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# About

# Advantech

The Global Trusted Brand of **ePlatform Services**



## ***Your ePlatform Partner***

Advantech, the leading ePlatform service provider, has been an innovator in the development and manufacturing of high-quality, high-performance ePlatform services in the industrial computing & automation markets since 1983. For over twenty years, Advantech has been refining what is possible in the ePlatform services market, offering comprehensive system integration hardware, software, customer-driven service, global logistics support, and an industry leading front as well as back office e-business infrastructure. Advantech is helping system integrator partners add value to their solutions and services.

## ***Mission & Focus***

### ***Empower Innovations in the Connected eWorld***

Solution integrators all over the world are constantly developing new applications and innovative products. Advantech's mission is to empower this innovation by providing "ePlatform Services", creating a broad spectrum of quality products and services that are suitable for a wide range of applications.



## ***The Global Leading ePlatform Service Provider for eWorld Integrators***

By positioning itself as an "ePlatform Service Provider", Advantech has and will continue to make a name for itself as the world's leading brand in Embedded & Applied Computing, Network Appliance and eAutomation & Certified Peripherals. Advantech is a name that is recognized in a multitude of existing and emerging business segments, such as environment and facility monitoring, network communications, computer telephony, POS/POI, e-factory/automation, medical and home automation.



## Product & Market Coverage

Advantech's product range covers thousands of products:

- Embedded Computing
- RISC Embedded Computing
- Applied Panel Computing
- Certified Peripheral
- Industrial Computer
- Network Appliance
- CompactPCI
- Digital Video Platform
- eAutomation
- Industrial I/O
- Industrial Communication
- Human Machine Interface

Our solutions cover a variety of industries:

- eHome/Smart Home Networking
- Medical/eHealthcare
- Mobile Computing
- System on Chip (SoC)
- System on Module (SOM)
- Factory Automation
- Facility Management Systems
- Machine Automation
- Environment Monitoring Systems
- Intelligent Transportation Systems
- Telecommunication

## Strength and Service

### A Global Service Network

Advantech has more than 2,000 employees worldwide and a wide global reach with teams in seven geographic regions: North America, Europe, China, Taiwan, Japan, South Asia-Pacific (including Korea) and numerous emerging markets such as Eastern Europe and Latin America. Our products are distributed and serviced by an extensive global network of offices and an industry leading ebusiness infrastructure designed to provide fast and responsive service that benefits customers, no matter their location. Advantech is well positioned to be the partner of choice in the connected eWorld.

### The ERA of Customization Services

With increasing customer demand for flexible designs and tailor-made manufacturing services, Advantech's Design-to-Order Service (DTOS) and Build-to-Order Service (BTOS) are putting Advantech ahead of the competition. Our customization services reduce customer engineering effort, speed product development and shorten time-to-market response. With localized support provided by regional service centers in Europe, the US, Asia and China, combined with fast online support, Advantech delivers seamless and cost saving services that meet stringent customization requirements.



## Advantech in Brief

Advantech Co., Ltd. (Taidex: 2395) is the global leading ePlatform service provider integrating web-based technology, computing platforms and customization services that empower the connected eWorld. Advantech cooperates closely with system integrators to help them add value to their solutions to meet demanding requirements in a wide array of industries. Advantech delivers more than a thousand products and solutions under several categories: Embedded & Applied Computing, Network Appliance, Industrial Computing, and eAutomation. With the combined talent of more than 2,000 people, Advantech operates an extensive support, sales and marketing network in 16 countries and 28 major cities to deliver fast time-to-market services to our worldwide customers.

Your ePlatform Partner





# Advantech Online

**Advantech Home page** — [www.advantech.com](http://www.advantech.com)

Advantech's corporate website is designed to provide you with rich, valuable, interactive information. From our corporate portal, you can choose from a wide variety of resources that are integrated with content from different sites, covering categories such as

- Products
- Solutions
- Services & Support
- Worldwide Contacts
- eStore
- Business Units & Product Divisions

## Partner Zone

[partner.advantech.com.tw/](http://partner.advantech.com.tw/)

Advantech Partner Zone, a partner portal, enables worldwide partners to access real-time business information.

Major functions:

- Partner Program & Management
- Product, Sales & Marketing Resource
- Partner Training
- Partner Tech Support & Online Service
- B2B Online Procurement

## Events & News

<http://www.advantech.com/eventsnews/>

Find out the latest worldwide Advantech news, events and seminars.

In 2004, Advantech has a series of global solution seminars and product showcases designed for local customers. This year, "eAutomation Solutions" and "Embedded & Applied Computing Solutions" will be our business focuses. Together with our local solution partners, we will share successful project experiences, solutions, and applications for vertical market development.







## eService & Support

[service.advantech.com/eservice](http://service.advantech.com/eservice)

### Download Area

- BIOS
- Datasheets
- Drivers
- Manuals
- Utilities

### Support Area

- FAQ
- Specifications
- Troubleshoot
- Certificates & Testing Report
- RMA Service



## Personalization Service — MyAdvantech.com

Personalization is the ability of the Web site to match retrieved information content to a user's profile. Advantech has designed a user friendly system whereby content can be set explicitly by the user. It will provide you the following benefits:

- Personalize your Advantech.com content
- Subscribe to Advantech eNewsletters
- Request Advantech Product Catalogs Online
- Find your local support and contact for Advantech services
- View new product releases relevant to you
- Get access to your local Advantech eStore
- Receive eMail notices for Advantech seminars and events



## Online Shopping — eStore

Advantech has developed an online shopping platform to serve customers in North America, while a worldwide price quotation service will become available soon. In the current eStore, customers can place online orders 24 hours a day, 7 days a week. Through the Internet, we are able to lower operation costs while still giving our customers the same high-quality products and services as traditional channels. With secure payment guaranteed, customers are able to enjoy online purchasing with complete confidence. The eStore provides the customer with an easier, friendlier interface, and our product pages now more closely resemble those of the main corporate website, thus reducing any potential confusion on the part of the customer. Personalization and support links will bring added benefits and value to our customers as well.



# Industrial Computer Division

## Total Solutions for Industrial Computing Platforms

Advantech provides total solutions for Industrial Computing Platforms that satisfy any demand for applied computing. With industry proven solutions and experience accumulated over the past 20 years, all of our products are designed with exceptional features like longevity, revision control, scalability, reliability, and intelligent system management. Our full range of product offerings include Industrial ATX motherboards, full-size single board computers, backplanes, and VGA cards as well as chassis, so customers can choose the exact platforms for their specific application. Advantech provides multiple form factors such as PICMG 1.0 CPU cards and ATX motherboards, along with VGA cards and a full range of 1U to 7U rackmount and wallmount chassis. With a competitive and wide range of product offerings, Advantech helps our diverse customers reduce their time-to-market by using the latest computing technologies.

### Standardization

Advantech provides wide selection of standards-based single board computers, motherboards, and chassis. The standardized form factor, dimensions, pin assignments, and I/O ports ensure inter-compatibility and thus provide the most flexible system configurations. Customers can freely choose products with specific computing performance and expansion slots, together with chassis and power supply units to meet their exact application needs without compatibility concerns.

### Longevity

Advantech Industrial Computing platforms are designed with longevity as the major concern. We select only stable components with long life supply to design our products. All products have a long life cycle of at least 3 ~ 5 years. Product longevity greatly reduces customers' costly engineering efforts on new components and re-approval.

### Revision Control

Advantech performs intensive design verification tests to ensure the best design quality. Under strict revision control, engineering changes are kept as few as possible during the whole of the product's life cycle. Stable product offerings reduce risk caused by multiple product changes.

### Scalability

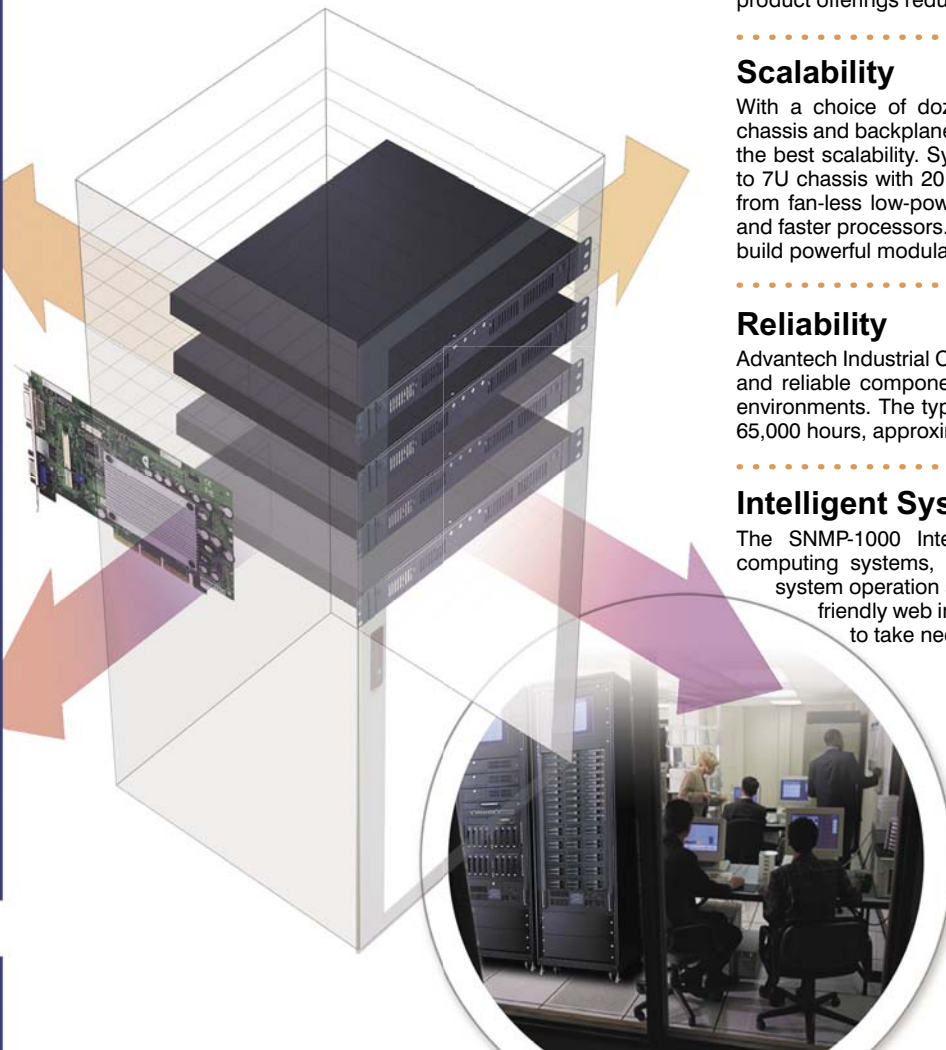
With a choice of dozens of single board computers, motherboards, chassis and backplanes, Advantech Industrial Computing Platforms offer the best scalability. System sizes are available from 1U slim chassis up to 7U chassis with 20 expansion slots. Computing performance ranges from fan-less low-power computing engines up to cutting-edge 3 GHz and faster processors. The high scalability enables system integrators to build powerful modular solutions.

### Reliability

Advantech Industrial Computing Platforms are designed with high quality and reliable components that allow continuous operation under harsh environments. The typical MTBF (mean time before failure) is 50,000 ~ 65,000 hours, approximately 6 ~ 7 years.

### Intelligent System Management

The SNMP-1000 Intelligent System Manager is designed for our computing systems, allowing users to remotely monitor and control system operation status via a network with SNMP protocol or a user-friendly web interface. It can notify users through e-mail or pager to take necessary action if the system operates abnormally.





# Industrial Computing Platforms

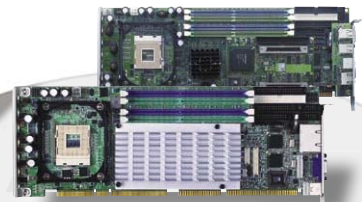
## Industrial Motherboards

With popular ATX form factor, Advantech's Industrial grade motherboards provide an ideal solution for customers who are using commercial off-the-shelf products but require industrial features such as longevity, reliability, and manageability. Advantech's Industrial Motherboards are designed with system compatibility considerations and they use the same connector naming rules, and pin definitions as full-sized CPU cards, allowing for a seamless upgrade path to single board computers for more flexibility and expandability.



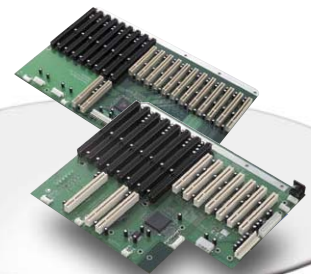
## Full-sized CPU Cards

Advantech has built a prominent reputation as leader in the edge-connected single board computer industry for years. Complying with PICMG 1.0 standards, our full-sized single board computers are the most flexible solution for industrial applications. With complete product offerings and system solutions, Advantech's full-sized single board computers have been successfully used in many different applications world wide, such as industrial automation, computer telephony, transportation, military, and environmental monitoring.



## Passive Backplanes

Advantech provides a wide choice of backplanes to fulfill any requirements for expansion slots for single board computers. Ranging from 4 slots up to 20 slots, and butterfly types for 1U/2U rackmount chassis, the backplanes allow optimized system configurations with flexible combinations of 64-bit, 32-bit PCI, and ISA slots. For those specific applications where our existing products cannot exactly fit, our Design to Order Service provides a low-cost yet professional design service for tailor-made backplanes to meet expansion requirements within a short design cycle.



## Industrial Computer Chassis

Advantech provides various fault-resilient rackmount and wallmount industrial computer chassis designed for mission-critical, non-stop applications. Supporting both ATX motherboards and PICMG single board computers, Advantech IPC chassis provide customers with a more complete selection pool to assist their decision making. Most chassis can be equipped with a redundant power supply and feature alarm notification of system malfunctions. Each IPC chassis is CE and UL approved. All these advantages make Advantech IPC chassis the best choice for price, performance, and total cost of ownership.





# BTOS Build To Order Service

## Build Your own system with Our Special Assembly Service

With our standard product lines and form factors, Advantech Industrial Computer Division (ICD) provides a BTOS (Build To Order Service) to offer our customers a superior customized assembly service. BTOS offers a simple configuration, user-friendly order status tracking, and RMA service. BTOS is an ideal combination for results-driven customers, sales people, and OP (Order Processing) professionals seeking to save time and finish projects under budget. In addition to offering a wide range of industrial-grade hardware, we also provide our customers with the best pricing and latest technology for features they really want.



### ● 98@2 Policy

We claim a 98@2 policy, which means 98% of the orders can be finished in 2 days.

1st day - place an order

2nd day - production of finished goods → hardware and software compatibility testing services → ship

• This does NOT include transportation/delivery time.

### ● Global Operation with a Local Touch

With four regional service and customization centers worldwide (US, Europe, China and Taiwan), we are always ready to answer the customers questions and provide the service they need.

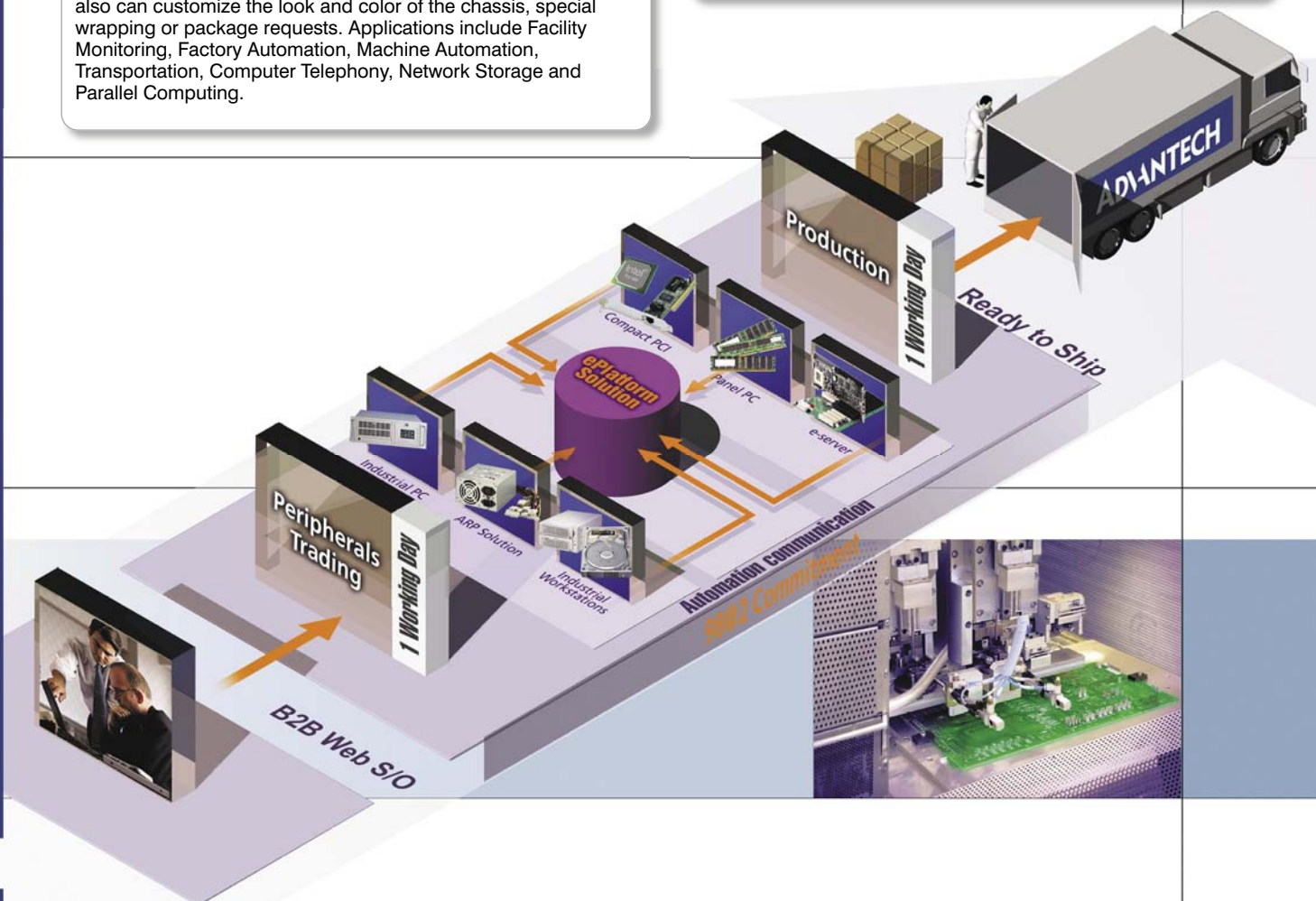
### ● System Integration Services

Our system integration services apply to various industries, under the open-frame structure, customers are free to request different sized-chassis, backplanes, power supplies, CPUs, DRAM modules, HDDs, LAN cards, and RAID as well as installing specific software.

In addition to the standard system integration services, we also can customize the look and color of the chassis, special wrapping or package requests. Applications include Facility Monitoring, Factory Automation, Machine Automation, Transportation, Computer Telephony, Network Storage and Parallel Computing.

### ● Global eRMA Services

By integrating with both front and back-end systems: ERP, SCM, and CRM, we empower the customers by allowing them to trace orders and shipping status, or view RMA information instantly via our eService & Support web page.



## Design Your own Platform Easily With DTOS

Advantech Industrial Computer Division (ICD) offers a special Design-to-Order Service (DTOS) based on our standard product lines that enables you to customize your projects by leveraging our leading technology. With over 20 years of experience designing and manufacturing mission-critical computing systems, ICD has the capability and know-how to create custom designs or simply modify our existing designs so your exact project specifications can be met. Get to the market faster and reduce your business investment by outsourcing your chassis and board designs through our DTOS.

### DTOS for Boards, Chassis and Backplanes

#### Concept

Our experienced staff will work with your team to quickly turn your requirements into a product concept and shorten your time to market.

#### Specifications

With the conceptual design approved, the overall product specifications will be defined.

#### Design

From the specifications, we will implement resources to manage each step of the design process. Each phase will be documented under ISO-9001 guidelines to ensure complete tracability through the whole process and into production.

#### Prototype

Prototype designs are created and delivered to the customer for evaluation.

#### Design Verification Testing

The prototypes are evaluated and plans are made (if necessary) for any required changes.

#### NRE

After all the initial steps of the design are approved, the Non Recurring Engineering (NRE) charge will be confirmed and become payable to start the next stage of development.

#### Compliance Testing

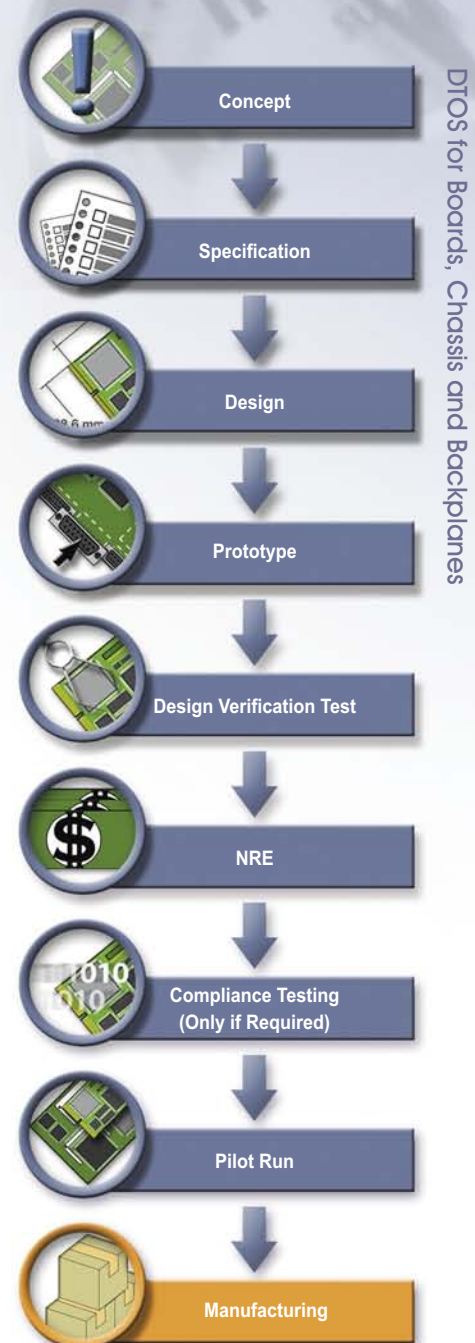
If your design requires regulatory approvals, Advantech ICD has access to numerous testing labs and can provide the compliance testing your project requires to meet the approvals in your market.

#### Pilot Run

This is the initial batch run of production quality samples for your project. These products will become the standard by which volume manufacturing is produced.

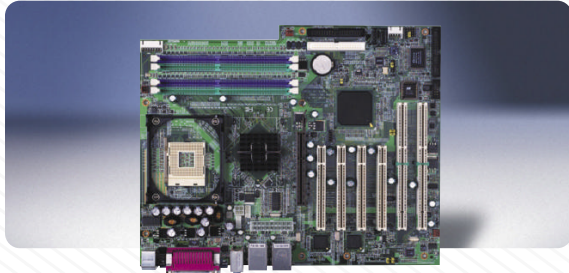
#### Manufacturing

You are free to choose the Advantech ICD manufacturing facility that best fits your project needs. Whether your quantity is small or large we have a facility that is right for you.



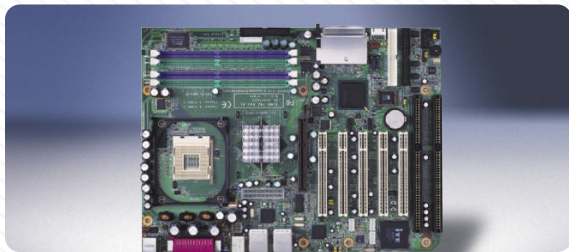
# New Product Showcase

## Industrial Motherboards



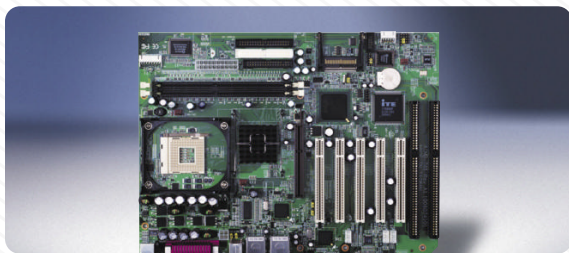
### ▶ AIMB-744 Page 1-2

- Socket 478 Pentium 4/Celeron up to 3.2/2.4 MHz
- Supports up to 2 SerialATA devices
- Supports Dual Channel DDR 400 SDRAM
- Intel® 875P chipset 400/533/800 MHz FSB
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 4 USB 2.0 ports
- AGP slot / 2 PCI-X slots / 4 PCI slots



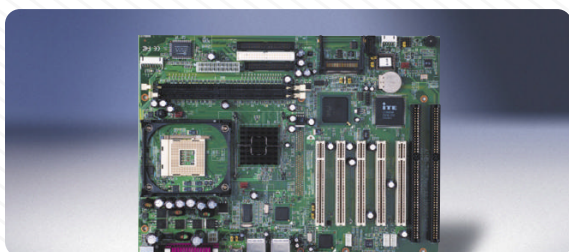
### ▶ AIMB-742 Page 1-4

- Socket 478 Pentium 4/Celeron up to 3.2/2.4 MHz
- Supports up to 2 SerialATA devices
- Supports dual channel DDR 400 SDRAM
- Intel® 865G chipset 400/533/800 MHz FSB
- Onboard AGP 8X slot
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 8 USB 2.0 ports
- 1 AGP slot / 2 ISA slots / 5 PCI slots (1 shared with ISA slot)



### ▶ AIMB-741 Page 1-6

- Socket 478 Pentium 4/Celeron up to 3.06/2.4 MHz
- Intel® 845E chipset 400/533 MHz FSB
- Onboard AGP 4X slot
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- 1 AGP slot / 2 ISA slots / 5 PCI slots (1 shared with ISA slot)



### ▶ AIMB-740 Page 1-8

- Socket 478 Pentium 4/Celeron up to 3.06/2.4 MHz
- Intel® 845GV chipset 400/533 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- 2 ISA slots / 5 PCI slots (1 shared with ISA slot)

## Industrial Motherboard Chassis



### ▶ ACP-1000MB Page 3-2

- Space-saving 1U high rackmount
- System alarm notification by front viewable LED indicators
- Front-accessible USB and PS/2
- Easy installation disk drive bay to hold one slim CD-ROM, one 3.5" FDD and one internal 3.5" HDD
- Supports one full-length PCI 32-bit card for expansion
- Streamlined & efficient cooling design with three fans in the front side and one fan in the rear side



**ACP-2000MB** Page 3-4

- Compact 2U high rackmount chassis supports ATX M/B form factor
- System alarm notification by front viewable LED indicators
- Front-accessible USB and PS/2
- Easy installation disk drive bay to hold one 5.25" drive, one 3.5" FDD and two internal 3.5" HDD
- One riser card supports three full-length PCI cards for expansion
- Supports 300W ATX PFC power supply



**ACP-4000MB** Page 3-6

- Front-accessible USB and PS/2 keyboard
- Visible alarm notification improves system availability
- Advanced cooling system with two system fans, optimally placed, to cool system's key components
- Shock-resistant disk drive bay holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports 300 W ATX PFC PS/2 power supply and 300 W ATX PFC redundant power supply



**IPC-610MB-H** Page 3-8

- Equipped with 300 W ATX PFC PS/2 power supply
- Easy installation front accessible disk drive bays to hold three half-height drives, one 3.5" FDD and one internal 3.5" disk drive
- Front accessible USB & PS/2 keyboard I/O interface
- Front viewable system LED
- Designed to withstand environmental extremes, such as shock, vibration and high temperature



**IPC-610MB-L** Page 3-10

- User-friendly and front-accessible filter for system maintenance
- Support 250/300 W ATX PFC PS/2 power supply
- Front visible power and HDD LED alarm notification
- Designed to withstand environmental extremes, such as shock, vibration and high temperature
- Shock-resistant disk drive bays holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports both PS/2 single and redundant power supply



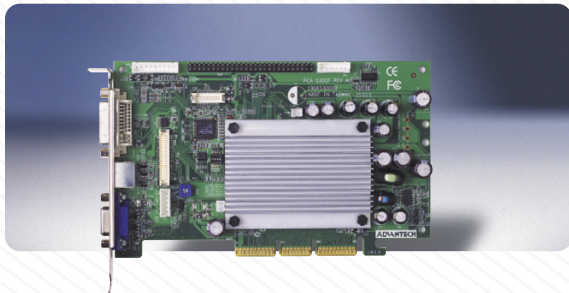
**IPC-510MB** Page 3-12

- Equipped with 250/300 W ATX PFC PS/2 power supply
- Easy to install front accessible disk drive bays to hold three half-height drives, one 3.5" FDD and one internal 3.5" disk drive
- Front accessible USB & PS/2 keyboard connector for data transfer
- Designed to withstand environmental extremes, such as shock, vibration and high temperature



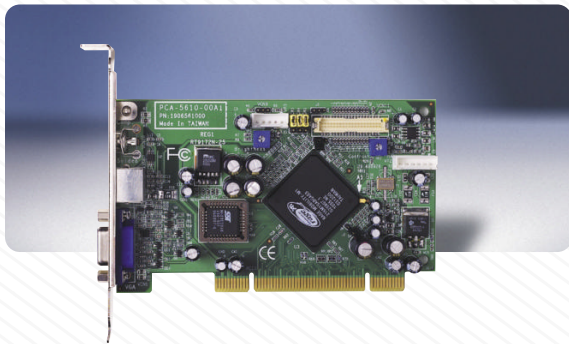
# New Product Showcase

## Industrial VGA Cards



### PCA-5640 Page 2-1

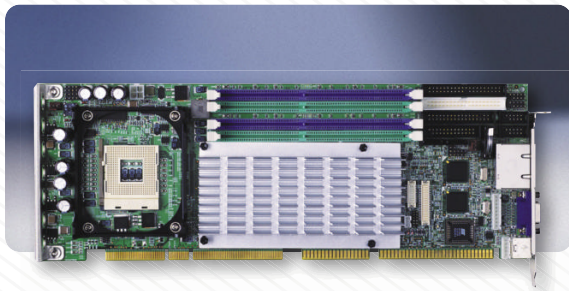
- Industrial VGA Card with long life support
- On-Chip 64MB DDR SDRAM
- Support DirectX 9.0, OpenGL and Direct 3D
- Support dual CRT and dual DVI outputs
- Support dual monitor and video output



### PCA-5610 Page 2-2

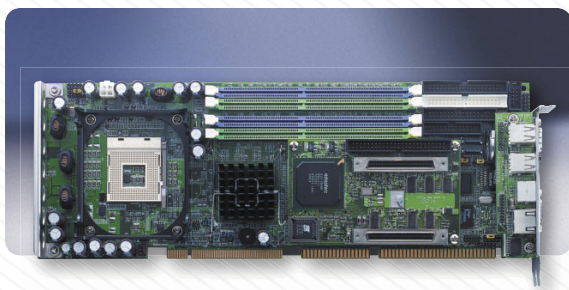
- Industrial VGA Card with long life support
- On-Chip 8MB SDRAM
- Support dual independent displays and triple-DAC
- Support TV-Out and LVDS output
- Working under 3.3V/ 5V

## Full-sized CPU Cards



### PCA-6188 Page 4-2

- Supports up to 2 SerialATA devices
- Supports Dual Channel DDR 400 SDRAM
- Intel® 875P chipset 400/533/800 MHz FSB
- Onboard AGP 8X ATI Mobility Radeon 9600 Pro VGA controller, 64MB DDR SDRAM integrated
- Supports dual display, LVDS and DVI
- 64-bit, 66MHz PCI-X
- Supports 10/100/1000Base-T Ethernet



### PCA-6187 Page 4-4

- Supports up to 2 SerialATA devices
- Supports Dual Channel DDR 400 SDRAM
- Onboard Adaptec AIC-7899 dual channel Ultra 160 SCSI up to 160MB/Sec.
- Intel® 865G chipset 400/533/800 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet

# Industrial Motherboards



AIMB-744



AIMB-742



AIMB-741



AIMB-740

## Selection Guide

Specification		Pentium® 4/Celeron® Industrial ATX Motherboard			
		AIMB-744	AIMB-742	AIMB-741	AIMB-740
Processor System	CPU	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478
	Max. Speed	3.2 GHz/2.4 GHz	3.2 GHz/2.4 GHz	3.06 GHz/2.4 GHz	3.06 GHz / 2.4 GHz
	L2 Cache (Depend on CPU)	256,512 KB / 128 KB	256,512 KB / 128 KB	256,512 KB / 128 KB	256,512 KB / 128 KB
	Chipset	Intel 875P + 6300ESB	Intel 865G + ICH5	Intel 845E + ICH4	Intel 845GV + ICH4
Bus	BIOS	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH
	FSB	400/533/800 MHz	400/533/800 MHz	400/533 MHz	400/533 MHz
	AGP	1 (AGP 8X)	1 (AGP 8X)	1 (AGP 4X)	N/A
	PCI	2 (PCI-X 64-bit /66MHz) 4 (PCI 32-bit /33MHz)	5 (32-bit / 33 MHz)	5 (32-bit / 33 MHz)	5 (32-bit / 33 MHz)
Graphic	ISA	N/A	2	2	2
	Controller	N/A	Chipset integrated	N/A	Chipset integrated
	VRAM		Share system memory up to 64 MB		Share system memory up to 64 MB
LCD	N/A		N/A		
Ethernet	Interface	10/100/1000Base-T	10/100/1000Base-T or 10/100Base-T	10/100/1000Base-T or 10/100Base-T	10/100/1000Base-T or 10/100Base-T
	Controller	Intel 82547/82541 (GbE)	Intel 82547/82541 (GbE), Intel 82562/82551 (FE)	Intel 82541 (GbE), Intel 82562/82551 (FE)	Intel 82541 (GbE), Intel 82562/82551 (FE)
	Connector	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2
	Disable from BIOS	Yes	Yes	Yes	Yes
Memory	Technology	Dual channel DDR 266/333/400 SDRAM support ECC	Dual channel DDR 266/333/400 SDRAM	DDR 200/266 SDRAM, support ECC	DDR 200/266/333 SDRAM
	Max. Capacity	4 GB	4 GB	2 GB	2 GB
	Socket	184-pin DIMM x4	184-pin DIMM x4	184-pin DIMM x2	184-pin DIMM x2
SATA	Max. Data Transfer Rate	150 MB/Sec.	150 MB/Sec.	N/A	N/A
	Channel	2	2		
EIDE	Mode	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33
	Channel	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)
I/O Interface	VGA	N/A	1	N/A	1
	USB	4 (USB 2.0 compliant)	Max: 8 (USB 2.0 compliant)	Max: 6 (USB 2.0 compliant)	Max: 6 (USB 2.0 compliant)
	Serial	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)
	Parallel	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)
	FDD	1	1	1	1
	PS/2	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)	2 (keyboard and mouse)
	LAN	1 (for L, G versions) 2 (for G2 version)	1 (for VE, VG versions) 2 (for E2, G2 versions)	1 (for E, G versions) 2 (for E2 version)	1 (for VE, VG versions) 2 (for E2 version)
	OBS (Hardware Monitor)	Yes	Yes	Yes	Yes
	Audio	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In	Line-Out, Mic-In
	Watchdog Timer	Output	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset
Interval		Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min
Miscellaneous	Advantech SNMP-1000	Yes	Yes	Yes	Yes
	Solid State Disk	N/A	Compact Flash socket (optional)	Compact Flash socket (optional)	Compact Flash socket (optional)
Reference Page		1-2	1-4	1-6	1-8

Industrial  
Motherboard **1**

Industrial  
VGA Card **2**

Industrial  
Motherboard  
Chassis **3**

Full-sized  
CPU Cards **4**

Industrial  
Computer  
Chassis **5**

Industrial  
Computer  
Peripherals **6**



# AIMB-744

**Socket 478 Pentium® 4/Celeron®  
Industrial ATX Motherboard with  
64-bit PCI-X/AGP/Dual Gigabit LAN  
(400/533/800 MHz FSB)**

**NEW**



## Features

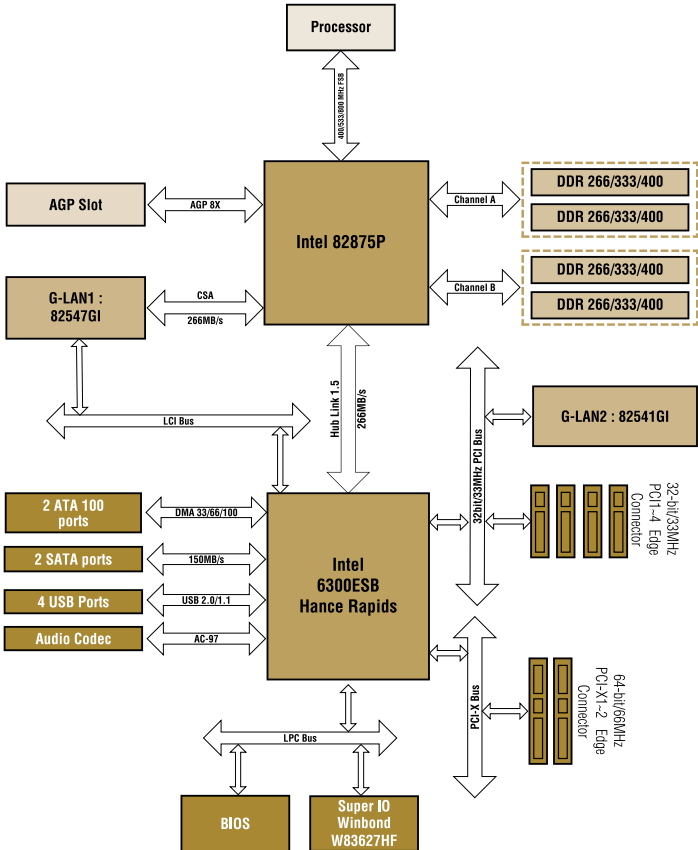
- Industrial grade motherboard with long life support
- Supports up to 2 Serial-ATA devices
- Supports Dual Channel DDR 400 SDRAM
- Intel® 875P chipset 400/533/800 MHz FSB
- 64-bit, 66MHz PCI-X
- Supports 10/100/1000Base-T Ethernet
- 4 USB 2.0 ports
- CMOS automatic backup & restore prevents accidental loss of BIOS setup
- 1 AGP slot / 2 PCI-X slots / 4 PCI slots
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

CE FCC

## Specifications

Processor System	CPU (0.13 & 0.09 micron)	Intel Pentium 4	Intel Celeron	
	Max. Speed	3.06 GHz (533 FSB) 3.2 GHz (800 FSB) * Vcore 1.75V CPU (Willamete) Cache512/256 KB128 not supported	2.4 GHz	
	L2 Cache	512/256 KB	128 KB	
	Chipset	Intel® 875P + 6300ESB		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	400/533/800 MHz		
	AGP	AGP 3.0 with 4X and 8X, 0.8 V and 1.5 V, 1 slot		
	PCI	32-bit/33 MHz, 4 slots		
	PCI-X	64-bit/66 MHz, 2 slots		
Memory	Technology	Dual Channel DDR266/333/400 SDRAM with ECC support		
	Max. Capacity	4 GB		
	Socket	184-pin DIMM x 4		
Ethernet	Interface	10/100/1000Base-T		
	Controller	LAN 1: Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82541GI (Gigabit)		
	Connector	RJ-45 x 2		
SATA	Max. Data Transfer Rate	150MB/Sec.		
	Channel	2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	4 (USB 2.0 compliant)		
	Audio	2 (LINE-Out and MIC-In)		
	Serial	4 (RS-232, 2 ports and 2 onboard pin headers)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	2 (Keyboard and Mouse)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1~255 sec.		
Power Requirement	Typical	Pentium 4 3.2 GHz, 4 GB DDR 266/333/400 SDRAM		
		+3.3 V	+5 V	+12 V
		8.13 A	0.57 A	5.29 A
Environment	Temperature	Operating	Non-Operating	
		0~60 °C (32~140F), depends on CPU's speed	-20~70 °C (-40 ~ 158 °F)	
Physical	Dimensions	304.8 x 243.8 mm (12" x 9.6")		

Block Diagram



Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
AIMB-744L-00A1	--	--
AIMB-744G-00A1	--	Single
AIMB-744G2-00A1	--	Dual

Packing List

▪ FDD cable	x1	1700340640
▪ IDE HDD cable	x2	1701400452
▪ Serial ATA HDD data cable	x2	1700071000
▪ Serial ATA HDD power cable	x2	1703150102
▪ ATX 12V power converter cable	x1	170304015K
▪ COM port cable kit	x1	1701090401
▪ Jumper pack	x1	9689000068
▪ I/O port bracket	x1	1962015680
▪ Startup manual	x1	--
▪ Utility CD	x1	--

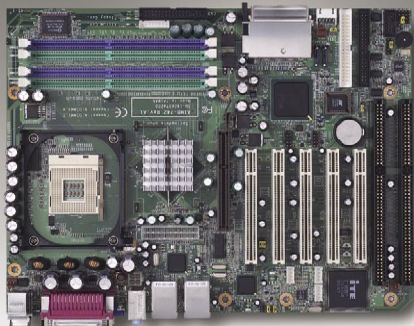
Accessory Options

▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis	1759214200
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# AIMB-742

**Socket 478 Pentium® 4/Celeron®  
Industrial ATX Motherboard with AGP/  
Dual Gigabit LAN (400/533/800 MHz FSB)**

**NEW**



## Features

- Industrial grade motherboard
- Supports up to 2 SerialATA devices
- Supports dual channel DDR 400 SDRAM
- Intel® 865G chipset 400/533/800 MHz FSB
- Onboard AGP 8X slot
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 8 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- 1 AGP slot / 2 ISA slots / 5 PCI slots (1 shared with ISA slot)
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

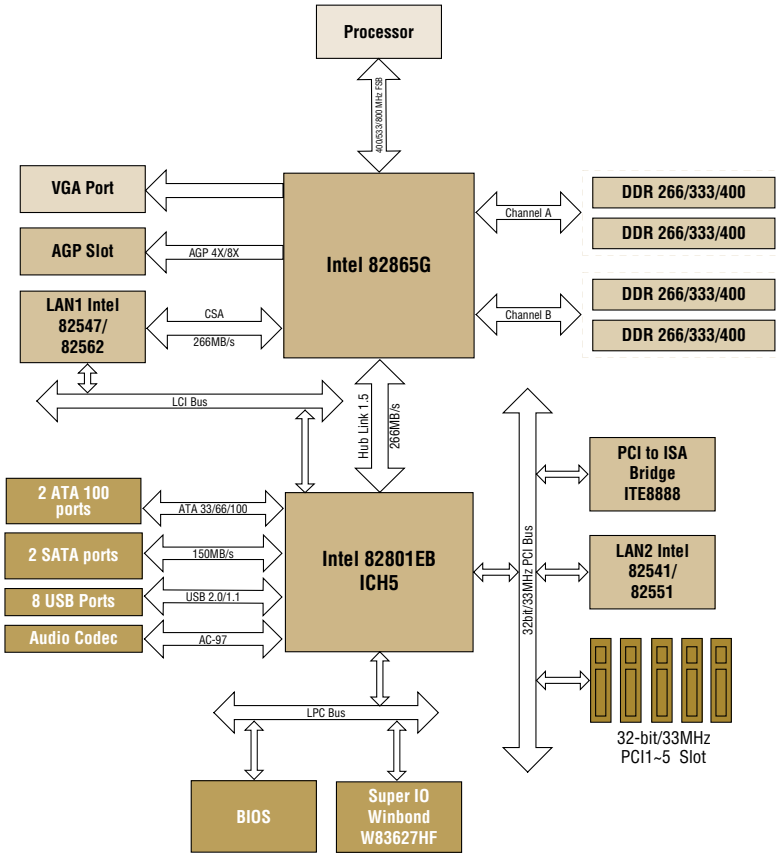
CE FCC

## Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron	
	Max. Speed	3.06 GHz (533 FSB), 3.2 GHz (800 FSB) * Vcore 1.75V CPU (Willamete) Cache512/256 KB128KB not supported	2.4 GHz	
	L2 Cache	512/256 KB	128KB	
	Chipset	Intel® 865G + ICH4		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	400/533/800 MHz		
	AGP	AGP 3.0 with 4X and 8X, 0.8V and 1.5V, 1 slot		
	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)		
	ISA	16-bit/8 MHz, 2 slots		
	Memory	Technology	dual channel DDR266/333/400 SDRAM	
Max. Capacity		4 GB		
Socket		184-pin DIMM x 4		
Graphic	Controller	Chipset integrated VGA controller		
	VRAM	Dynamically shared system memory up to 64 MB		
Ethernet	Interface	10/100Base-T or 10/100/1000Base-T		
	Controller	LAN 1: Intel 82562EZ (FE); Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82551QM (FE);82541GI (Gigabit)		
	Connector	RJ-45 x 2		
SATA	Max. Data Transfer Rate	150MB/Sec		
	Channel	2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	VGA	1		
	USB	Max. 8 (USB 2.0 compliant), 4 ports on board		
	Audio	2 (LINE-Out and MIC-In)		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	2 (Keyboard and Mouse)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1~255 sec.		
Miscellaneous	Solid State Disk	1 Type I/II CompactFlash socket (Optional, upon request)		
Power Requirement	Typical	Pentium 4 3.2 GHz, 4 GB DDR 266/333/400 SDRAM		
		+3.3 V	+5 V	+12 V
		9.26 A	0.43 A	5.42 A
Environment	Temperature	Operating	Non-Operating	
		0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	-20 ~ 70 °C (-4 ~ 158 °F)	
Physical	Dimensions	304.8 x 228.6 mm (12" x 9")		



Block Diagram



Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
AIMB-742VE-00A1	Single	--
AIMB-742E2-00A1	Dual	--
AIMB-742VG-00A1	--	Single
AIMB-742G2-00A1	--	Dual

Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Serial ATA HDD data cable	X 2	1700071000
▪ Serial ATA HDD power cable	X 2	1703150102
▪ ATX 12V power converter cable	X 1	170304015K
▪ COM port cable kit	X 1	1701090401
▪ Jumper pack	X 1	9689000068
▪ I/O port bracket	X 1	1962015680
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

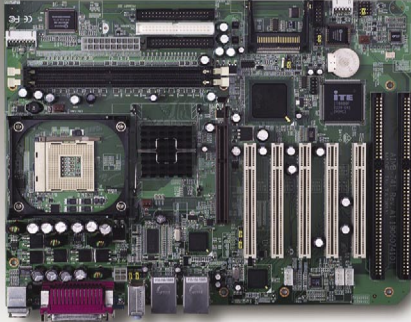
Accessory Options

▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis	1759214200
--	------------

# AIMB-741

## Socket 478 Pentium® 4/Celeron® Industrial ATX Motherboard with AGP/ Dual LAN (400/533 MHz FSB)

**NEW**



### Features

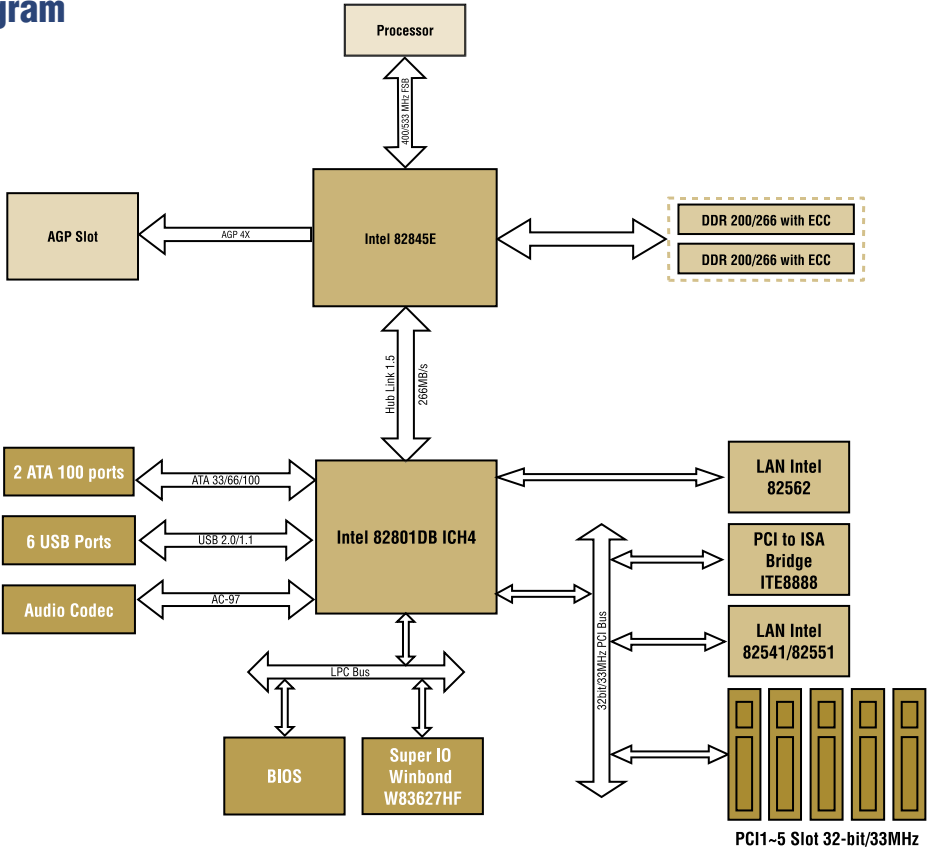
- Industrial grade motherboard with long life support
- Socket 478 Pentium 4/Celeron up to 3.06/2.4 GHz
- Intel® 845E chipset 400/533 MHz FSB
- Onboard AGP 4X slot
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- 1 AGP slot / 2 ISA slots / 5 PCI slots (1 shared with ISA slot)
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

CE FCC

### Specifications

Processor System	CPU (0.13 & 0.09 micron)	Intel Pentium 4	Intel Celeron	
	Max. Speed	3.06 GHz (533 FSB)	2.4 GHz	
	L2 Cache	512/256 KB	128KB	
	Chipset	Intel® 845E + ICH4		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	400/533 MHz		
	AGP	AGP 2.0 with 2X, and 4X, 1.5V only, 1 slot		
	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)		
	ISA	16-bit/8 MHz, 2 slots		
Memory	Technology	DDR 200/266 SDRAM with ECC support		
	Max. Capacity	2 GB		
	Socket	184-pin DIMM x 2		
Ethernet	Interface	10/100Base-T or 10/100/1000Base-T		
	Controller	LAN 1: Intel 82562 (FE); Intel 82541 (Gigabit) LAN 2: Intel 82551 (FE) (82541 upon request)		
	Connector	RJ-45 x 2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	Max. 6 (USB 2.0 compliant), 4 ports on board		
	Audio	2 (LINE-Out and MIC-In)		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	2 (Keyboard and Mouse)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1~255 sec.		
Miscellaneous	Solid State Disk	1 Type I/II CompactFlash socket (Optional, upon request)		
Power Requirement	Typical	Pentium 4 3.06 GHz, 2 GB DDR 200/266 SDRAM		
		+3.3 V	+5 V	+12 V
		5.95 A	0.86 A	4.52 A
Environment		Operating	Non-Operating	
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	-20 ~ 70 °C (-4 ~ 158 °F)	
Physical	Dimensions	304.8 x 228.6 mm (12" x 9")		

Block Diagram



Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
AIMB-741L-00A1	--	--
AIMB-741E-00A1	Single	--
AIMB-741E2-00A1	Dual	--
AIMB-741G-00A1	--	Single

Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ COM port cable kit	X 1	1701090401
▪ ATX 12V power converter cable	X 1	170304015K
▪ Jumper pack	X 1	9689000068
▪ I/O port bracket	X 1	1962015680
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

Accessory Options

▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis	1759214200
--	------------

# AIMB-740

## Socket 478 Pentium® 4/Celeron® Industrial ATX Motherboard with VGA/ Dual LAN (400/533 MHz FSB)

**NEW**



### Features

- Industrial grade motherboard with long life support
- Socket 478 Pentium 4/Celeron up to 3.06/2.4 GHz
- Intel® 845GV chipset 400/533 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- 2 ISA slots/ 5 PCI slots (1 shared with ISA slot)
- Compatible with Advantech's 1U, 2U, 4U, 5U and 7U chassis

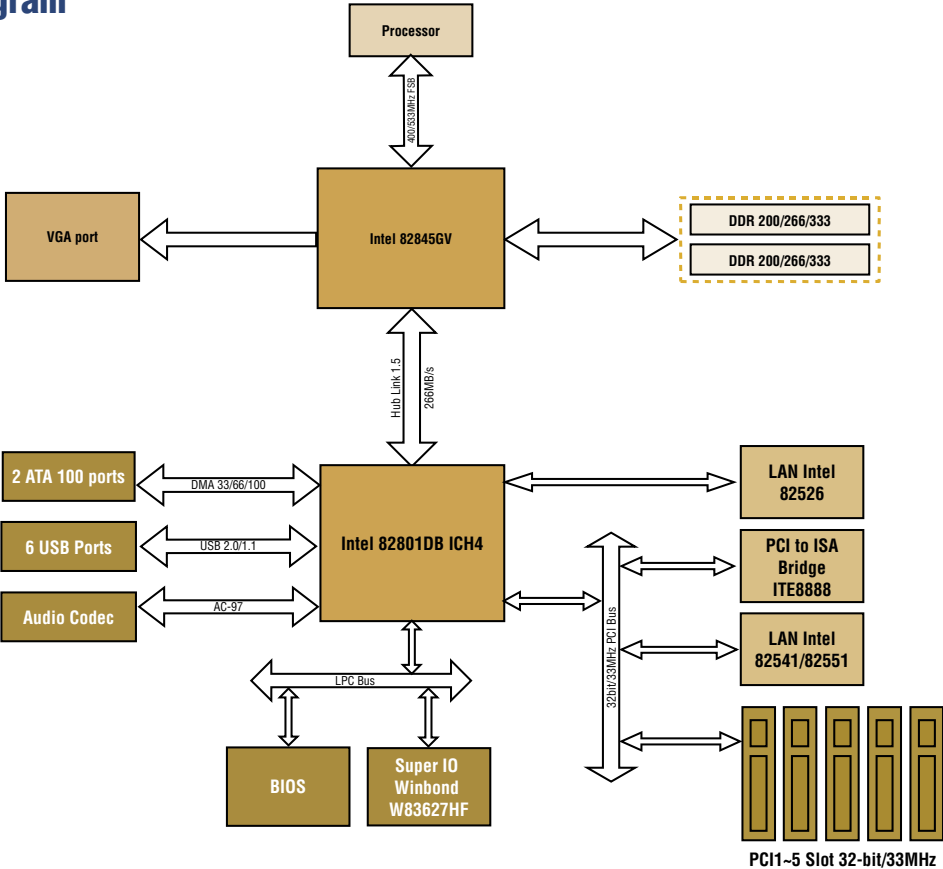
CE FCC

### Specifications

Processor System	CPU (0.13 & 0.09 micron)	Intel Pentium 4	Intel Celeron
	Max. Speed	3.06 GHz (533 FSB)	2.4 GHz
	L2 Cache	512/256 KB	128 KB
	Chipset	Intel 845GV	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	400/533 MHz	
	PCI	32-bit/33 MHz, 5 slots (1 shared with ISA slot)	
	ISA	16-bit/8 MHz, 2 slots	
Memory	Technology	DDR 200/266/333 SDRAM	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x 2	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Dynamically shared system memory 8-64 MB	
Ethernet	Interface	10/100Base-T or 10/100/1000Base-T	
	Controller	LAN 1: Intel 82562 (FE); Intel 82541 (Gigabit) LAN 2: Intel 82551 (FE) (82541 upon request)	
	Connector	RJ-45 x 2	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	VGA	1	
	USB	Max. 6 (USB 2.0 compliant), 4 ports on board	
	Audio	2 (LINE-Out and MIC-In)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	2 (Keyboard and Mouse)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec.	
Miscellaneous	Solid State Disk	1 Type I/II CompactFlash socket (Optional, upon request)	
	Typical	Pentium 4 3.06 GHz, 2 GB DDR 200/266 SDRAM	
Power Requirement		+3.3 V +5 V +12 V	
		4.23 A 1.35 A 4.17 A	
Environment		Operating	Non-Operating
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	304.8 x 228.6 mm (12" x 9")	



Block Diagram



Ordering Information

Part Number	VGA	Fast Ethernet LAN	Gigabit LAN
AIMB-740VE-00A1	V	Single	--
AIMB-740E2-00A1	V	Dual	--
AIMB-740VG-00A1	V	--	Single
AIMB-740V-00A1	V	--	--

Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ COM port cable kit	X 1	1701090401
▪ ATX 12V power converter cable	X 1	170304015K
▪ Jumper pack	X 1	9689000068
▪ I/O port bracket	X 1	1962015680
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

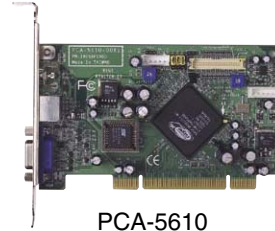
Accessory Options

▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis	1759214200
--	------------

# Industrial VGA Cards



PCA-5640



PCA-5610

## Selection Guide

Specification		Industrial VGA Card	
		PCA-5640	PCA-5610
Processor System	GPU	ATi Mobility Radeon 9600 Pro	ATi Rage Mobility M1
	Graphics Clock	300MHz	83MHz
Bus	PCI Interface	N/A	PCI 2.1
	AGP Interface	AGP 4X/8X	N/A
Memory	Memory Clock	400MHz	125MHz
	Memory Interface	128 Bit	64 Bit
	Memory Size	On-chip 64MB DDR SDRAM	On-chip 8MB SDRAM
Video Output	First CRT	Yes	Yes
	Second CRT	Yes	N/A
	TV-out	1 S-Video and optional 1 Composite	1 S-Video and optional 1 Composite
	First DVI	Yes	N/A
	Second DVI	Yes	N/A
	LVDS	Yes	1 (shared with TTL)
	Digital (TTL)	N/A	1 (shared with LVDS)
Dual Display Mode		Yes	Yes
Reference Page		2-1	2-2

# PCA-5640

## Industrial VGA Card with ATi Mobility™ Radeon 9600 Pro

**NEW**



CE FC

### Features

- Industrial VGA Card with long life support
- On-Chip 64MB DDR SDRAM
- Supports DirectX 9.0, OpenGL and Direct 3D
- Supports dual CRT and dual DVI outputs
- Supports dual monitor and video output

Industrial  
Motherboard **1**

Industrial  
VGA Card **2**

Industrial  
Motherboard  
Chassis **3**

Full-sized  
CPU Cards **4**

Industrial  
Computer  
Chassis **5**

Industrial  
Computer  
Peripherals **6**

### Specifications

Processor System	GPU (0.13 micron)	ATi Mobility Radeon 9600 Pro		
	Graphics Clock	300MHz		
Bus	AGP 3.0	AGP 4X/8X (1.5V signaling only)		
	Memory Clock	400MHz		
Memory	Memory Interface	128 Bit		
	Memory Size	On-Chip 64MB DDR SDRAM		
	CRT1	2048 x 1536, up to 200Hz vertical rate		
Video Output	CRT2	2048 x 1536, up to 200Hz vertical rate; shared with TV-Out		
	TV-Out	S-Video port and optional Composite port, support PAL and NTSC TV 1024 x 768 32bpp; support 800 x 600 and 16:9; shared with CRT2		
	DVI1	1600 x 1200@60Hz, 165MHz		
	DVI2	1600 x 1200@60Hz, 165MHz (optional)		
	LVDS	Dual 115MHz LVDS interface; 2048x1536 @ 60Hz		
	Display Mode	Dual Display	CRT, TV CRT, DVI CRT, LVDS TV, DVI TV, LVDS DVI, LVDS	
Power Requirement		+3.3 V TBD	+5 V TBD	+12 V TBD
Environment	Temperature	Operating 0 ~ 60 °C (32 ~ 140 °F)	Non-Operating -20 ~ 70 °C (-4 ~ 158 °F)	
	Physical	Dimensions	174 x 107 mm (6.85" x 4.2")	

### Ordering Information

Part Number	Descriptions
PCA-5640-00A1	Industrial VGA Card with ATi Mobility™ Radeon 9600 Pro

### Packing List

▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

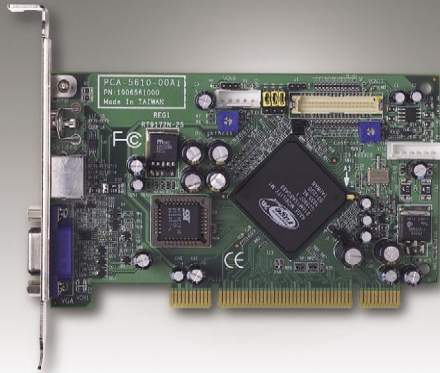
### Accessory Options

▪ S-VHS cable	X 1	1700000136
▪ CRT2 cable kit	X 1	1700000259

# PCA-5610

Industrial VGA Card with ATi Rage Mobility™ M1

**NEW**



## Features

- Industrial Grade PCI VGA Card with long life support
- On-Chip 8MB SDRAM
- Supports dual independent displays and triple-DAC
- Supports TV-Out, digital TTL and dual 112MHz LVDS interface
- Low power consumption working under 3.3V/5V

CE FC

## Specifications

Processor System	GPU (0.13 micron)	ATi Rage Mobility™ M1	
	Graphics Clock	83MHz	
Bus	PCI	PCI 2.1	
	Memory Clock	125MHz	
Memory	Memory Interface	64 Bit	
	Memory Size	On-Chip 8MB SDRAM	
	Video Output	1280 x 1024 24bpp	
Video Output	CRT	1280 x 1024 24bpp	
	TV-Out	S-Video port and optional Composite port 1024 x 768 24bpp, 800 x 600 and 16:9	
	LVDS	Dual 112MHz LVDS interface; 1280 x 1024 @ 60Hz and 800 x 600 @85Hz, shared with LCD Panel	
	Digital (TTL)	Color TFT panel up to 1280 x 1024, 24-bit per pixel, single pixel per clock; shared with LVDS	
Display Mode	Dual Display	CRT, LCD/LVDS TV, LCD/LVDS CRT, TV	
	Triple-DAC	CRT=TV, LCD/LVDS, LCD/LVDS=TV, CRT LCD/LVDS=CRT, TV	
Power Requirement	+3.3 V	+5 V	
	TBD	TBD	
Environment	Temperature	Operating 0 ~ 60 °C (32 ~ 140 °F)	Non-Operating -20 ~ 70 °C (-4 ~ 158 °F)
	Physical	Dimensions	132 x 80 mm (5.2" x 3.15")

## Ordering Information

Part Number	Descriptions
PCA-5610-00A1	Industrial VGA Card with ATi Rage Mobility™ M1

## Packing List

▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

## Accessory Options

▪ S-VHS cable	X 1	1700000136
▪ AV cable	X 1	1700000137



# Industrial Motherboard Chassis



ACP-1000MB



ACP-2000MB



ACP-4000MB



IPC-610MB-H

## Selection Guide

Specifications		Model Names	ACP-1000MB	ACP-2000MB	ACP-4000MB	IPC-610MB-H	IPC-610MB-L	IPC-510MB
Height (1U=1.75")			1U	2U	4U	4U	4U	4U
Drive bay	5.25"		-	1	3	3	3	3
	3.5"		2	3	1	1	1	2
	Slim CD-ROM		1	-	-	-	-	-
Cooling	No. of Fans		4	2	2	2	1	1
	CFM		10/Each	47/Each	84/Each	84/Each	84	84
Power	AC 110/220 V Input		200W ATX/PFC	300W ATX/PFC	300W ATX/PFC 300W ATX/PFC RPS	300W ATX/PFC 300W ATX/PFC RPS	250W ATX/PFC 300W ATX/PFC	250 W ATX/PFC 300 W ATX/PFC
System Fault Detection			Yes	Yes	Yes	No	No	No
Dimension (WxHxD)	(Mm)		482 x 44 x 450	482 x 88 x 450	482 x 177 x 480	482 x 177 x 480	482 x 177 x 480	482 x 177 x 450
	(Inches)		19 x 1.7 x 17.7	19 x 3.46 x 17.7	19 x 7 x 18.9	19 x 7 x 18.9	19 x 7 x 18.9	19 x 7 x 17.7
Weight	(Kg)		8	10.2	14	10.2	10.2	9.8
	(lb)		17.6	22.5	30.8	22.5	22.5	26.4
Reference Page			3-2	3-4	3-6	3-8	3-10	3-12

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

# ACP-1000MB

## 1U Rackmount Chassis for ATX Motherboard



### Features

- Space-saving 1U high rackmount, ideal building block for business expansion
- System alarm notification by front viewable LED indicators
- Front-accessible USB and PS/2
- Easy installation disk drive bay to hold one slim CD-ROM, one 3.5" FDD and one internal 3.5" HDD
- One riser card supports one full-length PCI 32-bit card for expansion
- Streamlined & efficient cooling design with three fans in the front side and one fan in the rear side

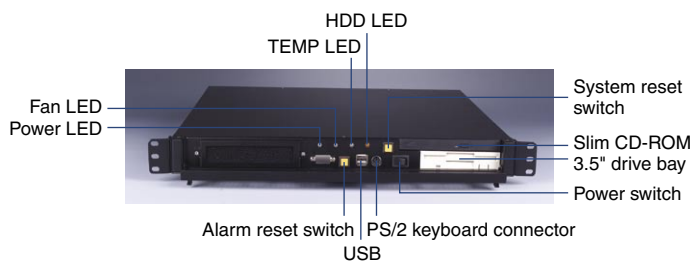
### Introduction

ACP-1000MB is a 1U-high rackmount industrial computer chassis that offers superior performance and scalability for customers who want to grow their business without increasing data center space. The chassis supports an ATX motherboard and one full-length PCI 32-bit card can be added via a riser. The front accessible USB and PS/2 keyboard interfaces allow users to connect with a wide range of peripheral devices for data transfer, backup and input.

ACP-1000MB has the best streamlined and efficient cooling system to keep it from over-heating, and the front accessible air filter makes it easy to replace. The viewable LED indicators on the front door shows the system alarm status, and users can easily reset the alarm through the alarm reset switch. All these outstanding features make the ultra-thin chassis the best choice for rack space optimization without sacrificing performance, expandability, serviceability, or manageability.

### Specifications

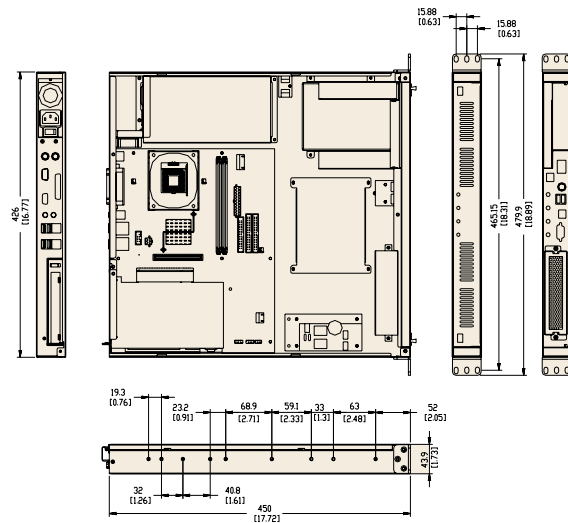
Drive Bay		Front-accessible	Internal
	Slim CD-ROM	1	
	3.5"	1	1
Cooling		Front	Rear
	Fan	3 (10 CFM/each)	1 (10 CFM/each)
	Air Filter	Yes (front-accessible)	
I/O interface	USB	2 (front-accessible)	
	PS/2	1 (keyboard, front-accessible)	
Miscellaneous	Rear panel	D-SUB 9-pin bracket	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10G (With 11 ms duration, half sine wave)	30G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82°F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 44 x 450 mm (19" x 1.7" x 17.8")	
	Weight	8 kg (17.6 lb)	
Compliance	Safety	CE compliant, UL/cUL approved	



200W ATX PFC P/S & rear panel of motherboard version

- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			
			Output	Mini-load	Safety	MTBF
1757000005 (ATX,PFC)	200 W	AC 100 ~ 240 V (Full-range)	+5 V @ 16 A +3.3 V @ 14 A +12 V @ 9 A -12 V @ 0.7 A -5 V @ 0.2 A +5 Vsb @ 1.5 A	+5 V @ 2 A +12 V @ 1 A -5 V @ 0.1 A -12 V @ 0.1 A +3.3 V @ 1 A +5 Vsb @ 0.1 A	CE EN61000-3-2 Class D/UL/cUL/TUV	100,000 hours @ 25 °C

## Ordering Information

Part Number	With Power Supply	With Riser Card	Mother Board	Regulation
ACP-1000MB-20Z	1757000005	9686000118	W/O for AIMB series only	CE/UL/cUL



Supports one full-length 32-bit PCI expansion

## Accessory Options

Part Number	Descriptions
SCD-ROM	Slim-type CD-ROM kit with slim 24X CD-ROM and 40-pin IDE connector
9684000014	3.5" FDD with Black Bezel
9689000535	1U slide rail
1759254100	Low profile PIII CPU cooler
1759214200	Low profile P4 CPU cooler up to 2.8G



Three filtered 10-CFM cooling fans on front-end



# ACP-2000MB

## 2U Rackmount Chassis for ATX Motherboard



### Features

- Compact 2U high rackmount chassis supports ATX M/B form factor, ideal building block for business expansion
- System alarm notification by front viewable LED indicators
- Front-accessible USB and PS/2
- Easy installation disk drive bay to hold one 5.25" drive, one 3.5" FDD and two internal 3.5" HDD
- One riser card supports three full-length PCI cards for expansion
- Supports 300W ATX PFC power supply
- System reset, system alarm reset and system power switch are behind the door

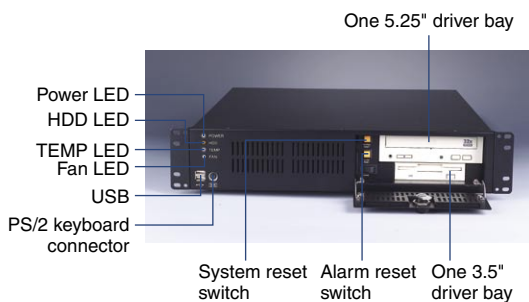
### Introduction

ACP-2000MB is a compact, rugged 2U-high 19" rackmount industrial computer chassis designed for space-conscious applications. With only 2U height, ACP-2000MB can support any of Advantech's AIMB industrial motherboards and up to three full-length PCI cards. It is ideal for enterprise users concerned about space limitations and provides the best computer platform for mission critical applications.

This chassis comes with 300W ATX PFC power supply, dual abundant cooling fans, front-accessible air filter, dual USB, PS/2 keyboard connector, system reset, system alarm reset and system power switch. The viewable LED indicators on front door show the system status. This ultra-compact 2U chassis delivers rack space optimization without sacrificing performance, expandability, serviceability, or manageability.

### Specifications

Drive Bay		Front-accessible	Internal
	5.25"	1	
	3.5"	1	2
Cooling		Front	Rear
	Fan	2 (47 CFM/each)	
	Air Filter	Yes (front-accessible)	
I/O interface	USB	2 (front-accessible)	
	PS/2	1 (keyboard, front-accessible)	
Miscellaneous	Rear panel	D-SUB 9-pin bracket	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10G (With 11 ms duration, half sine wave)	30G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 88 x 450 mm (19" x 3.46" x 17.8")	
	Weight	10.2 kg (22.5 lb)	
Compliance	Safety	CE compliant, UL/cUL approved	



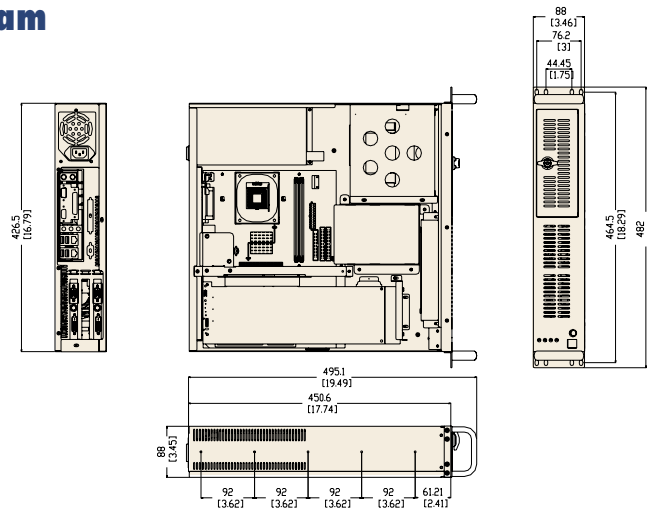
300W ATX PFC P/S & rear panel of motherboard version



Motherboard allocation

- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
1757000007 (ATX,PFC)	300 W	AC 100 ~ 240 V (Full-range)	+5 V @ 35 A +3.3 V @ 20 A +12 V @ 16 A -12 V @ 1 A -5 V @ 0.5 A +5 Vsb @ 2 A	+5 V @ 3 A +12 V @ 2 A -5 V @ 0.05 A -12 V @ 0.05 A +3.3 V @ 1 A +5 Vsb @ 0.1 A	CE EN61000-3-2 Class D /UL/cUL/TUV/CB/CCC	97,800 hours @ 25 °C

## Ordering Information

Part Number	With Power Supply	With Riser Card	Mother Board	Regulation
ACP-2000MB-00X	Without power supply with ATX switch	9696070000 for AIMB series only	W/O for AIMB series only	None
ACP-2000MB-30Z	1757000007	9696070000 for AIMB series only	W/O for AIMB series only	CE/UL/cUL

## Accessory Options

Part Number	Descriptions
SCD-FDD-COMBO	5.25" storage kit with slim 24X CD-ROM and standard 3.5" black FDD
SCD COMBO	5.25" storage kit with slim 24X CD-ROM and a 3.5" driver space for FDD or HDD
9684000014	3.5" FDD with Black Bezel
1759254100	Low profile PIII CPU cooler
1759214200	Low profile P4 CPU cooler up to 2.8G

# ACP-4000MB

## 4U Rackmount Chassis for ATX Motherboard

**NEW**



### Features

- Front-accessible USB and PS/2 keyboard
- Visible alarm notification improves system availability and is easy to maintain
- Compatible with Dialogic computer telephony (CT) boards suitable for a wide range of call processing application
- Advanced cooling system with two system fans, optimally placed, to cool system's key components
- Shock-resistant disk drive bay holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports 300 W ATX PFC PS/2 power supply and 300 W ATX PFC redundant power supply

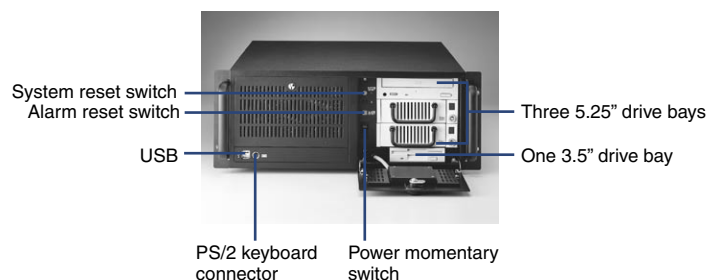


### Introduction

ACP-4000MB is a 4U-high rackmount industrial computer chassis designed for building mission-critical applications. The unit supports an ATX motherboard and is equipped with a 300W ATX PFC (Power Factor Correction) power supply and dual easy-maintenance fans. A fault detection and alarm notification system monitors the systems status. A wide range of standard computing peripherals can be integrated with the chassis to meet different application requirements.

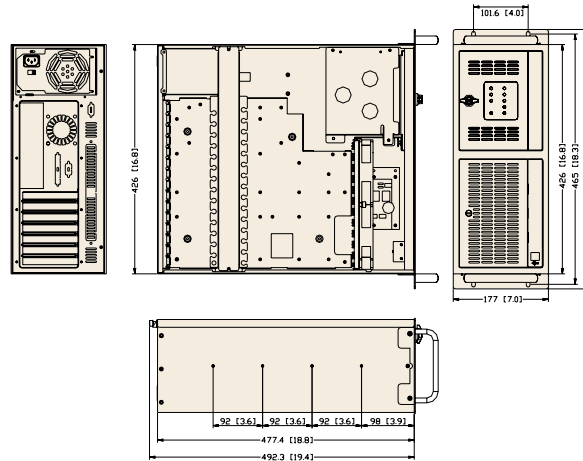
### Specifications

Drive Bay	3.5"	Front-accessible	1
	5.25"		3
Cooling	Fan		2 (84 CFM/each)
	Air Filter		Yes
I/O Interface	USB		2 (front-accessible)
	PS/2		1 (keyboard x 1, front-accessible)
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
Environment	Temperature	Operating	Non-Operating
		0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	--	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
Physical	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	14 Kg (30.8 lb)	





## Dimension Diagram



Unit: mm (inch)

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

## Power Supply Options

Part Number	Watt	Input	Specifications			MTBF
			Output	Mini-load	Safety	
PS-300ATX-ZB (ATX, PFC)	300 W	AC90 ~ 264 V (Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL(60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC CSA/Nemko CB/CCC	100,000 hours @ 25 °C
RPS-300ATX-Z (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 25 A +3.3 V @ 18 A +12 V @ 16 A -12 V @ 0.5 A -5 V @ 0.5 A +5 Vsb @ 2 A	+5 V @ 3 A +3.3 V @ 1 A +12 V @ 2 A +5 Vsb @ 0.1 A	UL/TUV/CB/CCC CE (EN61000-3-2 Class D) FCC Class B	150,000 hours @ 25 °C

## Ordering Information

Part Number	With Power Supply	With Motherboard	Regulation
ACP-4000MB-00X	Without power supply, with ATX switch	--	None
ACP-4000MB-30Z	PS-300ATX-ZB	--	UL, cUL, CE
ACP-4000MB-30R	RPS-300ATX-Z	--	UL, cUL, CE

## Storage Device Options

Part Number	Descriptions
SCD-FDD-COMBO	Storage Kit with slim 24X CD-ROM and standard 3.5" black FDD
SCD COMBO	5.25" compact storage kit with slim 24X CD-ROM and a 3.5" drive bay for FDD or HDD
9684000014	3.5" FDD with black bezel

# IPC-610MB-H

## 4U Rackmount Chassis for ATX Motherboard

**NEW**



### Features

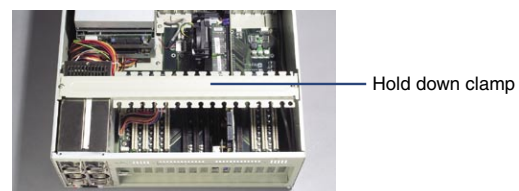
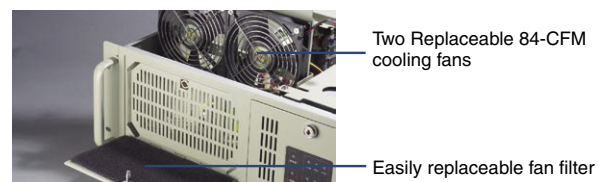
- Equipped with 300 W ATX PFC PS/2 power supply
- Easy installation front accessible disk drive bays to hold three half-height drives, one 3.5" FDD and one internal 3.5" disk drive
- Front accessible USB & PS/2 keyboard I/O interface
- Front viewable system LED
- Designed to withstand environmental extremes, such as shock, vibration and high temperature

### Introduction

IPC-610MB-H is a 4U-high rackmount industrial computer chassis designed for mission-critical applications. The unit includes a high-efficiency 300 W ATX PFC (Power Factor Correction) power supply and dual easy-maintenance cooling fans. The front viewable LEDs display the power, HDD and system voltage activity. An advanced cooling system with dual fans provides sufficient flow to cool the system's key components. The front accessible USB and PS/2 keyboard I/O interfaces can be connected with a wide range of peripheral devices for data transfer, backup, and input. Flexible mechanical design supports a single PS/2 or redundant power supply. All these outstanding features make IPC-610MB-H the best choice for price, performance and total cost of ownership.

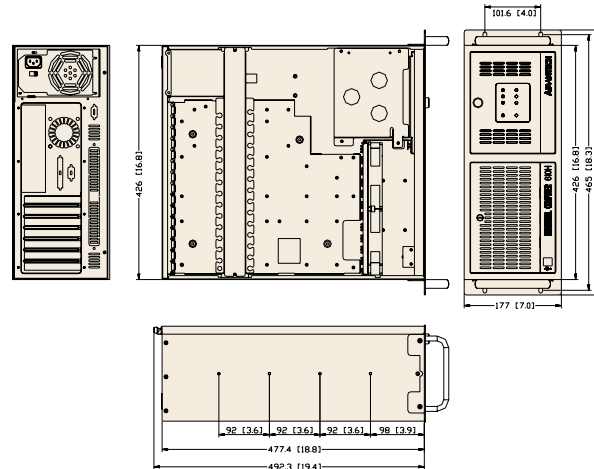
### Specifications

Drive Bay	5.25"	Front-accessible	Internal
	3.5"	3	1
Cooling	Fan	2 (84 CFM/each)	
	Air Filter	Yes	
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
	Indicator	Power, System Voltage and HDD LED indicators	
	Rear Panel	D-SUB 9-pin and 25-pin bracket	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	
	Vibration (5 ~ 500 MHz)	1 Grms	2 G
	Shock	10 G (With 11 msec duration, 1/2 sine wave)	30 G
	Acoustic Noise	Less than 52dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	10.2 kg (22.5 lb)	



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			MTBF
			Output	Mini-load	Safety	
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC CSA/Nemko CB/CCC	100,000 hours @ 25 °C
RPS-300ATX-Z (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 25 A +3.3 V @ 18 A +12 V @ 16 A -12 V @ 0.5 A -5 V @ 0.5 A +5 Vsb @ 2 A	+5 V @ 3 A +3.3 V @ 1 A +12 V @ 2 A +5 Vsb @ 0.1 A	UL/TUV/CB/CCC CE (EN61000-3-2 Class D) FCC Class B	150,000 hours @ 25 °C

## Ordering Information

Part Number	With Power Supply	With Motherboard	Regulation
IPC-610MB-00XH	Without power supply with ATX switch	--	None
IPC-610MB-30ZH	PS-300ATX-ZB	--	UL, cUL, CE
IPC-610MB-30RH	RPS-300ATX-Z	--	UL, cUL, CE



Rear panel of motherboard version with redundant power supply

# IPC-610MB-L

## 4U Rackmount Chassis for ATX Motherboard

**NEW**



### Features

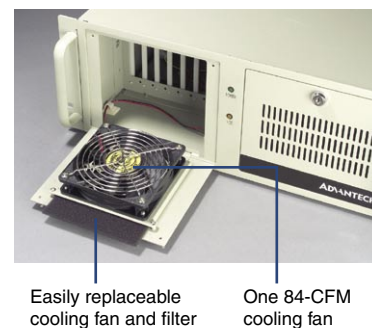
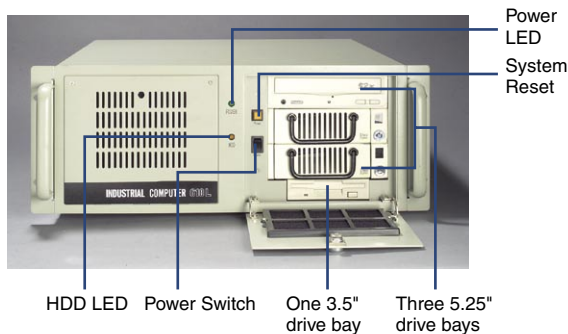
- User-friendly and front-accessible filter for system maintenance
- Front visible power and HDD LED alarm notification
- Designed to withstand environmental extremes, such as shock, vibration and high temperature
- Shock-resistant disk drive bays holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports both PS/2 single and redundant power supply

### Introduction

IPC-610MB-L is a 4U-high rackmount IPC chassis designed as a core block for mission-critical applications. This rugged, all-steel chassis meets the EIA RS-310C 19" rackmount standard. IPC-610MB-L comes with shockproof and front accessible drive bays, three 5.25" & one 3.5". The unit includes a high-efficiency 250/300 W ATX PFC (Power Factor Correction) power supply and one easy maintenance cooling fan which provides abundant cooling. IPC-610MB-L supports an ATX motherboard, and a wide range of standard computing peripherals can be integrated with the chassis to meet various application requirements.

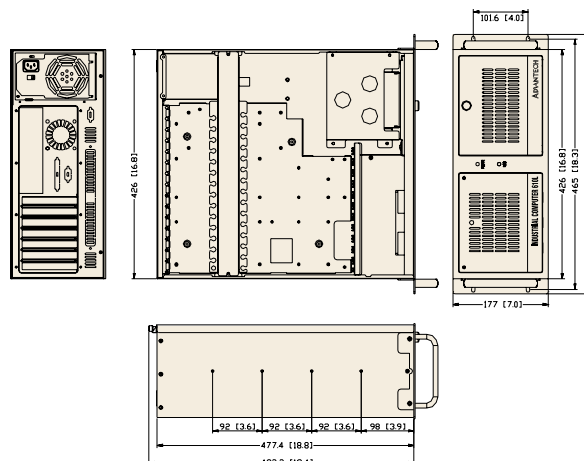
### Specifications

Drive Bay	5.25"	Front-accessible	Internal
	3.5"	3	1
Cooling	Fan	1 (84 CFM/each)	
	Air Filter	Yes	
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
	Indicator	Power & HDD activity	
	Rear Panel	D-SUB 9-pin and 25-pin bracket	
Environment	Temperature	Operating	Non-Operating
	Humidity	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Vibration (5 ~ 500 MHz)	-20 ~ 60 °C (-4 ~ 140 °F)	10 ~ 95 % @ 40 °C, non-condensing
	Shock	1 Grms	2 G
	Acoustic Noise	10 G (With 11 msec duration, 1/2 sine wave)	30 G
	Altitude	Less than 52dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	0 to 3048 m (0 ~ 10,000 ft)
Physical	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	10.2 kg (22.5 lb)	





## Dimension Diagram



Unit: mm (inch)

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		MTBF
				Mini-load	Safety	
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	50,000 hours @ 25 °C full load
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL(60950 3rd) CE(EN61000-3-2 Class D) TUV/FCC CSA/Nemko CB/CCC	100,000 hours @ 25 °C

## Ordering Information

Part Number	With Power Supply	With Motherboard	Regulation
IPC-610MB-00XL	Without power supply with ATX switch	--	None
IPC-610MB-25ZL	PS-250ATX-Z	--	UL/cUL/CE
IPC-610MB-30ZL	PS-300ATX-ZB	--	UL/cUL/CE

# IPC-510MB

## 4U Rackmount Chassis for ATX Motherboard

**NEW**



### Features

- The most cost-effective rackmount chassis
- Equipped with 250/300 W ATX PFC PS/2 power supply
- Easy to install front accessible disk drive bays to hold three half-height drives, one 3.5" FDD and one internal 3.5" disk drive
- Front accessible USB & PS/2 keyboard connector for data transfer
- Designed to withstand environmental extremes, such as shock, vibration and high temperature

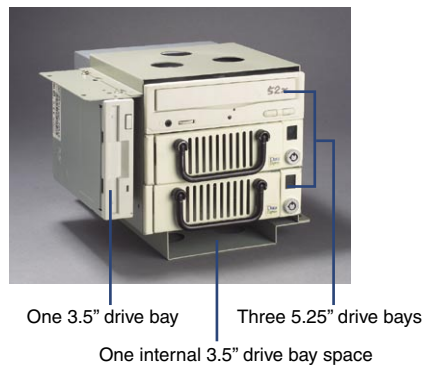
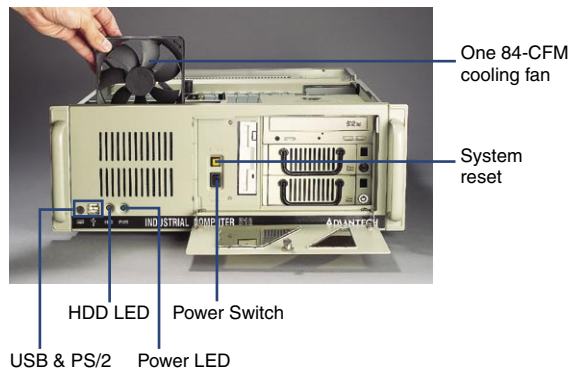


### Introduction

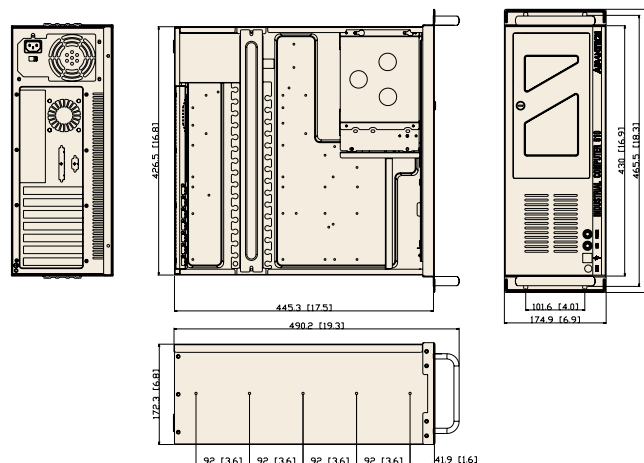
IPC-510MB is a 4U-high IPC rackmount chassis which supports 250/300 ATX PFC PS/2 power supply. It is designed as a core block for mission-critical applications and offers the best choice for price, performance and total cost of ownership. The shockproof chassis provides abundant data access solutions, including: three half-height 5.25", one 3.5" FDD, and one internal 3.5" HDD. The front accessible USB and PS/2 keyboard I/O interfaces can be connected with various peripheral devices for data transferring, backup and input. Supporting up to five full-length PCI cards, IPC-510MB allows a wide range of standard computing peripherals to be integrated with the chassis to meet different application requirements.

### Specifications

Drive Bay		Front-accessible	Internal
	5.25"	3	
	3.5"	1	1
Cooling	Fan	1 (84 CFM/each)	
I/O Interface	USB	1(front-accessible)	
	PS/2	1(front-accessible)	
Miscellaneous	Rear panel	Two D-SUB 9-pin bracket	
	Indicator	LED display for power on and HDD activities	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 msec duration, 1/2 sine wave)	30 G
	Altitude	10,000 ft	40,000 ft
	Acoustic Noise	Less than 60dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
Physical	Dimensions (W x H x D)	482 x 177 x 450 mm (19" x 7" x 17.7")	
	Weight	9.8 kg (21.6 lb)	



## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			MTBF
			Output	Mini-load	Safety	
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25° C full load
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25° C

## Ordering Information

Part Number	With Power Supply	With Motherboard	Regulation
IPC-510MB-00X	Without power supply with ATX switch	(M/B version)	None
IPC-510MB-25Z	PS-250ATX-Z	(M/B version)	UL, cUL, CE
IPC-510MB-30Z	PS-300ATX-ZB	(M/B version)	UL, cUL, CE



Rear panel of motherboard version

# Full-sized CPU Cards



PCA-6188



PCA-6187



PCA-6186

## Selection Guide

Specification		Pentium® 4 / Celeron® Full-sized CPU Card					
		PCA-6188	PCA-6187	PCA-6186	PCA-6185	PCA-6184	PCA-6005-B
Processor System	CPU	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478
	Max. Speed	3.2 GHz/2.4 GHz	3.2 GHz/2.4 GHz	3.06 GHz / 2.4 GHz	3.06 GHz / 2.4 GHz	3.06 GHz/2.4 GHz	3.06 GHz/2.4 GHz
	L2 Cache	256,512 KB / 128KB	256,512 KB / 128KB	256,512 KB / 128KB	256,512 KB / 128KB	256,512 KB / 128KB	256,512 KB / 128KB
	Chipset	Intel 875P + 6300ESB	Intel 865G + ICH5	Intel 845GV + ICH4	ServerWorks GC-SL+ CSB5	Intel 845E + ICH2	SiS 651 + 962L
Bus	BIOS	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH	Award 4 Mb FWH	Award 2 Mb FWH
	FSB	400/533/800 MHz	400/533/800 MHz	400/533 MHz	400/533 MHz	400/533 MHz	400/533 MHz
	PCI	PCI-X 64-bit / 66 MHz	32-bit / 33 MHz	32-bit / 33 MHz	PCI-X 64-bit / 66 MHz	32-bit / 33 MHz	32-bit / 33 MHz
	ISA	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	Not supported	HISA (ISA high drive)	Not supported
Graphic	Controller	Ati Mobility Radeon 9600 Pro (AGP 8X)	Chipset integrated	Chipset integrated	ATI Rage XL (PCI)	ATI RAGE Pro 128 4XL (AGP 4X)	Chipset integrated
	VRAM	64 MB DDR SDRAM	Share system memory up to 64 MB	Share system memory 8-64 MB	8 MB SDRAM	32 MB SDRAM	Share system memory up to 64 MB (default 32 MB)
	LCD	Yes	N/A	N/A	N/A	N/A	N/A
Ethernet	Interface	10/100/1000Base-T	10/100/1000Base-T or 10/100Base-T	10/100/1000Base-T or 10/100Base-T	10/100/1000Base-T	10/100Base-T	100Base-T
	Controller	Intel 82547/82541	Intel 82547/82541, Intel 82562 (FE)	Intel 82562/82551, Intel 82540 (GbE)	Broadcom BCM 5703/5704	Intel 82559 x 2	Realtek 8139C x 2
	Connector	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2
	Disable from BIOS	Yes	Yes	Yes for FE LAN NO for GbE	N/A	Yes	N/A
SCSI	Interface	N/A	Ultra 160	N/A	Ultra 320	N/A	Ultra 160
	Controller		Adaptec AIC-7899		Adaptec AIC-7902		Adaptec AIC-7899
	Max. Data Transfer Rate		160 MB/Sec.		320 MB/Sec.		160 MB/Sec.
	Channel		2		2		2
Memory	Technology	Dual channel DDR 266/333/400 SDRAM support ECC	Dual channel DDR 266/333/400 SDRAM	DDR 200/266 SDRAM	DDR 200/266 SDRAM with ECC, Registered only	DDR 200/266 SDRAM, support ECC	DDR 200/266/333 SDRAM
	Max. Capacity	4 GB	4 GB	2 GB	4 GB	2 GB	2 GB
	Socket	184-pin DIMM x4	184-pin DIMM x4	184-pin DIMM x2	184-pin DIMM x3	184-pin DIMM x2	184-pin DIMM x2
SATA	Max. Data Transfer Rate	150 MB/Sec.	150 MB/Sec.	N/A	N/A	N/A	N/A
	Channel	2	2				
EIDE	Mode	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 133/100/66/33
	Channel	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)	2 (Max. four devices)
I/O Interface	USB	(USB 2.0 compliant)	(USB 2.0 compliant)	(USB 2.0 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 2.0 compliant)
	Serial	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)
	Parallel	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)
	FDD	1	1	1	1	1	1
	PS/2	1	1 (for VE, VG versions)	1 (for LV, VE, VG versions)	1	1 (for L, V, VE versions)	1 (for V, VE versions)
			2 (for G2, F versions)	2 (for E2, G2 versions)		2 (for E2 version)	2 (for E2, F versions)
	LAN	1 (for VG version) 2 (for G2 version)	1 (for VE, VG versions)	1 (for VE, VG versions)	1 (for VG version)	1 (for VE version)	1 (for VE version)
			2 (for G2, F versions)	2 (for E2, G2 versions)	2 (for G2, F versions)	2 (for E2 version)	2 (for E2, F versions)
	OBS (hardware monitor)	Yes	Yes	Yes	Yes	Yes	Yes
	Watchdog Timer	Output	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset
Interval		Programmable, 1-255 sec/min	Programmable, 1-255 sec/min	Programmable, 1-255 sec/min	Programmable, 1-63 sec	Programmable, 1-255 sec/min	Programmable, 1-255 sec/min
Miscellaneous	Audio (require PCA-AUDIO-00A1)	Yes	Yes	Yes	No	Yes	Yes
	Advantech SNMP-1000	Yes	Yes	Yes	Yes	Yes	Yes
	Solid State Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk
Reference Page		4-2	4-4	4-6	4-7	4-8	4-10





PCA-6003



PCA-6277-B



PCA-6180-B

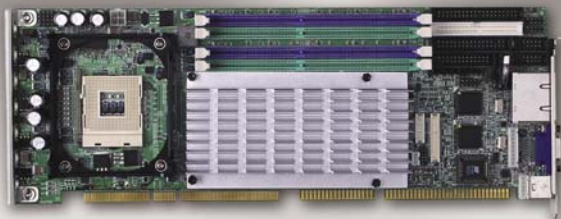
- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

Dual Pentium® III Full-sized CPU Card		Pentium® III / Celeron® Full-sized CPU Card					Ultra Low Voltage / Low-power Full-sized CPU Card	
PCA-6278	PCA-6277-B	PCA-6183	PCA-6181	PCA-6180-B	PCA-6003	PCA-6178-C	PCA-6002-B	PCA-6004
Dual Intel® Pentium® III (Tualatin) Socket 370	Dual Intel® Pentium® III Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Celeron® (Ultra Low Voltage)	VIA C3 EBGA (Low-power)
1.26 GHz	1.4 GHz	1.4 GHz / 1.2 GHz	1.4 GHz / 1.2 GHz	1.4 GHz/1.3 GHz	1.4 GHz/1.3 GHz	1.0 GHz/1.1 GHz	650/400 GHz	800 MHz
256, 512 KB	256, 512 KB	256,512 KB / 128,256 KB	128,256,512 KB	256,512 KB / 128,256 KB	256,512 KB / 128,256 KB	256 KB/128 KB	256 KB	L1 128 KB; 64 KB
ServerWorks ServerSet 30LE + OSB4	VIA Apollo Pro 133T (694T) + 686B	ServerWorks ServerSet 30LC-T+ OSB4	VIA Apollo Pro 133T (694T) + 686B	Intel 815E + ICH2	VIA Apollo PLE 133T (VT8601)+ 686B	Intel 440BX	Intel 815E + ICH2	VIA Apollo PLE 133T (VT8601)+ 686B
Award 2 Mb FWH	Award 2 Mb FWH	Award 2 Mb FWH	Award 2 Mb FWH	Award 4 Mb FWH	Award 2 Mb FWH	Award 2 Mb FWH	Award 4 Mb FWH	Award 2 Mb FWH
100/133 MHz	100/133 MHz	100/133 MHz	66/100/133 MHz	66/100/133 MHz	66/100/133 MHz	66/100 MHz	100 MHz	133 MHz
64-bit / 66 MHz	32-bit / 33 MHz	64-bit	32-bit / 33 MHz	32-bit / 33 MHz	32-bit / 33 MHz	32-bit / 33 MHz	32-bit / 33 MHz	32-bit / 33 MHz
HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive), optional	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive), optional
ATI RAGE XL (PCI)	ATI RAGE Pro 128 4XL (AGP 4X)	ATI RAGE XL	ATI RAGE Pro 128 4XL (AGP 4X)	Chipset integrated	Chipset integrated	ATI RAGE XL (AGP 2X)	Chipset integrated	Chipset integrated
8 MB SGRAM	32 MB SDRAM	8 MB SDRAM	32 MB SDRAM	Share system memory up to 11 MB	Share system memory up to 8 MB	4 / 8 MB SGRAM	Share system memory up to 11 MB	Share system memory up to 8 MB
N/A	N/A	N/A	N/A	N/A	Optional 18-bit TFT LCD support	N/A	N/A	Optional 18-bit TFT LCD support
10/100Base-T	10/100Base-T	10/100/1000Base-T or 10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T
Intel 82559 x 2	Realtek 8139C x2	Intel 82559, Broadcom 5701 (GbE)	Realtek 8139C x2	Intel 82562/82559	Realtek 8139C	Intel 82559	Intel 82562/82551	Realtek 8139C
RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45 x 2	RJ-45	RJ-45	RJ-45 x 2	RJ-45
No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
N/A	Ultra 160	Ultra 160	Ultra 160	Ultra 160	N/A	Ultra2 wide Symbios SYM53C895	N/A	N/A
	Adaptec AIC-7899	Adaptec AIC-7899W	Adaptec AIC-7899	Adaptec AIC-7892		80 MB/Sec.		
	160 MB/Sec.	160 MB/Sec. (64bit/33MHz)	160 MB/Sec.	160 MB/Sec.		1		
	2	2	2	1				
PC-133/100 SDRAM support ECC Registered only	PC-133/100 SDRAM support ECC	PC-133/100 SDRAM support ECC Registered only	PC-133/100 SDRAM support ECC	PC-133/100 SDRAM	PC-133/100 SDRAM	PC-100 SDRAM support ECC	PC-133/100 SDRAM	PC-133/100 SDRAM
4 GB	1.5 GB for PC133, 2 GB for PC100	4 GB	1.5 GB	512 MB	1 GB	768 MB	512 MB	1 GB
168-pin DIMM x4	168-pin DIMM x4	168-pin DIMM x4	168-pin DIMM x3	168-pin DIMM x3	168-pin DIMM x2	168-pin DIMM x3	168-pin DIMM x2	168-pin DIMM x2
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ATA 33	ATA 100/66/33	ATA 33	ATA 100/66/33	ATA 100/66/33	ATA 100/66/33	ATA 33	ATA 100/66/33	ATA 100/66/33
2	2	2	2	2	2	2	2	2
(Max. four devices)	(Max. four devices)	(Max. four devices)	(Max. four devices)	(Max. four devices)	(Max. four devices)	(Max. four devices)	(Max. four devices)	(Max. four devices)
(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)	(USB 1.1 compliant)
2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)	2 (RS-232)
1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)	1 (SPP/EPP/ECP)
1	1	1	1	1	1	1	1	1
1	1 (for V, VE versions)	1 (for L, V, VG, GS versions)	1 (for L, V, VE, ES versions)	2	1	1	1 (for VE version)	1
	2 (for E2, F versions)	2 (for E2, F versions)	2 (for E2, F versions)				2 (for E2 version)	
1 (for VE version)	1 (for VE version)	1 (for VG, GS versions)	1 (for VE, ES versions)	1 (for E, ES versions)	1 (or VE, H versions)	1 (for VE, F versions)	1 (for VE versions)	1 (for VE, H versions)
2 (for E2 version)	2 (for E2, F versions)	2 (for E2, F versions)	2 (for E2, F versions)	2 (for E2, F versions)			2 (for E2 versions)	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset	Interrupt, system reset
Programmable, 1-63 sec	Programmable, 1-63 sec.	Programmable, 1-63 sec.	Programmable, 1-63 sec.	Programmable, 1-255 sec./min	Programmable, 1-63 sec.	Programmable, 1-63 sec.	Programmable, 1-255 sec./min	Programmable, 1-63 sec.
No	No	No	No	No	Yes	No	Yes	Yes
No	Yes	Yes	Yes	No	Yes	No	Yes	Yes
IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	M-systems' DOC 2000 (144 MB)	Compact Flash socket (Compact Flash Type I/II)	IDE Flash Disk
4-11	4-12	4-13	4-14	4-15	4-16	4-17	4-18	4-19

# PCA-6188

**Socket 478 Pentium® 4/Celeron® Processor Card with 64-bit PCI-X/VGA/ Dual Gigabit LAN/HISA (400/533/800 MHz FSB)**

**NEW**



## Features

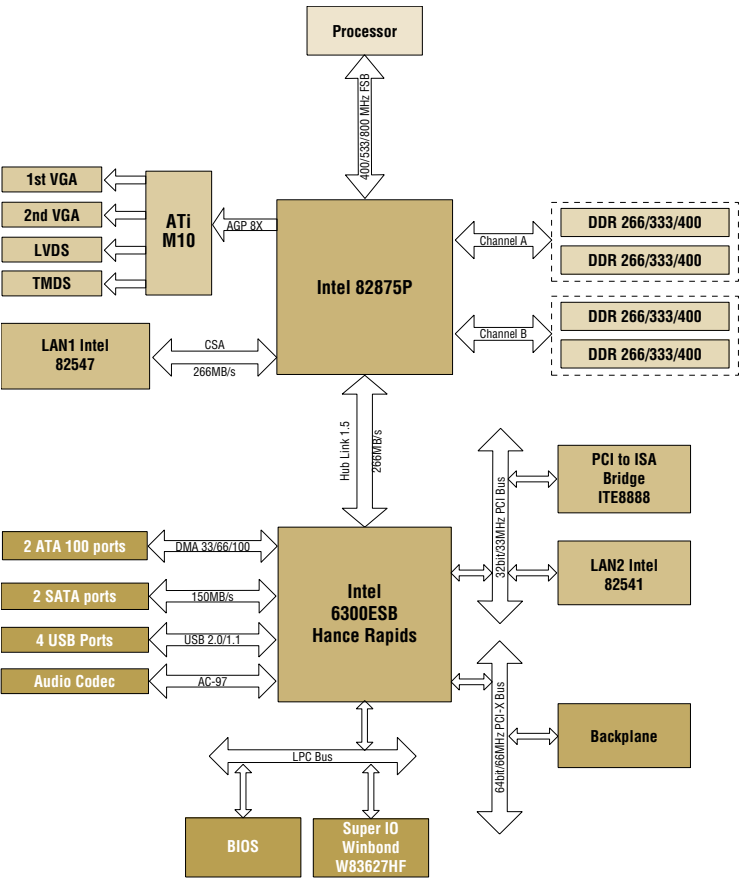
- Supports up to 2 Serial-ATA devices
- Supports Dual Channel DDR 400 SDRAM
- Intel® 875P chipset 400/533/800 MHz FSB
- Onboard AGP 8X ATI Mobility Radeon 9600 Pro VGA controller, 64MB DDR SDRAM integrated
- Supports dual display, LVDS and DVI
- 64-bit, 66MHz PCI-X
- Supports 10/100/1000Base-T Ethernet
- 4 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- HISA (ISA high drive) support

CE FCC

## Specifications

Processor System	CPU (0.13 & 0.09 micron)	Intel Pentium 4	Intel Celeron	
	Max. Speed	3.06 GHz (533 FSB), 3.2 GHz (800 FSB) * Vcore 1.75 V CPU (Willamete) not supported	2.4 GHz	
	L2 Cache	512/256 KB	128 KB	
	Chipset	Intel® 875P + 6300ESB		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	400/533/800 MHz		
	PCI	64-bit/33/66MHz PCI, 66MHz PCI-X		
	ISA	HISA (ISA high drive), no DMA support		
Memory	Technology	Dual Channel DDR266/333/400 SDRAM with ECC support		
	Max. Capacity	4 GB		
	Socket	184-pin DIMM x 4		
Graphic	Controller	ATI Mobility Radeon 9600 Pro (AGP 8X)		
	VRAM	64MB DDR SDRAM integrated		
	Video Output	1 CRT1, 2048 x 1536, up to 200Hz vertical rate		
		1 CRT2, 2048 x 1536, up to 200Hz vertical rate 1 LVDS, dual 115MHz interface, 2048 x 1536@60Hz 1 DVI, 1600 x 1200@60Hz, 165MHz		
Ethernet	Interface	10/100Base-T; 10/100/1000Base-T (optional)		
	Controller	LAN 1: Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82541GI (Gigabit)		
	Connector	RJ-45 x 2		
SATA	Max. Data Transfer Rate	150MB/Sec.		
	Channel	2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	Max. 4 (USB 2.0 compliant)		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	1		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1~255 sec.		
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)		
Power Requirement	Typical	Pentium4		
		+5 V	-5 V	+12 V
		TBD	TBD	TBD
Environment	Temperature	Operating	Non-Operating	
		0~60 °C (32~140 °F), depends on CPU's speed	-20~70 °C (-40 ~ 158 °F)	
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")		

Block Diagram



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

Ordering Information

Part Number	Fast Ethernet LAN	Gigabit LAN
PCA-6188VG-00A1	--	Single
PCA-6188G2-00A1	--	Dual

Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Serial ATA HDD data cable	X 2	1700071000
▪ Serial ATA HDD power cable	X 2	1703150102
▪ ATX 12V power converter cable	X 1	170304015K
▪ Printer + COM cable	X 1	1701260305
▪ 4 USB ports extension cable kit	X 1	
▪ Y cable for PS/2 mouse & keyboard	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

Accessory Options

▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis	1759214200
▪ Audio extension module	PCA-AUDIO-00A1

# PCA-6187

## Socket 478 Pentium® 4/Celeron® Processor Card with VGA/Dual Gigabit LAN/HISA/SCSI (400/533/800 MHz FSB)

**NEW**



### Features

- Supports up to 2 Serial-ATA devices
- Supports Dual Channel DDR 400 SDRAM
- Onboard Adaptec AIC-7899 dual channel Ultra 160 SCSI up to 160MB/Sec.
- Intel® 865G chipset 400/533/800 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports 10/100Base-T Ethernet or 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- HISA (ISA high drive) support

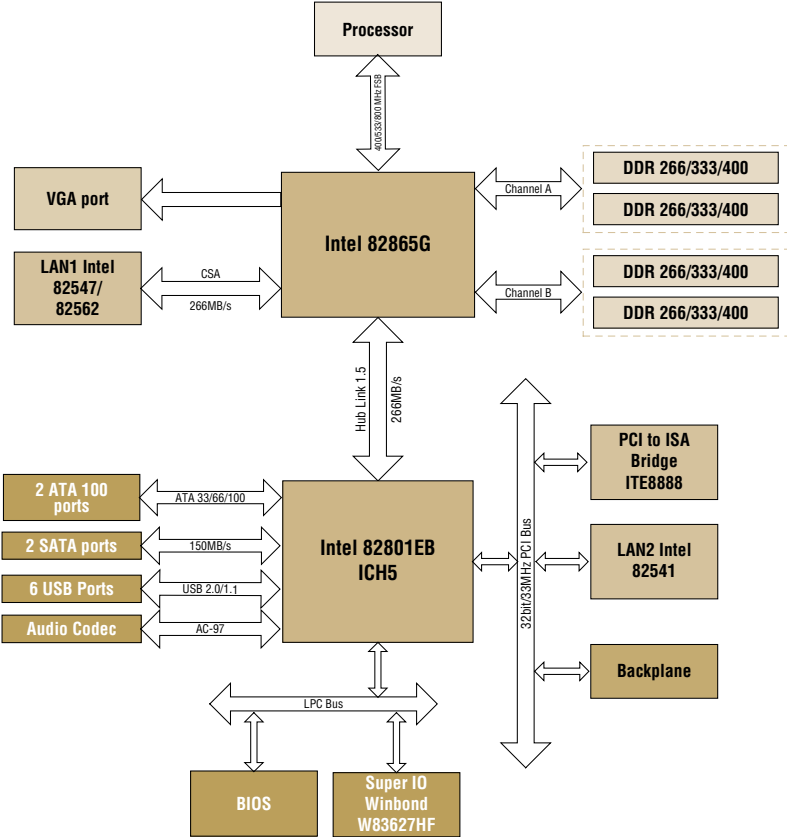
CE FCC

### Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron
	Max. Speed	3.06 GHz (533 FSB) 3.2 GHz (800 FSB) * Vcore 1.75 V CPU (Willamete) not supported	2.4 GHz
	L2 Cache	512/256 KB	128 KB
	Chipset	Intel® 865G + ICH5	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	400/533/800 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	Dual Channel DDR266/333/400 SDRAM	
	Max. Capacity	4 GB	
	Socket	184-pin DIMM x 4	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Dynamically shared system memory, 8-64MB	
Ethernet	Interface	10/100Base-T; 10/100/1000Base-T (optional)	
	Controller	LAN 1: Intel 82562EZ (FE); Intel 82547GI (Gigabit, CSA) LAN 2: Intel 82541GI (Gigabit)	
	Connector	RJ-45 x 2	
SCSI	Interface	Ultra 160	
	Controller	Adaptec AIC-7899	
	Max. Data Transfer Rate	160MB/Sec.	
SATA	Channel	2	
	Max. Data Transfer Rate	150MB/Sec.	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 6 (USB 2.0 compliant), 4 ports on board for G2, F versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec.	
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)	
Power Requirement	Typical	Pentium4 3.0GHz (800MHz FSB), 4 x 512MB DDR 400 SDRAM	
		+5 V                      -5 V                      +12 V                      -12 V 6.53 A                      0.1 A                      4.6 A                      0.2 A	
Environment	Operating		Non-Operating
	Temperature	0-60 °C (32-140 °F), depends on CPU's speed	-20-70 °C (-40 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	



**Block Diagram**



Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

**Ordering Information**

Part Number	HISA	VGA	Fast Ethernet LAN	Gigabit LAN	SCSI
PCA-6187VE-00A1	V	V	Single	--	--
PCA-6187VG-00A1	V	V	--	Single	--
PCA-6187G2-00A1	V	V	--	Dual	--
PCA-6187F-00A1	V	V	--	Dual	V

**Packing List**

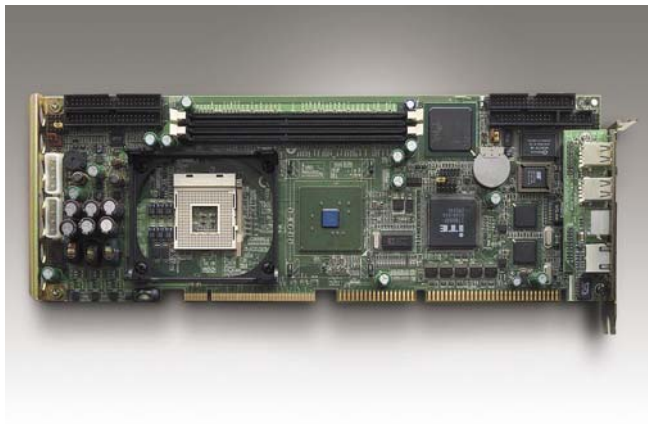
- FDD cable X 1 1700340640
- IDE HDD cable X 2 1701400452
- Serial ATA HDD data cable X 2 1700071000
- Serial ATA HDD power cable X 2 1703150102
- ATX 12V power converter cable X 1 170304015K
- Printer + COM cable X 1 1701260305
- Y cable for PS/2 mouse & keyboard X 1 1700060202
- Jumper pack X 1 9689000068
- Startup manual X 1 --
- Utility CD X 1 --

**Accessory Options**

- USB cable with 2 ports 1700100170
- USB extension module with 4 ports (only for VE, VG versions) PCA-USB4-00A1
- CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis 1759214200
- Audio extension module PCA-AUDIO-00A1
- SCSI cable with terminator (125cm) 1700000182

# PCA-6186

## Socket 478 Pentium® 4/Celeron® Processor Card with VGA/Dual Gigabit LAN/HISA (400/533 MHz FSB)



### Features

- Socket 478 Pentium® 4/Celeron® up to 3.06/2.4 GHz
- Supports Intel® Hyper-Threading® Technology
- Intel 845GV chipset 400/533 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports dual 10/100Base-T Ethernet or dual 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- HISA (ISA high drive) support

### Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron		
	Max. Speed	3.06 GHz	2.4 GHz		
	L2 Cache	512/256 KB	128 KB		
	Chipset	Intel 845 GV + ICH4			
	BIOS	Award 4 Mb FWH			
Bus	Front Side Bus	400/533 MHz			
	PCI	32-bit/33 MHz			
	ISA	HISA (ISA high drive)			
Memory	Technology	DDR 200/266 SDRAM			
	Max. Capacity	2 GB			
	Socket	184-pin DIMM x 2			
Graphic	Controller	Chipset integrated VGA controller			
	VRAM	Dynamically shared system memory 8-64 MB			
Ethernet	Interface	10/100Base-T; 10/100/1000Base-T (optional)			
	Controller	LAN 1: Intel 82562(FE); Intel 82540(Gigabit); LAN 2: Intel 82551(FE); Intel 82540(Gigabit)			
	Connector	RJ-45 x 2			
EIDE	Mode	ATA 100/66/33			
	Channel	2 (Max. 4 devices)			
I/O Interface	USB	Max. 6 (USB 2.0 compliant), 4 ports onboard for E2, G2 versions			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
	PS/2	1 (for LV, VE, VG, G2 versions), 2 (for E2 version)			
Watchdog Timer	Output	Interrupt, system reset			
	Interval	Programmable, 1 ~ 255 sec.			
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)			
Power Requirement	Typical	Pentium 4 2 GHz, 256 MB DDR SDRAM			
		+5 V	-5 V	+12 V	-12 V
		8.7 A	0.1 A	0.3 A	0.2 A
		Operating		Non-Operating	
Environment	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU's speed			
	Dimensions	-20 ~ 70° C (-4 ~ 158° F)			
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")			

### Ordering Information

Part Number	HISA	VGA	Fast Ethernet LAN	Gigabit LAN
PCA-6186LV-00A1	V	V	--	--
PCA-6186VE-00A1	V	V	Single	--
PCA-6186E2-00A1	V	V	Dual	--
PCA-6186VG-00A1	V	V	--	Single
PCA-6186G2-00A1	V	V	--	Dual

### Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard (LV, VE, VG, G2 versions only)	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Single slot bracket (E2, G2 versions only)	X 1	1962159010
▪ Startup manual	X 1	--
▪ Utility CD	X 1	-

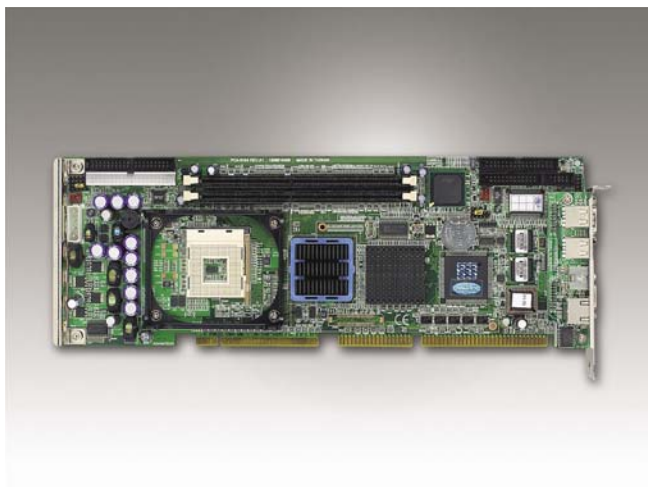
### Accessory Options

▪ USB cable with 2 ports	1700100170
▪ USB extension module with 4 ports (only for LV, VG, VE versions)	PCA-USB4-00A1
▪ CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis	1759214200
▪ Audio extension module	PCA-AUDIO-00A1



# PCA-6184

**Socket 478 Pentium® 4/Celeron® Processor Card with VGA/  
Dual LAN/HISA (400/533 MHz FSB)**



## Features

- Socket 478 Intel® Pentium® 4/ Celeron® up to 3.06 GHz.
- Supports Intel Hyper-Threading Technology
- Intel 845E chipset 400/533 MHz FSB
- Onboard high performance AGP 4X VGA with 32 MB SDRAM
- Supports dual 10/100Base-T Ethernet
- AC-97 Audio Interface
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- HISA (ISA high drive) support

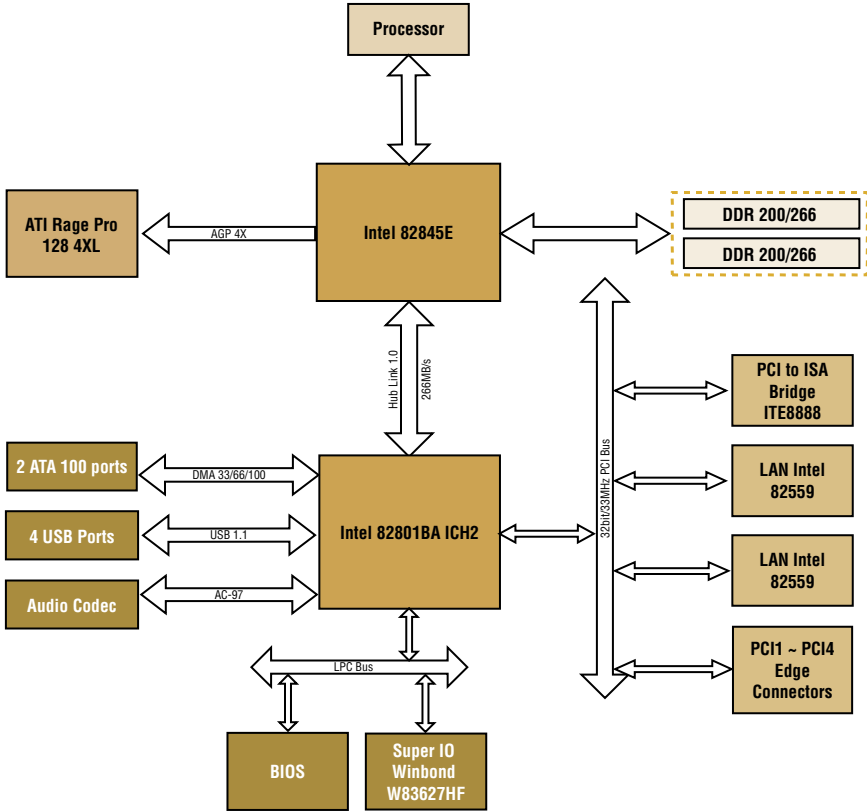


## Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron	
	Max. Speed	3.06 GHz	2.4 GHz	
	L2 Cache	512/256 KB	128 KB	
	Chipset	Intel 845E + ICH2		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	400/533 MHz		
	PCI	32-bit/33 MHz		
	ISA	HISA (ISA high drive)		
Memory	Technology	DDR200/266 SDRAM with ECC support		
	Max. Capacity	2 GB		
	Socket	184-pin DIMM x 2		
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)		
	VRAM	32 MB SDRAM		
Ethernet	Interface	10/100Base-T		
	Controller	Intel 82559 x 2		
	Connector	RJ-45 x 2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2 version		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	1 (for L, V, VE versions), 2 (for E2 version)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable, 1~255 sec.		
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)		
	Typical	Pentium 4 2.8G (533MHz), 512MB DDR266 SDRAM		
Power Requirement		+5 V	-5 V	+12 V
			0.1 A	0.5 A
		12.38 A		-12 V
				0.2 A
Environment		Operating		Non-Operating
	Temperature	0~60 °C (32~140 °F), depends on CPU's speed		-20~70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")		



Block Diagram



Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

Ordering Information

Part Number	HISA	VGA (AGP)	LAN
PCA-6184V-00A2	V	V	--
PCA-6184VE-00A2	V	V	Single
PCA-6184E2-00A2	V	V	Dual
PCA-6184L-00A2	V	--	--

Packing List

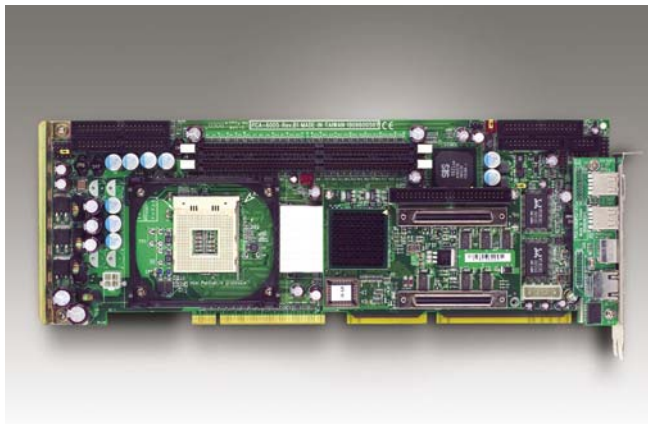
- FDD cable X 1 1700340640
- IDE HDD cable X 2 701400452
- Printer + COM cable X 1 1701260305
- Y cable for PS/2 mouse & keyboard X 1 1700060202
- Jumper pack X 1 9689000068
- Single slot bracket (E2 versions only) X 1 --
- Startup manual X 1 --
- Utility CD X 1 --

Accessory Options

- USB cable with 2 ports 1700100170
- USB extension module with 4 ports (only for V, VE versions) PCA-USB4-00A1
- CPU cooler for Pentium 4 up to 2.8 GHz, for 1U chassis 1759214200
- Audio extension module PCA-AUDIO-00A1

# PCA-6005-B

**Socket 478 Pentium® 4/Celeron® Processor Card with VGA/  
Dual LAN/SCSI (400/533 MHz FSB)**



CE FCC

## Features

- Socket 478 up to 3.06 GHz, supports Intel® Hyper-Threading® Technology
- SIS651 chipset 400/533 MHz FSB
- Integrated high performance VGA, shared system DRAM up to 64 MB
- Supports dual 10/100Base-T Ethernet, Realtek 8139C controller
- Onboard Adaptec AIC-7899 Ultra 160 SCSI up to 160 MB/sec.
- 4 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- No ISA support

## Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron		
	Max. Speed	3.06 GHz	2.4 GHz		
	L2 Cache	512/256 KB	128 KB		
	Chipset	SiS651			
	BIOS	Award 2 Mb Flash			
Bus	Front Side Bus	400/533 MHz			
	PCI	32-bit/33 MHz			
	ISA	Not supported			
Memory	Technology	DDR 200/266/333 SDRAM			
	Max. Capacity	2 GB			
	Socket	184-pin DIMM x 2			
Graphic	Controller	Chipset integrated VGA controller			
	VRAM	Shared system memory up to 64 MB			
Ethernet	Interface	10/100Base-T			
	Controller	RTL8139C x 2			
	Connector	RJ-45 x 2			
SCSI	Interface	Ultra 160			
	Controller	Adaptec AIC-7899			
	Max. Data Transfer Rate	160 MB/sec.			
	Channel	2			
EIDE	Mode	ATA 133/100/66/33			
	Channel	2 (Max. 4 devices)			
I/O Interface	USB	Max. 4 (USB 2.0 compliant), 4 ports onboard for E2, F versions			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
	PS/2	1 (for V, VE versions), 2 (for E2, F versions)			
	Watchdog Timer	Output	Interrupt, system reset		
Miscellaneous	Interval	Programmable, 1 ~ 255 sec.			
	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)			
Power Requirement	Typical	Pentium 4 1.6 GHz, 512 MB DDR SDRAM			
		+5 V	-5 V	+12 V	-12 V
		2.3 A	0.1 A	3.3 A	0.2 A
		Operating	Non-Operating		
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	-20 ~ 70 °C (-4 ~ 158 °F)		
	Physical	Dimensions	338 x 122 mm (13.3" x 4.8")		

## Ordering Information

Part Number	VGA	SCSI	LAN
PCA-6005V-00B1	V	--	--
PCA-6005VE-00B1	V	--	Single
PCA-6005E2-00B1	V	--	Dual
PCA-6005F-00B1	V	V	Dual

## Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard (only for V, VE versions)	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

## Accessory Options

▪ USB cable with 2 ports	1700100170
▪ USB extension module with 4 ports (only for V, VE versions)	PCA-USB4-00A1
▪ SCSI cable (125 cm) with terminator	1700000182
▪ CPU cooler for Pentium 4 up to 2.53 GHz, for 1U chassis	1959252100
▪ Audio extension module	PCA-AUDIO-00A1

# PCA-6278

## Dual Socket 370 Pentium® III Processor (Tualatin) Card with 64-bit PCI/VGA/Dual LAN/HISA (133 MHz FSB)

Industrial Motherboard 1

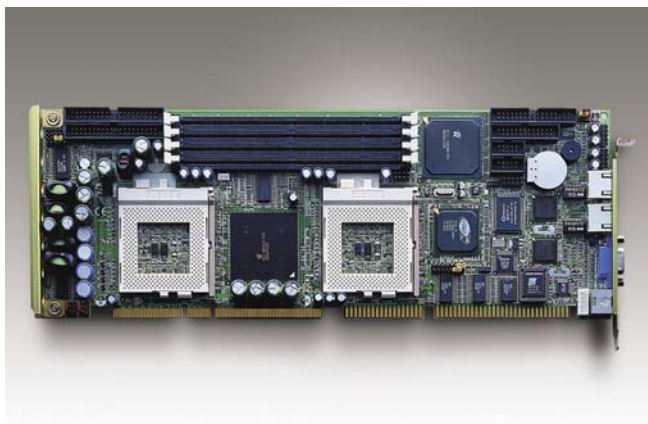
Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6



### Features

- Dual Socket 370 Intel® Pentium® III up to 1.26 GHz
- Up to 4 GB registered SDRAM
- Onboard high performance VGA with 8 MB SGRAM
- Supports dual 10/100Base-T Ethernet, Intel 82559 controller
- 64-bit/66 MHz PCI bus interface
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel Pentium III x 2			
	Max. Speed	1.4 GHz			
	L2 Cache	512/256 KB			
	Chipset	ServerWorks ServerSet 30LE + OSB4			
	BIOS	Award 2 Mb Flash			
Bus	Front Side Bus	100/133 MHz			
	PCI	64-bit/66 MHz			
	ISA	HISA (ISA high drive)			
	Technology	PC-133/100 registered SDRAM with ECC support			
Memory	Max. Capacity	4 GB			
	Socket	168-pin DIMM x 4			
Graphic	Controller	ATI RAGE XL			
	VRAM	8 MB SGRAM			
Ethernet	Interface	10/100Base-T			
	Controller	Intel 82559 x 2			
	Connector	RJ-45 x 2			
EIDE	Mode	ATA 33			
	Channel	2 (Max. 4 devices)			
I/O Interface	USB	Max. 4 (USB 1.1 compliant)			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
	PS/2	1 (for mouse and keyboard, Y cable included)			
Watchdog Timer	Output	Interrupt, system reset			
	Interval	Programmable, 1 ~ 63 sec.			
Miscellaneous	Solid State Disk	IDE flash disk			
Power Requirement	Typical	Dual Pentium III 1 GHz, 2 GB SDRAM			
		+5 V	-5 V	+12 V	-12 V
		12.3 A	0.1 A	0.1 A	0.4 A
	Environment	Operating	Non-Operating		
Physical	Temperature	0 ~ 60 °C (32 ~ 140 °F)			
	Dimensions	338 x 122 mm (13.3" x 4.8")			

### Ordering Information

Part Number	HISA	VGA (PCI)	SCSI	LAN
PCA-6278V-00A1	V	V	--	--
PCA-6278VE-00A1	V	V	--	Single
PCA-6278E2-00A1	V	V	--	Dual

### Packing List

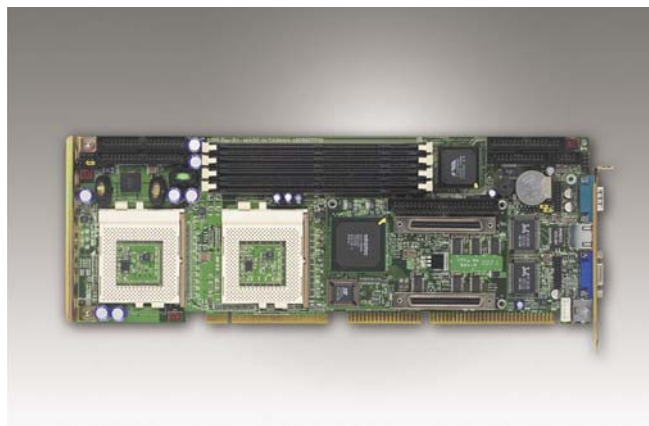
▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400607
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

### Accessory Options

▪ USB cable with 2 ports	1700100170
▪ CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100

# PCA-6277-B

**Dual Socket 370 Pentium® III Processor Card with VGA/Dual LAN/SCSI/HISA (100/133 MHz FSB)**



## Features

- Dual Socket 370 Intel® Pentium® III up to 1.4 GHz
- VIA Apollo Pro133T 100/133 MHz FSB
- On-board high performance AGP 4X VGA with 32 MB SDRAM
- Supports dual 10/100 Base-T Ethernet, Realtek 8139C controller
- On-board Adaptec AIC-7899 dual-channel Ultra 160 up to 160 MB/sec.
- On-board hardware monitoring
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

## Specifications

Processor System	CPU	Intel Pentium III x 2			
	Max. Speed	1 GHz			
	L2 Cache	256 KB			
	Chipset	VIA Apollo Pro133A			
	BIOS	Award 2 Mb Flash			
Bus	Front Side Bus	100/133 MHz			
	PCI	32-bit/33 MHz			
	ISA	HISA (ISA high drive)			
Memory	Technology	PC-133/100 SDRAM with ECC support			
	Max. Capacity	2 GB			
	Socket	168-pin DIMM x 4			
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)			
	VRAM	32 MB SDRAM			
Ethernet	Interface	10/100Base-T			
	Controller	RTL8139C x 2			
	Connector	RJ-45 x 2			
SCSI	Interface	Ultra 160			
	Controller	Adaptec AIC-7892			
	Max. Data Transfer Rate	160 MB/sec.			
EIDE	Channel	1			
	Mode	ATA 100/66/33			
I/O Interface	Channel	2 (Max. 4 devices)			
	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
Watchdog Timer	PS/2	2 (mouse x 1, keyboard x 1)			
	Output	Interrupt, system reset			
Power Requirement	Interval	Programmable, 1 ~ 63 sec.			
	Typical	Dual Pentium III 1 GHz, 384 MB SDRAM			
Environment		+5 V	-5 V	+12 V	-12 V
		11.8 A	0.1 A	0.5 A	0.1 A
Physical	Operating	Non-Operating			
	Temperature	0 ~ 60 °C (32 ~ 140 °F)			
	Dimensions	-20 ~ 70 °C (-4 ~ 158 °F)			
		338 x 122 mm (13.3" x 4.8")			

## Ordering Information

Part Number	HISA	VGA (PCI)	SCSI	LAN
PCA-6277V-00A1	V	V	--	--
PCA-6277VE-00A1	V	V	--	Single
PCA-6277E2-00A1	V	V	--	Dual
PCA-6277F-00A1	V	V	V	Dual

## Packing List

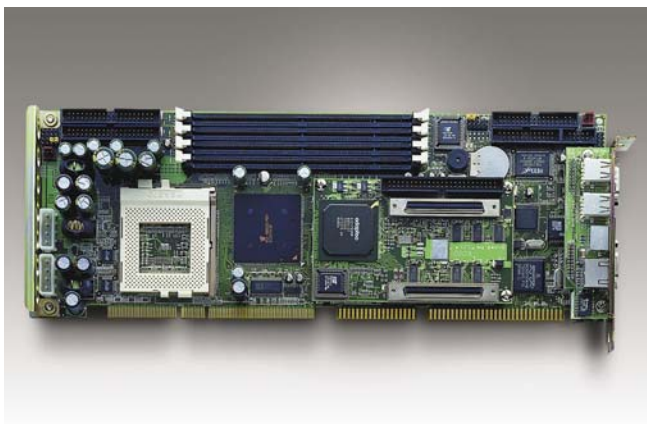
▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard (only for V, VE versions)	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	-

## Accessory Options

▪ USB cable	1700100170
▪ SCSI cable (125 cm) with terminator	1700000182

# PCA-6183

## Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with 64-bit PCI/VGA/Dual LAN/HISA (133 MHz FSB)



### Features

- Socket 370 Intel® Pentium® III/Celeron® up to 1.4 GHz
- Up to 4 GB registered SDRAM
- Onboard high performance VGA with 8 MB SDRAM
- Supports 10/100/1000Base-T Ethernet or dual 10/100Base-T Ethernet, Broadcom 5701/Intel 82559 controller
- 64-bit/66 MHz PCI bus interface
- Onboard hardware monitoring
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	ServerWorks ServerSet 30LC-T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	100/133 MHz	
	PCI	64-bit/66 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-133/100 registered SDRAM with ECC support	
	Max. Capacity	4 GB	
	Socket	168-pin DIMM x 4	
Graphic	Controller	ATI RAGE XL	
	VRAM	8 MB SDRAM	
Ethernet	Interface	10/100Base-T x 2; 10/100/1000Base-T (optional)	
	Controller	Intel 82559 x 2 (FE); Broadcom 5701 (Gigabit)	
	Connector	RJ-45 x 2	
EIDE	Mode	ATA 33	
	Channel	2 (Max. 4 devices)	
SCSI	Interface	Ultra 160 (64-bit PCI)	
	Controller	Adaptec AIC-7899W	
	Max. Data Transfer Rate	160 MB/sec.	
I/O Interface	Channel	2	
	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
Watchdog Timer	PS/2	1 (for L, V, VG, GS versions), 2 (for E2, F versions)	
	Output	Interrupt, system reset	
Miscellaneous	Interval	Programmable, 1 ~ 63 sec.	
	Solid State Disk	IDE flash disk	
Power Requirement	Typical	Pentium III 1.26 GHz, 4 GB SDRAM	
		+5 V	+12 A
		8 A	0.5 A
Environment	Operating		-12 V
	Non-Operating		0.3 A
Physical	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (PCI)	SCSI	Fast Ethernet LAN	Gigabit LAN
PCA-6183L-00A1	V	--	--	--	--
PCA-6183V-00A1	V	V	--	--	--
PCA-6183E2-00A1	V	V	--	Dual	--
PCA-6183VG-00A1	V	V	--	--	Single
PCA-6183F-00A1	V	V	V	Dual	--
PCA-6183GS-00A1	V	V	V	--	Single

### Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard (only for L, V, VG, GS versions)	X 1	1700060202
▪ Single-slot bracket	X 1	1962159010
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

### Accessory Options

▪ USB cable with 2 ports	1700100170
▪ USB extension module with 4 ports (only for V, VG, GS versions)	PCA-USB4-00A1
▪ SCSI cable (125 cm) with terminator	1700000182
▪ CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

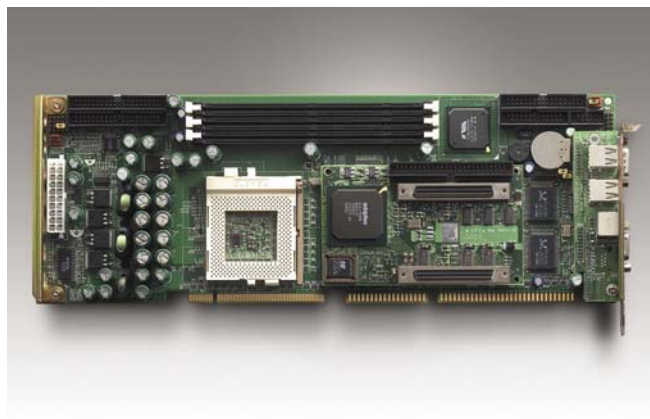
Industrial Computer Chassis 5

Industrial Computer Peripherals 6



# PCA-6181

## Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with VGA/ Dual LAN/SCSI/HISA (133 MHz FSB)



### Features

- Socket 370 Intel® Pentium® III/Celeron® up to 1.4 GHz
- VIA Apollo Pro 133T 66/100/133 MHz FSB
- Onboard high performance AGP 4X VGA with 32 MB SDRAM
- Supports dual 10/100Base-T Ethernet, Realtek 8139C controller
- Onboard Adaptec AIC-7899 dual channel Ultra 160 SCSI up to 160 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.2 GHz
	L2 Cache	512/256 KB	128/256 KB
	Chipset	VIA Apollo Pro133T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66/100/133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-133/100 SDRAM with ECC support	
	Max. Capacity	1.5 GB	
	Socket	168-pin DIMM x 3	
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)	
	VRAM	32 MB SDRAM	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C x 2	
	Connector	RJ-45 x 2	
SCSI	Interface	Ultra 160	
	Controller	Adaptec AIC-7899	
	Max. Data Transfer Rate	160 MB/sec.	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for L, V, VE, ES versions), 2 (for E2, F versions)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Power Requirement	Typical	Pentium III 1 GHz, 256 MB SDRAM	
		+5 V 6.8 A	+12 V 0.4 A
Environment	Operating	0 ~ 60 °C (32 ~ 140 °F)	Non-Operating
	Temperature		-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6181L-00A1	V	--	--	--
PCA-6181V-00A1	V	V	--	--
PCA-6181VE-00A1	V	V	--	Single
PCA-6181E2-00A1	V	V	--	Dual
PCA-6181ES-00A1	V	V	V	Single
PCA-6181F-00A1	V	V	V	Dual

### Packing List

• FDD cable	X 1	1700340640
• IDE HDD cable	X 2	1701400452
• Printer + COM cable	X 1	1701260305
• Y cable for PS/2 mouse & keyboard (only for L, V, VE, ES versions)	X 1	1700060202
• Jumper pack	X 1	9689000068
• Startup manual	X 1	--
• Utility CD	X 1	--

### Accessory Options

• USB cable with 2 ports	1700100170
• USB extension module with 4 ports (only for V, VE, ES versions)	PCA-USB4-00A1
• SCSI cable (125 cm) with terminator	1700000182
• CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100

# PCA-6180-B

Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with VGA/ Dual LAN/SCSI/HISA (133 MHz FSB)

Industrial Motherboard 1

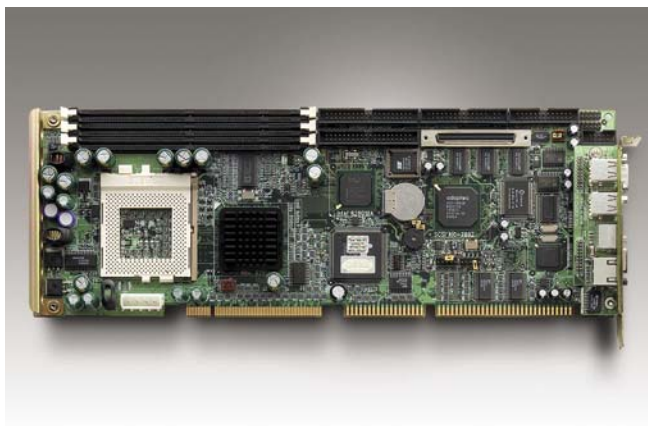
Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6



## Features

- Socket 370 Pentium® III/Celeron® up to 1.4 GHz
- Intel® 815E (B) 100/133 MHz FSB
- Onboard integrated VGA controller, shared system memory architecture
- Supports dual 10/100Base-T Ethernet, Intel 82559/82562 controller
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

## Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.3 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	Intel 815E	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	66/100/133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-133/100 SDRAM	
	Max. Capacity	512 MB	
	Socket	168-pin DIMM x 3	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Dynamically shared system memory	
Ethernet	Interface	10/100Base-T	
	Controller	LAN 1: Chipset Built-in MAC with external PHY (Intel 82562), LAN 2: Intel 82559	
	Connector	RJ-45 x 2	
SCSI	Interface	Ultra 160	
	Controller	Adaptec AIC-7892	
	Max. Data Transfer Rate	160 MB/sec.	
EIDE	Channel	1	
	Mode	ATA 100/66/33	
I/O Interface	Channel	2 (Max. 4 devices)	
	USB	4 onboard (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
Watchdog Timer	PS/2	2 (for mouse and keyboard, Y cable included)	
	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 255 sec.	
Power Requirement	Typical	Pentium III 866 MHz, 128 MB SDRAM	
		+5 V                      +12 V                      -12 V	
		6 A                        0.4 A                        0.1 A	
Environment	Operating		Non-Operating
	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

## Ordering Information

Part Number	HISA	VGA	SCSI	LAN
PCA-6180E-00B1	V	V	--	Single
PCA-6180E2-00B1	V	V	--	Dual
PCA-6180ES-00B1	V	V	V	Single
PCA-6180F-00B1	V	V	V	Dual

## Packing List

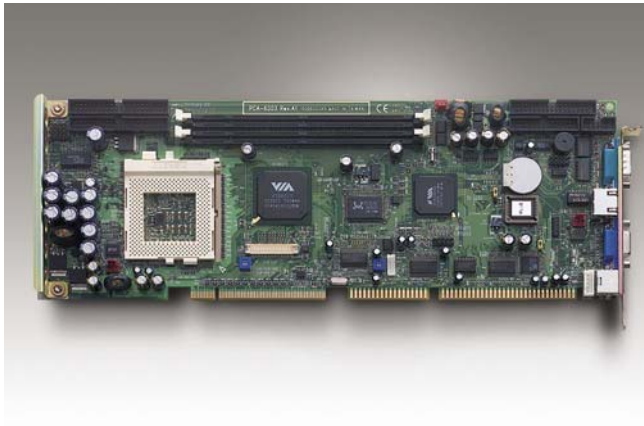
▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ ATX-to-PS/2 power cable	X 1	1700000450
▪ Y cable for PS/2 mouse & keyboard	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD X 1	--	

## Accessory Options

▪ USB cable with 2 ports	1700100170
▪ SCSI cable (125 cm) with terminator	1700000182
▪ CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100

# PCA-6003

**Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with VGA/ LAN/HISA/LCD (133 MHz FSB)**



## Features

- Cost-effective Socket 370 SBC with full features
- Pentium® III up to 1.4 GHz, Celeron® up to 1.3 GHz
- VIA Apollo PLE133T chipset, supports 66/100/133 MHz FSB
- Two DIMM Sockets for SDRAM up to 1 GB
- Onboard AGP/VGA
- Onboard 10/100Base-T networking controller
- Optional ISA high drive (HISA)

## Specifications

Processor System	CPU	Intel® Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.3 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	VIA Apollo PLE133T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66/100/133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive), only for PCA-6003H-00A1	
Memory	Technology	PC-133/100 SDRAM	
	Max. Capacity	1 GB	
	Socket	168-pin DIMM x 2	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	shared system memory up to 8 MB	
	LCD	Optional 18-bit TFT LCD support	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C	
	Connector	RJ-45	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)	
	Typical	Pentium III 1 GHz, 256 MB SDRAM	
Power Requirement	+5 V	6.8 A	+12 V 400 mA
	Operating	Non-Operating	
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
	Physical	Dimensions	
		338 x 122 mm (13.3" x 4.8")	

## Ordering Information

Part Number	HISA	VGA	LAN	LCD
PCA-6003V-00A1	--	v	--	--
PCA-6003VE-00A1	--	v	v	--
PCA-6003H-00A1	v	v	v	v

## Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

## Accessory Options

▪ USB cable with 2 ports	1700100170
▪ Audio extension module	PCA-AUDIO-00A1
▪ CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	759254100

# PCA-6178-C

Socket 370 Pentium® III/Celeron® Processor Card with VGA/LAN/SCSI/HISA (66/100 MHz FSB)

Industrial Motherboard 1

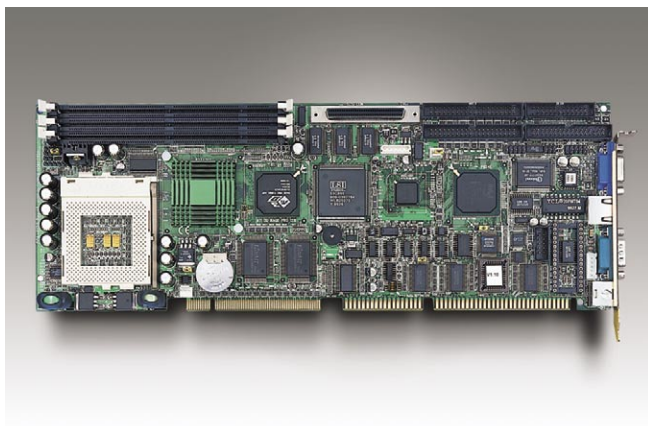
Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6



## Features

- Socket 370 Pentium® III/Celeron® up to 1.0 GHz/1.1 GHz
- Intel® 440BX chipset 66/100 FSB
- Onboard high performance AGP 2X VGA with 4/8 MB SGRAM
- Supports 10/100Base-T Ethernet, Intel 82559 controller
- Onboard Symbios SYM53C895 Ultra2 SCSI up to 80 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

## Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.0 GHz	1.1 GHz
	L2 Cache	256 KB	128 KB
	Chipset	Intel 440BX	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66/100 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-100 SDRAM with ECC support	
	Max. Capacity	768 MB	
	Socket	168-pin DIMM x 3	
Graphic	Controller	ATI RAGE XL (AGP 2X)	
	VRAM	8 MB	
Ethernet	Interface	10/100Base-T	
	Controller	Intel 82559	
	Connector	RJ-45	
SCSI	Interface	Ultra2 wide	
	Controller	Symbios SYM53C895	
	Max. Data Transfer Rate	80 MB/sec.	
	Channel	1	
EIDE	Mode	ATA 33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Solid State Disk	M-systems' DOC 2000 (144 MB)	
	Typical	Pentium III 700 MHz, 192 MB SDRAM	
Power Requirement		+5 V	+12 V
		5.2 A	0.4 A
		-12 V	0.1 A
Environment		Operating	Non-Operating
	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
Physical		338 x 122 mm (13.3" x 4.8")	
	Dimensions		

## Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6178L-00C1	V	--	--	--
PCA-6178V-00C1	V	V	--	--
PCA-6178VE-00C1	V	V	--	V
PCA-6178VS-00C1	V	V	V	--
PCA-6178F-00C1	V	V	V	V

## Packing List

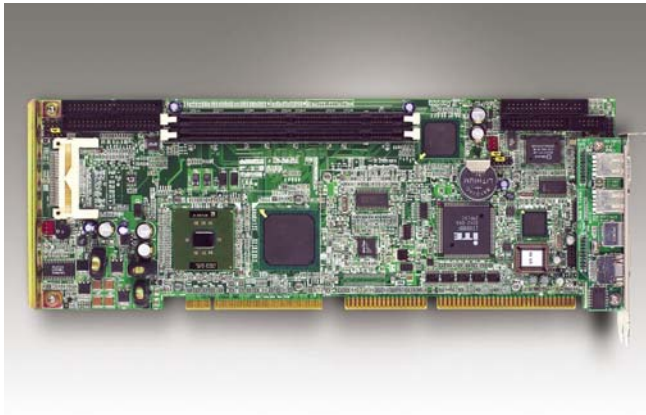
CPU fan	X 1	1759207200
FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400607
Printer + COM cable	X 1	1701260305
ATX-to-PS/2 power cable	X 1	1700000450
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

## Accessory Options

USB cable with 2 ports	1700100170
SCSI cable (125 cm) with terminator	1700000182

# PCA-6002-B

## Ultra Low Voltage Celeron® (Tualatin) Processor Card with VGA/Dual LAN/ HISA (100 MHz FSB)



### Features

- Onboard Ultra Low Voltage Celeron® (Tualatin)
- Fanless operation
- Intel® 815E 100 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports dual 10/100Base-T Ethernet, Intel 82551QM/82562ET controller
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- Supports Type I/II CompactFlash

### Specifications

Processor System	CPU	Celeron (Tualatin)		
	Max. Speed	400/650 MHz		
	L2 Cache	256 KB		
	Chipset	Intel 815E + ICH2		
	BIOS	Award 4 Mb FWH		
Bus	Front Side Bus	100 MHz		
	PCI	32-bit/33 MHz		
	ISA	HISA (ISA high drive)		
Memory	Technology	PC-133/100 SDRAM		
	Max. Capacity	512 MB		
	Socket	168-pin DIMM x 2		
Graphic	Controller	Chipset integrated VGA controller		
	VRAM	Dynamically shared system memory		
Ethernet	Interface	10/100Base-T		
	Controller	LAN 1: Chipset Built-in MAC with external PHY (Intel 82562ET) LAN2: Intel 82551QM		
	Connector	RJ-45 x 2		
EIDE	Mode	ATA 100/66/33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2 version		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	1 (for VE version), 2 (for E2 version)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable, 1 ~ 255 sec.		
Miscellaneous	Solid State Disk	CompactFlash socket((Type I/II)		
	Typical	Celeron 650 MHz, 256 MB SDRAM		
Power Requirement	+5 V	-5 V	+12 V	-12 V
	3.4 A	0.1 A	0.2 A	0.2 A
Environment	Temperature	Operating	Non-Operating	
		0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)	
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")		

### Ordering Information

Part Number	Processor	HISA	VGA (AGP)	LAN
PCA-6002VE-00B1	Celeron 400 MHz	V	V	Single
PCA-6002E2-00B1	Celeron 400 MH	V	V	Dual
PCA-6002VE-03B1	Celeron 650 MHz	V	V	Single
PCA-6002E2-03B1	Celeron 650 MHz	V	V	Dual

### Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard (only for VE version)		1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

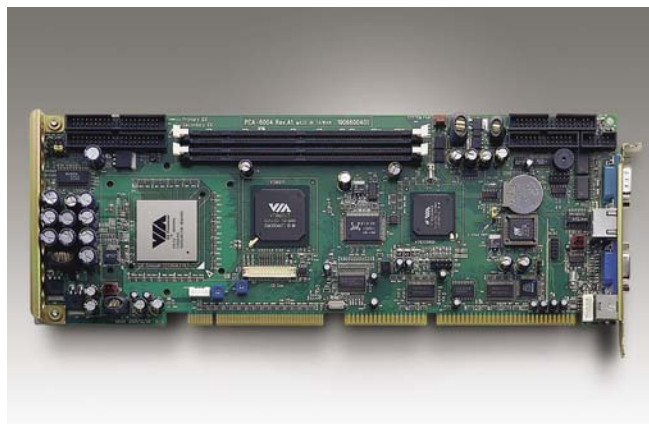
### Accessory Options

▪ USB cable with 2 ports	1700100170
▪ USB extension module with 4 ports (only for VE version)	PCA-USB4-00A1



# PCA-6004

VIA C3 800 MHz Card with VGA/LAN/  
HISA/LCD (133 MHz FSB)



## Features

- Embedded low-power C3 800 MHz CPU
- Fanless operation (external cooling required)
- VIA Apollo PLE133T chipset, 133 MHz FSB
- Dual DIMM sockets for SDRAM up to 1 GB
- Onboard AGP/VGA
- Onboard 10/100Base-T networking controller
- Optional ISA high drive (HISA)

## Specifications

Processor System	CPU	VIA C3 EBGA			
	Max. Speed	800 MHz			
	L2 Cache	L1 128 KB, L2 64 KB			
	Chipset	VIA Apollo PLE 133T + 686 B			
	BIOS	Award 2 Mb Flash			
Bus	Front Side Bus	133 MHz			
	PCI	32-bit/33 MHz			
	ISA	HISA (ISA high drive), only for PCA-6004H-00A1			
Memory	Technology	PC-133/100 SDRAM			
	Max. Capacity	1 GB			
	Socket	168-pin DIMM x 2			
Graphic	Controller	Chipset integrated VGA controller			
	VRAM	Shared system memory up to 8 MB			
	LCD	Optional 18-bit TFT LCD support			
Ethernet	Interface	10/100Base-T			
	Controller	RTL8139C			
	Connector	RJ-45			
EIDE	Mode	ATA 100/66/33			
	Channel	2 (Max. 4 devices)			
I/O Interface	USB	2 (USB 1.1 compliant)			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP)			
	FDD	1			
	PS/2	1 (for mouse and keyboard, Y cable included)			
Watchdog Timer	Output	Interrupt, system reset			
	Interval	Programmable, 1 ~ 63 sec.			
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)			
Power Requirement	Typical	128 MB SDRAM			
		+5 V	-5 V	+12 V	-12 V
		3.1 A	0.1 A	0.1 A	0.2 A
Environment	Temperature	Operating	Non-Operating		
		0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)		
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")			

## Ordering Information

Part Number	HISA	VGA	LAN	LCD
PCA-6004V-00A1	--	V	--	--
PCA-6004VE-00A1	--	V	V	--
PCA-6004H-00A1	V	V	V	V

## Packing List

▪ FDD cable	X 1	1700340640
▪ IDE HDD cable	X 2	1701400452
▪ Printer + COM cable	X 1	1701260305
▪ Y cable for PS/2 mouse & keyboard	X 1	1700060202
▪ Jumper pack	X 1	9689000068
▪ Startup manual	X 1	--
▪ Utility CD	X 1	--

## Accessory Options

▪ USB cable with 2 ports	1700100170
▪ Audio extension module	PCA-AUDIO-00A1

Industrial  
Motherboard 1

Industrial  
VGA Card 2

Industrial  
Motherboard  
Chassis 3

Full-sized  
CPU Cards 4

Industrial  
Computer  
Chassis 5

Industrial  
Computer  
Peripherals 6

# Industrial Computer Chassis



ACP-1120



ACP-1000



ACP-2000



IPC-602



ACP-4000

## Selection Guide

Model Names		ACP-1120	ACP-1000	ACP-2000	IPC-602	ACP-4000
Specifications						
Height (1U=1.75")		1U	1U	2U	2U	4U
No. of Slots/No.full sized card		3/3	3/3	6/6	6/6	14/11
Drive bay	siln CD-ROM	1	1	1(0)	-	-
	3.5"	2/2	2	2(1)	2	1
	5.25"			0(1)	1	3
Cooling	No. of Fans	4	4	2	2	2
	CFM	10/Each	10/Each	47/Each	42/Each	84/Each
ISA Backplanes		-	-	-	-	-
PICMG Backplanes		-	-	1 Segment	1 Segment	1 Segment
Power	AC 110/220 V Input	200W ATX/PFC	200W ATX/PFC	300W ATX/PFC 300W ATX/PFC RPS	250W ATX/PFC 260W AT 300W ATX/PFC 400W ATX/PFC	300W ATX/PFC 400W ATX/PFC 300W ATX/PFC RPS
	DC -48V Input	180W	-	310W AT	310W AT	310W AT
System Fault Detection		NO	NO	Yes	No	Yes
Dimension (WxHxD)	(Mm)	482 x 44 x 629	482 x 44 x 500	482 x 88 x 450	482 x 88 x 450	482 x 177 x 480
	(Inches)	19 x 1.7 x 24.8	19 x 1.7 x 19.7	19 x 3.46 x 17.7	19 x 3.5 x 17.7	19 x 7 x 18.9
Weight	(Kg)	8	6	10.2	10	14
	(lb)	17.6	13.2	22.5	22.0	30.8
Reference Page		5-4	5-6	5-8	5-10	5-12



ACP-4060



IPC-623



IPC-616



IPC-615



IPC-611



IPC-610-L

- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

ACP-4060	IPC-623	IPC-616	IPC-615	IPC-611	IPC-610-L
4U	4U	4U	4U	4U	4U
14/11	20/20	14/10	15/15	14/10	14/11
-	-	-	-	-	-
0	2	2	1	1	1
3	3	3	2	3	3
2	3	2	2	1	1
84/Each	86/Each	53/Each	86/Each	84	84
-	1/2/4 Segment	-	1 Segment	1 Segment	1 Segment
1 Segment	1/2/4 Segment	1 Segment	1 Segment	1 Segment	1 Segment
250W ATX/PFC 300W ATX/PFC	400W AT 300W AT RPS 400W ATX/PFC RPS 400W ATX RPS	300W ATX/PFC 400W ATX/PFC	300W AT 300W ATX/PFC 400W ATX/PFC 250W AT RPS	250W ATX/PFC 300W ATX/PFC	250W ATX/PFC 300W ATX/PFC
-	-	310W AT	310W AT	-	-
No	Yes	Yes	Yes	No	No
482 x 177 x 480	482 x 177 x 660	482 x 177 x 478	482 x 177 x 478	482 x 177 x 480	482 x 177 x 480
19 x 7 x 18.9	19 x 7 x 26	19 x 7 x 18.8	19 x 7 x 18.8	19 x 7 x 18.9	19 x 7 x 18.9
18	26	16	20	10.2	10.2
39.6	57.2	35.2	44	22.5	22.5
5-14	5-16	5-18	5-20	5-22	5-24

# Industrial Computer Chassis



IPC-610-H



IPC-610-F



ACP-5260



IPC-622



ACP-7000

## Selection Guide

Model Names		IPC-610-H	IPC-610-F	ACP-5260	IPC-622	ACP-7000
<b>Specifications</b>						
Height (1U=1.75")		4U	4U	5U	6U	7U
No. of Slots/No.full sized card		14/11	14/11	20/20	20/20	20/20
Drive bay	siln CD-ROM	-	-	1	-	1
	3.5"	1	1	1/6	0	1/6
	5.25"	3	3	1	4	2
Cooling	No. of Fans	2	1	5	4	4
	CFM	84/Each	86	46/114	49/Each	57/Each
ISA Backplanes		1 Segment	1 Segment	1 Segment	1/2/4 Segment	1/2/4 Segment
PICMG Backplanes		1 Segment	1 Segment	1 Segment	1/2/4 Segment	1/2/4 Segment
Power	AC 110/220 V Input	300W ATX/PFC 300W ATX/PFC RPS	250W ATX/PFC 260W AT 300W ATX/PFC 400W ATX/PFC 250W AT RPS	460W ATX/PFC RPS	400W ATX/PFC 300W AT RPS 400W ATX/PFC RPS 400W ATX RPS	460W ATX/PFC RPS 570W ATX/PFC RPS (2+1) 810W ATX/PFC RPS (3+1)
	DC 24/48 Input	-	310W AT	-	300W AT RPS	-
System Fault Detection		No	No	Yes	Yes	Yes
Dimension	(mm)	482 x 177 x 480	482 x 177 x 452	482 x 222 x 660	483 x 266 x 462	482 x 307 x 500
	(WxHxD)	(inches)	19 x 7 x 18.9	19 x 7 x 17.8	19 x 8.75 x 26	19 x 10.5 x 18
Weight	(Kg)	10.2	10.2	30	30	35
	(lb)	22.5	22.5	66	66	77
Reference Page		5-26	5-28	5-30	5-32	5-34

Industrial  
Motherboard **1**

Industrial  
VGA Card **2**

Industrial  
Motherboard  
Chassis **3**

Full-sized  
CPU Cards **4**

Industrial  
Computer  
Chassis **5**

Industrial  
Computer  
Peripherals **6**



IPC-6908



IPC-6608



IPC-6806



IPC-6606



IPC-644



MBPC-641

IPC-6908	IPC-6608	IPC-6806	IPC-6606	IPC-644	MBPC-641
8/8	8/8	6/6	6/6	4/0	4/0
-	-	-	-	-	-
2	1	2	2	2	0
2	2	0	1	0	0
2	1	1	1	2	1
49/Each	86	49	49	49/19	49
1 Segment	1 Segment	1 Segment	1 Segment	1 Segment	1 Segment
1 Segment	1 Segment	1 Segment	1 Segment	-	-
260W AT 250W ATX/PFC 300W ATX/PFC 400W ATX/PFC 250W AT RPS	260W AT 250W ATX/PFC 300W ATX/PFC	200 W AT/PFC	250W ATX/PFC 300W ATX/PFC	60W	60W
310W AT DC48V	-	-	-	60W DC24/48V	60W DC24/48V
Yes	No	No	No	No	No
200 x 300 x 463	173 x 315 x 410	166 x 170 x 393	173 x 254 x 396	135 x 209 x 305	114 x 197 x 245
7.9 x 11.8 x 18.2	6.8 x 12.4 x 16.1	6.5 x 6.7 x 15.4	6.8 x 10 x 15.6	5.3 x 8.2 x 12	4.5 x 7.8 x 9.6
12	5.6	5.6	6.2	3.8	2.8
26.4	12.3	12.3	13.6	8.4	6.2
5-36	5-38	5-40	5-42	5-44	5-46



# ACP-1120

## 1U 2-PCI 64/32-bit Rackmount Chassis with IDE Data Mirroring



### Features

- Compact 1U high rackmount chassis, ideal building block for business expansion
- Dual hot-swappable IDE drives for data mirroring backup and low total cost of ownership
- Easy installation disk drive bay holds one slim CD-ROM and one 3.5" disk drive
- Butterfly backplane design supports 2 full-length PCI expansion slots
- Four abundant cooling fans designed to minimize downtime

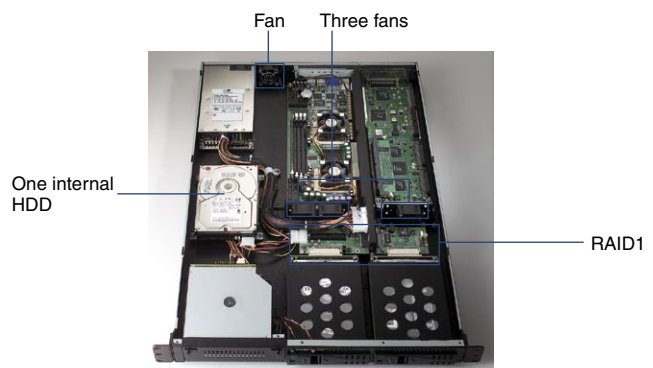
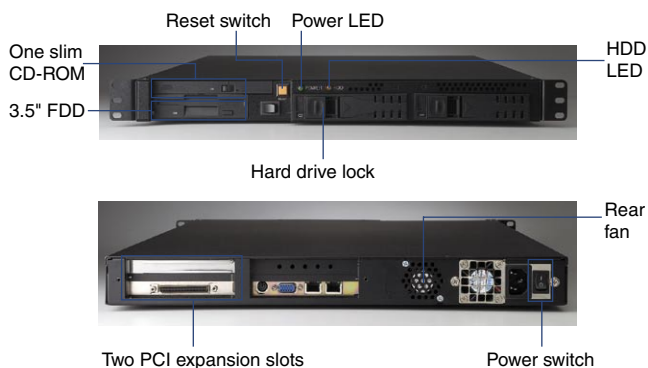


### Introduction

APC-1120 is a rack-optimized 1U-high industrial computer chassis that offers superior performance and scalability for enterprise users who want to expand their businesses without increasing the data center space. Supporting dual hot-swappable IDE hard drives for data mirroring backup, the chassis is an ideal server for infrastructure and Web-hosting applications. The efficient cooling design keeps the system away from over-heating. For fast-growing Internet service providers and corporate enterprise users, ACP-1120 will satisfy as an e-server platform for internet/intranet and file and print server. The ultra-thin server with 1U form factor delivers rack space optimization without sacrificing performance, expandability, serviceability or manageability.

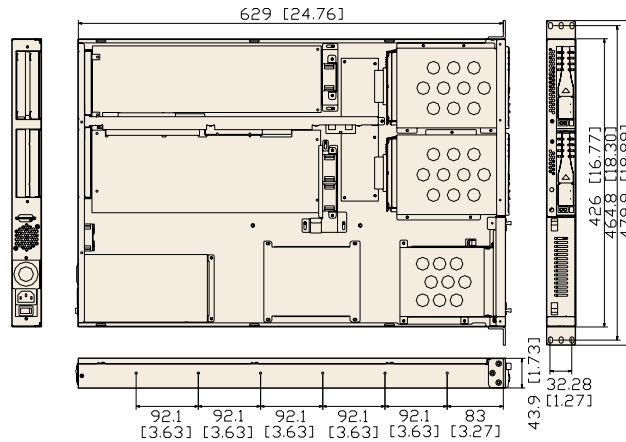
### Specifications

Drive Bay	3.5"	Front-accessible	Internal
	Slim CD-ROM	2 (hot-swap), 1	1
RAID	Level	1 (data mirroring)	
	Auto Rebuilding	Yes	
Cooling	Fan	4 (10 CFM/each)	
Miscellaneous	Rear Panel	D-SUB 9-pin bracket	
Environment	Temperature	Operating	Non-Operating
	Humidity	0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Vibration (5-500 Hz)	--	10 ~ 95 % @ 40 °C, non-condensing
	Shock	1 Grms	2 G
	Acoustic Noise	10 G (with 11 ms duration, half sine wave)	30 G
	Altitude	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
Physical	Dimensions (W x H x D)	482 x 44 x 629 mm (19" x 1.7" x 24.76")	
	Weight	8.0 Kg (17.6 lb)	



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications				MTBF
			Output	Mini-load	Safety		
1757920000 (ATX, PFC)	200 W	AC 90 ~ 264 V (Full-range)	+5 V @ 16 A +3.3 V @ 14 A +12 V @ 9 A -12 V @ 0.7 A -5 V @ 0.2 A +5 Vsb @ 1.5 A	+5 V @ 2 A +12 V @ 1 A -5 V @ 0.1 A -12 V @ 0.1 A +3.3 V @ 0.1 A	UL/cUL/CE EN61000-3-2 Class D/TUV/ CCC	100,000 hours @ 25 °C	
1757918000 (ATX)	180 W	-40V <sub>DC</sub> ~ -56V <sub>DC</sub>	+5 V @ 20 A +3.3 V @ 12 A +12 V @ 7 A -12 V @ 1 A -5 V @ 0.5 A +5 Vsb @ 1.5 A	+5 V @ 2 A +12 V @ 1 A -5 V @ 0.1 A -12 V @ 0.1 A +3.3 V @ 1 A +5 Vsb @ 0.1 A	UL/cUL/CE EN61000-3-2 Class D/TUV/ CCC	100,000 hours @ 25 °C	

## Storage Device Options

Part Number	Descriptions
SCD-ROM	Slim-type CD-ROM kit with 40-pin IDE connector
9684000014	3.5" FDD with black bezel

## Accessory Options

Part Number	Descriptions
1759209201	Low profile PIII socket 370 CPU cooler up to 1 GHz
1759254100	Low profile Tualatin socket 370 CPU cooler from 1 GHz to 1.26 GHz
1759252100	Low profile P4 socket 478 CPU cooler up to 2.5 GHz
1759214200	Low profile P4 socket 478 CPU cooler up to 2.8 GHz

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
ACP-1120P2-20Z	1757920000	PCA-6103P2V-0A1 (Two 32-bit PCI slot for expansion)	UL,cUL,CE
ACP-1120X2-20Z	1757920000	PCA-6103P2VX-B2 for 64-bit Full-sized CPU Cards only (Two 64-bit PCI slot for expansion)	UL,cUL,CE
ACP-1120P2-18D	1757918000	PCA-6103P2V-0A1 (Two 32-bit PCI slot for expansion)	UL,cUL,CE
ACP-1120X2-18D	1757918000	PCA-6103P2VX-B2 for 64-bit full-sized CPU cards only (Two 64-bit PCI slot for expansion)	UL,cUL,CE



Removable cover Two hot-swappable HDDs

# ACP-1000

## 1U 2-PCI 64/32-bit Rackmount Chassis with Front-accessible USB/PS2 Connector



### Features

- Compact 1U-high rackmount chassis, ideal building block for business expansion
- Easy installation disk drive bay holds a slim CD-ROM and 3.5" disk drive
- Supports up to two 64-bit PCI expansion slots
- Four abundant cooling fans designed for cooling the system to minimize downtime

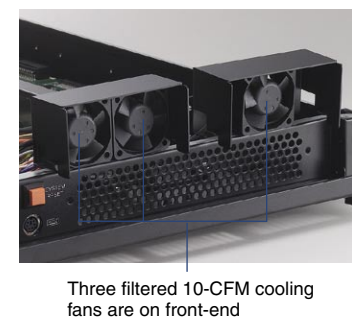
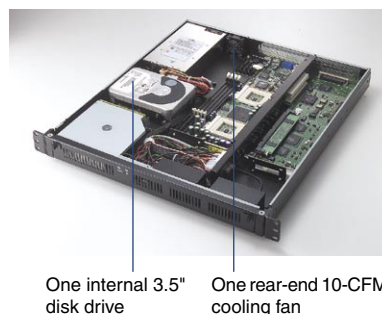


### Introduction

ACP-1000 is a reliable and stable 1U-high 3-slot 19" rackmount industrial computer chassis. This chassis can support up to two 64-bit PCI expansion slots and comes with a 200W ATX PFC power supply. In addition, four abundant cooling fans are included to form a front-to-rear air flow for outstanding ventilation. A front-access USB and PS/2 design is added to facilitate maintenance and access of the unit. Moreover, ACP-1000 can accommodate various Intel® Pentium® 4 CPU cards, making it the most powerful yet ultra compact 1U server.

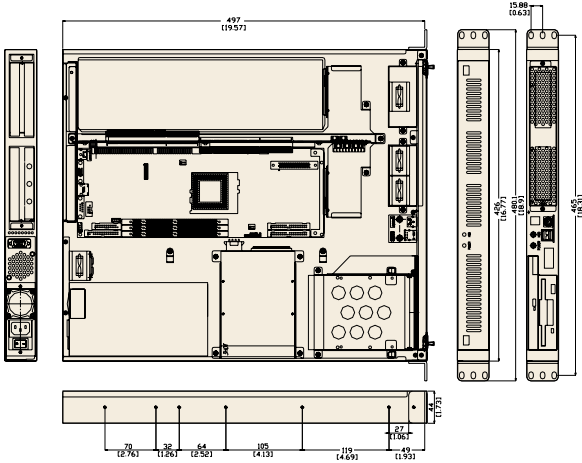
### Specifications

Drive Bay	Slim CD-ROM 3.5"	Front-accessible	Internal
		1	1
Cooling	Fan Air Filter	Front-accessible	Rear Panel
		3 (10 CFM/each)	1 (10 CFM)
		Yes	--
I/O Interface	USB PS/2	2 (front-accessible)	
		1 (keyboard x 1, front-accessible)	
Environment	Temperature Humidity Vibration (5-500 Hz) Shock Acoustic Noise Altitude	Operating	Non-Operating
		0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
		--	10 ~ 95 % @ 40 °C, non-condensing
		1 Grms	2 G
		10 G (with 11 ms duration, half sine wave)	30 G
		Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
Physical	Dimensions (W x H x D) Weight	482 x 44 x 500 mm (19" x 1.7" x 19.7")	
		6.0 Kg (13.2 lb)	



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

**Dimension Diagram**



Unit: mm (inch)

**Power Supply Options**

Part Number	Watt	Input	Specifications			MTBF
			Output	Mini-load	Safety	
1757920000 (ATX, PFC)	200 W	AC 90 ~ 264 V (Full-range)	+5 V @ 16 A +3.3 V @ 14 A +12 V @ 9 A -12 V @ 0.7 A -5 V @ 0.2 A +5 Vsb @ 1.5 A	+5 V @ 2 A +12 V @ 1 A -5 V @ 0.1 A -12 V @ 0.1 A +3.3 V @ 0.1 A	UL/cUL/CE EN61000-3-2 Class D/TUV/ CCC	100,000 hours @ 25 °C

**Storage Device Options**

Part Number	Descriptions
SCD-ROM	Slim-type CD-ROM kit with 40-pin IDE connector
9684000014	3.5" FDD with black bezel

**Ordering Information**

Part Number	With Power Supply	With Backplane	Regulation
ACP-1000P2-20Z	1757920000	PCA-6103P2V-0A1 (Two 32-bit PCI slot for expansion)	UL, cUL, CE
ACP-1000X2-20Z	1757920000	PCA-6103P2VX-B2 for 64-bit Full-Sized CPU Cards only (Two 64-bit PCI slot for expansion)	UL, cUL, CE



Butterfly backplane design supports two full-length 64-bit PCI expansions

**Accessory Options**

Part Number	Descriptions
9689000535	1U slide rail for ACP-1000 only
1759209201	Low profile PIII socket 370 CPU cooler up to 1 GHz
1759254100	Low profile Tualatin socket 370 CPU cooler from 1 GHz to 1.26 GHz
1759252100	Low profile P4 socket 478 CPU cooler up to 2.5 GHz
1759214200	Low profile P4 socket 478 CPU cooler up to 2.8 GHz



One 10-CFM cooling fan is on rear-end

# ACP-2000

## 2U 6-slot/5-slot Rackmount Chassis with Front-accessible USB/PS2 Connector



### Features

- Compact 2U-high rackmount chassis, ideal building block for business expansion
- Shock-resistant disk drive bay holds one slim CD-ROM and two 3.5" disk drives for data mirroring
- Butterfly backplane design supports 3-slot or 4-slot PCI expansion
- Flexible mechanical design supports 300 W ATX PFC PS/2 power supply and 300 W ATX PFC redundant power supply
- Special modular design allows users to maintain the system with minimum downtime

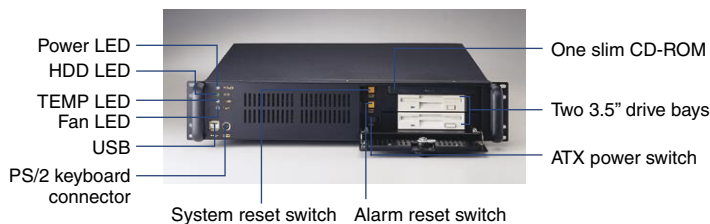


### Introduction

ACP-2000 is a compact, yet rugged 2U-high 19" rackmount industrial computer chassis designed for space-conscious applications. Customers can expand their business without worrying about space efficiency because ACP-2000 is only 2U-high and satisfies CT, voice portal, high-density voice processing and networking application requirements. Fast-growing Internet service providers and corporate enterprise customers can use ACP-2000 as eServer platforms for their internet/intranet, proxy, caching, access, DNS, or file and print server. The ultra-thin 2U form factor delivers rack space optimization without sacrificing performance, expandability, serviceability, or manageability.

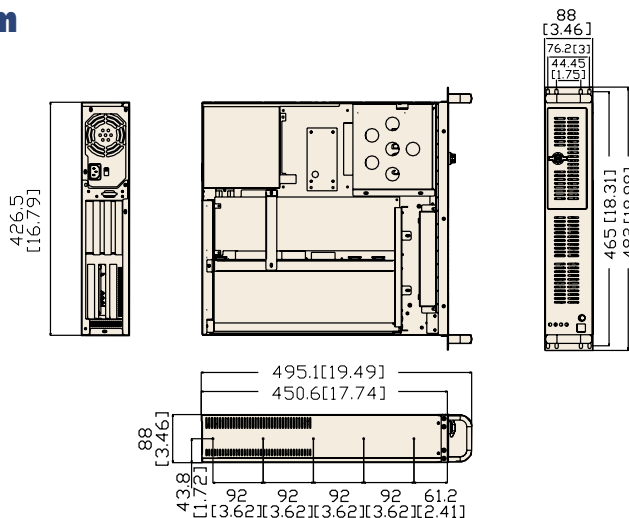
### Specifications

Drive Bay	Slim CD-ROM	Front-accessible	1
	3.5"		2
Cooling	Fan		2 (47 CFM/each)
	Air Filter		Yes
I/O Interface	USB		2 (front-accessible)
	PS/2		1 (keyboard x 1, front-accessible)
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
Environment	Temperature	Operating	0 ~ 40 °C (32 ~ 104 °F)
		Non-Operating	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity		--
			10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)		0.5 Grms
			2 G
Physical	Shock		15 G (with 11 ms duration, half sine wave)
			30 G
	Acoustic Noise		Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)
	Altitude		0 to 3048 m (0 ~ 10,000 ft)
Physical	Dimensions (W x H x D)	482 x 88 x 450 mm (19" x 3.46" x 17.7")	
	Weight	10.2 Kg (22.5 lb)	





## Dimension Diagram



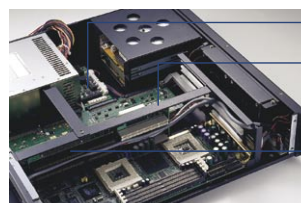
Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
RPS-300ATX-Z (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 25 A +3.3 V @ 18 A +12 V @ 16 A -12 V @ 1.5 A -5 V @ 0.5 A +5 Vsb @ 2 A	+5 V @ 3 A +3.3 V @ 1 A +12 V @ 2 A +5 Vsb @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC Class B CB/CCC	150,000 hours
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A +12 V @ 10 A -5 V @ 1 A -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25° C

## Storage Device Options

Part Number	Descriptions
SCD-ROM	Slim-type CD-ROM kit with 40-pin IDE connector
SCD-FDD-COMBO	Storage kit with slim 24X CD-ROM and standard 3.5" black FDD
9684000014	3.5" FDD with black bezel



- Alarm board
- Hold-down brackets for both SBC and full-length cards
- Butterfly backplane design supports 3-slot or 4-slot PCI expansion

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
ACP-2000P3-00P	Without power supply, with AT switch	PCA-6106P3V-0B1	None
ACP-2000P3-00X	Without power supply, with ATX switch	PCA-6106P3V-0B1	None
ACP-2000P3-30Z	PS-300ATX-ZB	PCA-6106P3V-0B1	UL, cUL, CE
ACP-2000P3-30D	PS-310-DC48	PCA-6106P3V-0B1	CE
ACP-2000P3-30R	RPS-300ATX-Z	PCA-6106P3V-0B1	UL, cUL, CE
ACP-2000P4-00X	Without power supply, with ATX switch	PCA-6105P4V-0B2	None
ACP-2000P4-30Z	PS-300ATX-ZB	PCA-6105P4V-0B2	UL, cUL, CE
ACP-2000P4-30R	RPS-300ATX-Z	PCA-6105P4V-0B2	UL, cUL, CE



- Redundant power supply
- Special modular design allows users to maintain the system with minimum downtime

# IPC-602

## 2U 6-slot Rackmount Chassis



### Features

- 2U-high 6-slot rackmount chassis
- Butterfly backplane design
- 300 W ATX power supply
- Two filtered 42-CFM cooling fans
- Recommended CPU cards for optimum integration

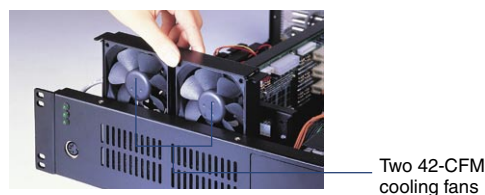


### Introduction

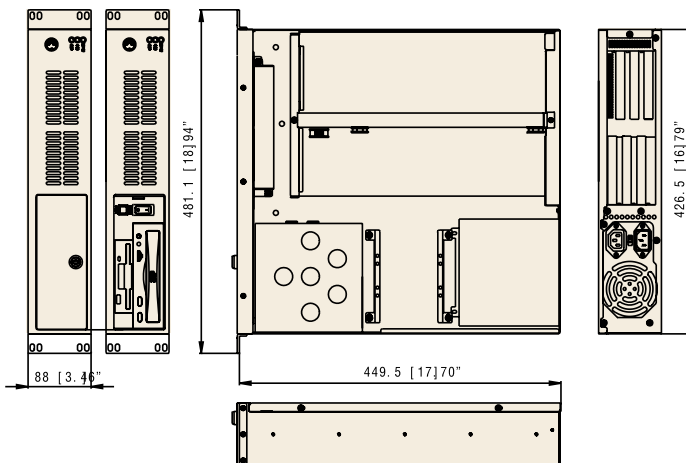
IPC-602 is a slim rugged 2U-high 19" rackmount industrial computer chassis designed for space-limited applications. With only 2U in height, IPC-602 provides the space efficiency required in applications such as CT and networking. It can accommodate a six PCI/ISA backplane with a butterfly design. In addition, IPC-602 has easy-to-replace fans and filters, giving you easier serviceability for the system.

### Specifications

Drive Bay	3.5"	Front-accessible	Internal
	5.25"	1	1
Cooling	Fan	2 (42 CFM/each)	
	Air Filter	Yes	
I/O Interface	PS/2	1 (keyboard, front-accessible)	
Miscellaneous	Indicator	LED displays for power on, +3.3 V DC status and HDD activity	
	Keyboard Connector	Reserved 9-pin and 25-pin brackets at rear panel	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	--	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	0.5 Grms	2 G
	Shock	15 G (with 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 88 x 450 mm (19" x 3.5" x 17.7")	
	Weight	10 Kg (22 lb)	



## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A, +12 V @ 10 A -5 V @ 1 A, -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours
PS-260-610E (AT)	260 W	AC 110/220 V	+5 V @ 25 A, +12 V @ 9 A -5 V @ 0.5 A, -12 V @ 2 A	+5 V @ 1 A +12 V @ 0.1 A	UL/CSA/CE/TÜV	140,000 hours @ 50 °C full load
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A, +3.3 V @ 20 A +12 V @ 13 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 1.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
PS-400ATX-Z (ATX, PFC)	400 W	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A, +3.3 V @ 20 A +12 V @ 14 A, -12 V @ 1 A -5 V @ 1 A, +5 Vsb @ 0.75 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL/TUV/CCC	100,000 hours @ 25 °C 75 %load
PS-300ATX-ZB (ATX, PFC)	300W	AC 90-264 V (Full range)	+5 V @ 30 A, +3.3 V @ 28 A +12 V @ 15 A, -12 V @ 0.8 A -5 A @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA Nemko/CB/CCC	100,000 hours @25 °C

## Storage Device Options

Part Number	Descriptions
SCD-FDD-COMBO	Storage kit with slim 24X CD-ROM and standard 3.5" black FDD
SCD COMBO	5.25" compact storage kit with slim 24X CD-ROM and a 3.5" drive bay for FDD or HDD
9684000014	3.5" FDD with black bezel

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-602P3-00P	Without power supply, with AT switch	PCA-6106P3V-0B1	None
IPC-602P3-00X	Without power supply, with ATX switch	PCA-6106P3V-0B1	None
IPC-602P3-25Z	PS-250ATX-Z	PCA-6106P3V-0B1	UL, cUL, CE
IPC-602P3-26P	PS-260-610E	PCA-6106P3V-0B1	UL, cUL, CE
IPC-602P3-30D	PS-310-DC48	PCA-6106P3V-0B1	UL, cUL, CE
IPC-602P3-30Z	PS-300ATX-ZB	PCA-6106P3V-0B1	UL, cUL, CE
IPC-602P4-00X	Without power supply, with ATX switch	PCA-6105P4V-0B2	None
IPC-602P4-25Z	PS-250ATX-Z	PCA-6105P4V-0B2	UL, cUL, CE
IPC-602P4-30Z	PS-300ATX-ZB	PCA-6105P4V-0B2	UL, cUL, CE

## Special Cable Options

Part Number	Descriptions
1701400652	HDD cable, ATA 66/100, 45 cm + 20 cm

# ACP-4000

## 4U 14-slot Rackmount Chassis with Front-accessible USB/PS2 Connector



### Features

- Front-accessible and user-friendly USB and PS/2 keyboard
- Visible alarm notification improves system availability and reduces system downtime
- Compatible with Dialogic computer telephony (CT) boards providing access to a wide range of call processing applications
- Advanced cooling system, optimally placed, to cool the system's key components
- Shock-resistant disk drive bay holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports 300 W ATX PFC PS/2 power supply and 300 W ATX PFC redundant power supply

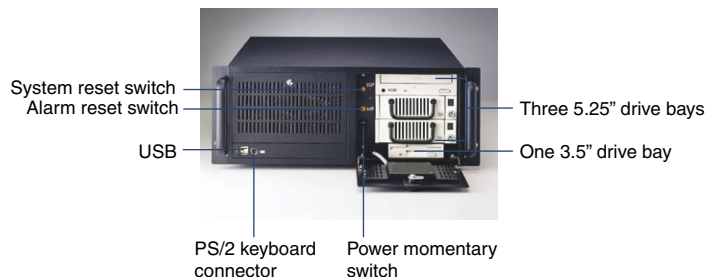


### Introduction

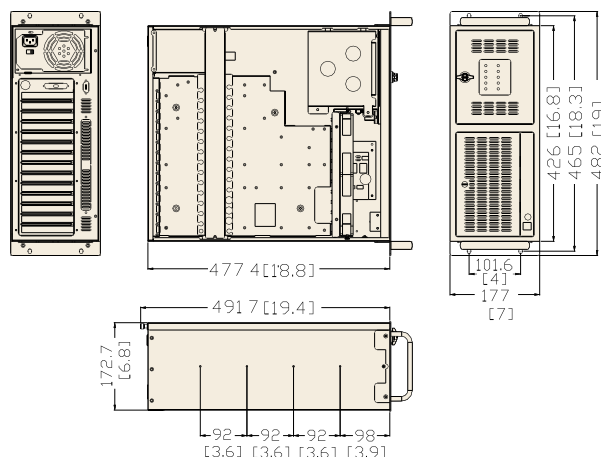
ACP-4000 is a 4U-high 14-slot rackmount industrial computer chassis designed for building mission-critical applications. The unit includes a versatile 14-slot passive backplane (optional), high-efficiency 300 W ATX with PFC (Power Factor Correction) power supply, and dual easy maintenance cooling fans. A fault detection and alarm notification system monitors the system status. A wide range of standard computing peripherals can be integrated with the chassis to meet different application requirements.

### Specifications

Drive Bay		Front-accessible	
	3.5"	1	
	5.25"	3	
Cooling	Fan	2 (84 CFM/each)	
	Air Filter	Yes	
I/O Interface	USB	2 (front-accessible)	
	PS/2	1 (keyboard x 1, front-accessible)	
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
Environment	Temperature	Operating: 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating: -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	--	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	14 Kg (30.8 lb)	



## Dimension Diagram



Unit: mm (inch)

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-400ATX-Z (ATX, PFC)	400 W	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A, +3.3 V @ 20 A +12 V @ 14 A, -12 V @ 1 A -5 V @ 1 A, +5 Vsb @ 0.75 A	+5 V @ 2.5 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL(60950 3rd) TUV/CE/CB/CCC	100,000 hours @ 25 °C (75% load)
RPS-300ATX-Z (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 25 A, +3.3 V @ 18 A +12 V @ 16 A, -12 V @ 0.5 A -5 V @ 0.5 A, +5 Vsb @ 2 A	+5 V @ 3 A +3.3 V @ 1 A +12 V @ 2 A +5 Vsb @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC Class B CB/CCC	150,000 hours
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A, +12 V @ 10 A -5 V @ 1 A, -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A,+3.3 V @ 28 A +12 V @ 15 A,-12 V @ 0.8 A -5 V @ 0.3 A,+5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000,000 hours @ 25 °C

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6113P4R-0C1	7 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-0D2	4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6114P12-0B1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6113 P7X	4 ISA, 7PCI, 2 PICMG	Single
PCA-6114-0B1	14 ISA	Single
PCA-6114P12X-A1	1 ISA, 11 PCI, 1 PICMG,1 PICMG/PCI	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
ACP-4000BP-00P	Without power supply, with AT switch	--	None
ACP-4000BP-00X	Without power supply, with ATX switch	--	None
ACP-4000BP-30Z	PS-300ATX-ZB	--	UL, cUL, CE
ACP-4000BP-40Z	PS-400ATX-Z	--	UL, cUL, CE
ACP-4000BP-30D	PS-310-DC48	--	CE
ACP-4000BP-30R	RPS-300ATX-Z	--	UL, cUL, CE

## Storage Device Options

Part Number	Descriptions
SCD-FDD-COMBO	Storage Kit with slim 24X CD-ROM and standard 3.5" black FDD
SCD COMBO	5.25" compact storage kit with slim 24X CD-ROM and a 3.5" drive bay for FDD or HDD
9684000014	3.5" FDD with black bezel



# ACP-4060

## 4U 14-slot Rackmount Chassis with 6.4" LCD Display



### Features

- 4U-high 19" Rackmount chassis with 6.4" TFT display, OSD features, slim type keyboard and touch pad
- All-in-one space saving IPC system provides low-cost
- Equipped with 250 W ATX PFC PS/2 power supply
- Easy installation front accessible disk drive bays to hold three half-height drives
- Designed to withstand environmental extremes, such as shock, vibration and high temperature
- Optional ATX motherboard version and 300 W PFC P/S



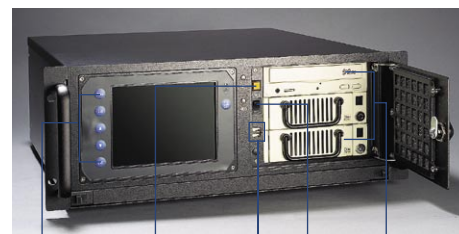
### Introduction

ACP-4060 is a 4U-high 19" rackmount industrial computer chassis with versatile optional 14-slot backplane designed for mission-critical applications. The unit includes a 6.4" front viewable LCD TFT display, built-in A/D board, OSD (On Screen Display) features and a slim type keyboard and touch pad. The high-efficiency 250 W or 300 W ATX PFC (Power Factor Correction) power supply and dual easy maintenance cooling fans provide reliable power and cooling. It is an all-in-one cost-effective platform for multiple high-priority applications.

A front viewable system status LED monitors the power, HDD and LCD activity. Advanced user-friendly OSC (On Screen Control) function keys support the LCD display. Behind the door are accessible system reset, power switch and USB which supports a wide range of peripheral devices for data transfer. ACP-4060's flexible mechanical design supports single PS/2 or redundant power supply through a power bracket replacement.



OSD power    LCD Display LED    HDD LED    Power LED    Slim type keyboard and touch pad



OSD function keys    Reset button    Two USB ports    Power switch    Three 5.25" drive bays



Two replaceable 84-CFM cooling fans    Hold-down clamp



VGA convert cable    Keyboard convert cable

## Specifications

Drive Bay	5.25"	Front-accessible	Internal
	3.5"	3	
Cooling	Fan	2 (84 CFM/each)	
	Air Filter	Yes (front door and side chassis)	
I/O Interface	USB	2 (front accessible behind the door)	
	PS/2	1 (K/B & Mouse input at rear)	
	VGA	1 (D-SUB 15-pin female input at rear)	
Miscellaneous	LCD	6.4" (diagonal) TFT, 640 x 480, 150 cd/m <sup>2</sup>	
	Keyboard	Slim type K/B US version 88 keys	
	Touchpad	Standard IMB PS/2, 2 button mouse, compatible with all PS/2 mouse drivers	
	Slide Rail	General Device C-300 series supported (not included)	
	Indicator	Power, HDD and LCD activity	
	Rear panel	D-SUB 25-pin bracket	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5 ~ 500 MHz)	1 Grms	2 G
	Shock	10 G (With 11 msec duration, 1/2 sine wave)	30 G
	Acoustic Noise	Less than 52dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	18 kg (39.6 lb)	

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

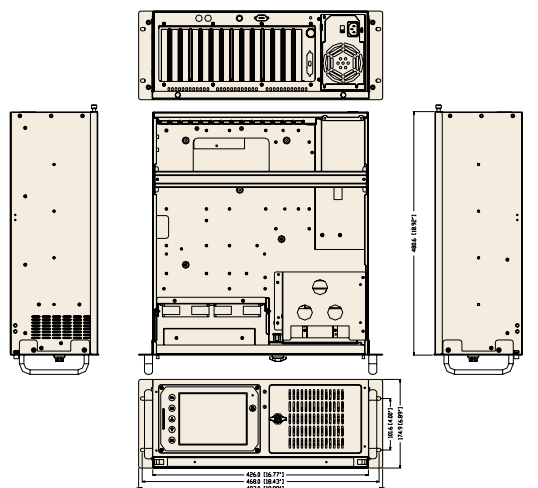
Industrial Computer Chassis 5

Industrial Computer Peripherals 6

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-250ATX-Z (ATX, PFC)	250 W	95 ~ 132 V <sub>AC</sub> 190 ~ 264 V <sub>AC</sub> (Selectable)	+5 V @ 27 A, +3.3 V @ 20 A +12 V @ 13 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 0.5 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
PS-300ATX-ZB (ATX, PFC)	300 W	100 ~ 240 V <sub>AC</sub> (Full-range)	+5 V @ 30 A, +3.3 V @ 28 A +12 V @ 15 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load

## Dimension Diagram



## Passive Backplane Options

Part Number	Slot	Segment
PCA-6114-0B1	32-bit, 14-slot : 14 ISA	1
PCA-6114P4-C	32-bit, 14-slot : 8 ISA, 4 PCI, 2 PICMG	1
PCA-6114P7-0D2	32-bit, 14-slot : 4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	1
PCA-6114P10-B	32-bit, 14-slot : 2 ISA, 10 PCI, 2 PICMG	1
PCA-6114P12-0B1	32-bit, 14-slot : 1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	1
PCA-6114P12X-A1	64-bit, 14-slot : 1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	1
PCA-6113P4R-0C1	32-bit, 13-slot : 7 ISA, 4 PCI, 2 PICMG	1
PCA-6113P7X	64-bit, 13-slot : 4 ISA, 7 PCI, 2 PICMG	1

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
ACP-4060BP-00X	Without power supply, with ATX switch	--	None
ACP-4060BP-25Z	PS-250ATX-Z	--	UL, cUL, CE
ACP-4060P4-25Z	PS-250ATX-Z	PCA-6114P4-C	UL, cUL, CE
ACP-4060BP-30Z	PS-300ATX-ZB	--	UL, cUL, CE
ACP-4060P4-30Z	PS-300ATX-ZB	PCA-6114P4-C	UL, cUL, CE

# IPC-623

## 4U 20-slot Rackmount Chassis with Front-accessible and Hot-swap Redundant Power Supply



### Features

- 4U-high 20-slot rackmount chassis, up to 4 segments
- Front-accessible and hot-swap redundant power supply
- Fault detection/alarm notification
- Three hot-swap 86-CFM cooling fans

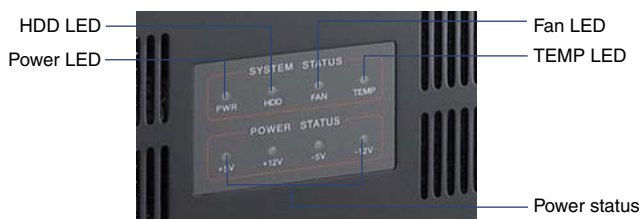
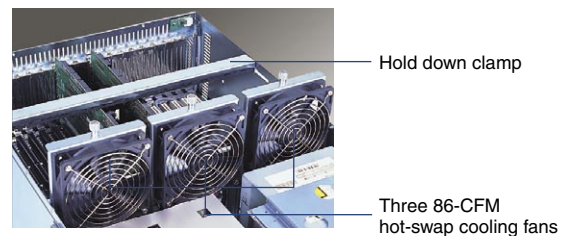
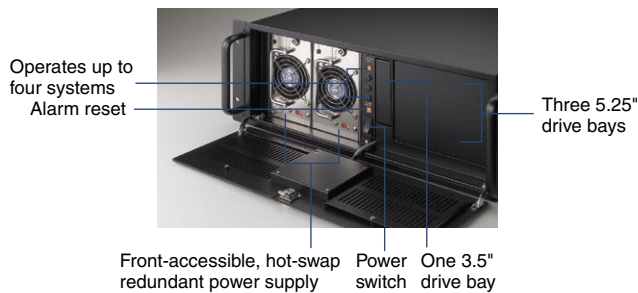


### Introduction

IPC-623 is a 4U-high 19" rackmount industrial computer chassis which can hold a 20-slot PCI/ISA backplane and 300 W/400 W redundant power supply. These features set it apart from the others. IPC-623 allows installation of multiple PC systems in a single chassis. A wide variety of multi-segment ISA or ISA/PCI backplane options are available. Some come with a PCI bridge to support more PCI slots for different applications. In addition, IPC-623 also features advanced fault resilient capability. An audible alarm is activated for power failure and fan failure or overheating which makes it an ideal solution for a number of mission-critical applications.

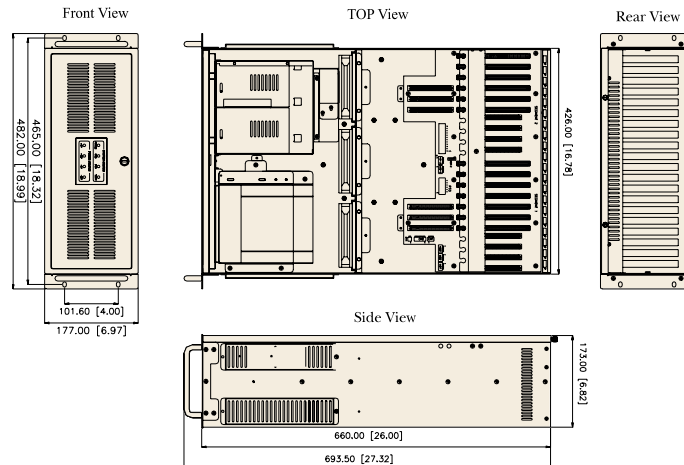
### Specifications

		Front-accessible	Internal
Drive Bay	3.5"	1	1
	5.25"	3	
Cooling	Fan	3 (hot-swap, 86 CFM/each)	
Miscellaneous	Hold-down Clamp	Rubber-buffered hold-down clamp	
Physical	Dimensions (W x H x D)	482 x 177 x 660 mm (19" x 7" x 26")	
	Weight	26 Kg (57 lb)	



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
RPS-300V	300 W AT	AC 115/230 V (selectable)	+5 V @ 30 A +12 V @ 12 A -5 V @ 0.5 A -12 V @ 0.5 A	+5 V @ 3 A +12 V @ 1 A	CE/UL/ TÜV/CSA	100,000 hours @ 25 °C
RPS-40XZ-V	400 W ATX PFC	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A +3.3 V @ 20 A +12 V @ 14 A -5 V @ 1 A -12 V @ 1 A +5 Vsb @ 0.75 A	+5 V @ 2 A +3.3 V @ 0.2 A +12 V @ 0.5 A	UL/cUL/TÜV/CE/ICCC	100,000 hours @ 25 °C (75 % load)
1757240000 (single P/S)	400W AT	AC 115/230 V (selectable)	+5 V @ 40 A +12 V @ 20 A -5 V @ 0.5 A -12 V @ 1 A	+5 V @ 3 A +12 V @ 0.5 A	CE/UL/cUL/CSA	150,000 hours @ 25 °C

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6120-0B1	20 ISA	Single
PCA-6120P4-0B1	14 ISA, 4 PCI, 2 PICMG	Single
PCA-6119P7-0B1	10 ISA, 7 PCI, 2 PICMG/PCI	Single
PCA-6119P17-0B1	16 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6120D-0B1	20 ISA	Dual
PCA-6120DP4-0B1	7 ISA, 6 PCI, 2 PICMG/PCI, 4 PICMG	Dual
PCA-6118DP7-0B1	1 ISA, 14 PCI, 3 PICMG	Dual
PCA-6120Q-0B1	20 ISA	Quad
PCA-6116QP2-0B1	1 ISA, 8 PCI, 7 PICMG	Quad
PCA-6119P16X	1 ISA, 16 PCI, 2 PICMG	Single
PCA-6120P12-0A1	7 ISA, 11 PCI, 1 PICMG, 1 PICMG/PCI	Single
PCA-6120P18-0A1	1 ISA, 17 PCI, 1 PICMG, 1PICMG/PCI	Single

## Storage Device Options

Part Number	Descriptions
SCD-FDD-COMBO	Storage Kit with slim 24X CD-ROM and standard 3.5" black FDD
SCD COMBO	5.25" compact storage kit with slim 24X CD-ROM and a 3.5" drive bay for FDD or HDD
9684000014	3.5" FDD with black bezel

## Special Cable Options

Part Number	Descriptions
1701400970	HDD cable, ATA 33, 82 cm + 15 cm
1701400972	HDD cable, ATA 66/100, 82 cm + 15 cm
1701340970	97 cm for single FDD
9682000004	Addition reset button with cable for multi-system operation

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-623BP-400	1757240000 (single P/S)	--	UL, cUL, CE
IPC-623BP-300R	RPS-300 V	--	UL, cUL, CE
IPC-623BP-400R	RPS-40X-V	--	UL, cUL, CE
IPC-623BP-40RZ	RPS-40XZ-V	--	UL, cUL, CE
IPC-623P4-400	1757240000 (single P/S)	PCA-6120P4-0B1	UL, cUL, CE
IPC-623P4-300R	RPS-300 V	PCA-6120P4-0B1	UL, cUL, CE
IPC-623P7-300R	RPS-300 V	PCA-6119P7-0B1	UL, cUL, CE

# IPC-616

## 4U 14-slot Rackmount Chassis with Front-accessible and Hot-swap Fans



### Features

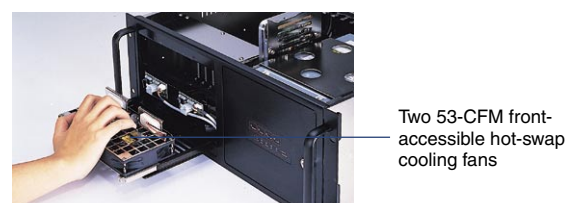
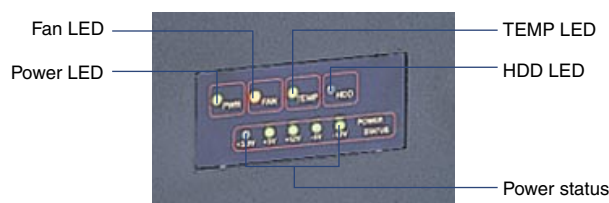
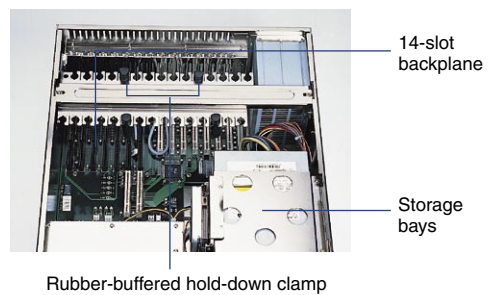
- 4U-high 14-slot rackmount chassis
- Supports up to three 5.25" and two 3.5" HDDs
- 300 W ATX or 310 W DC power supply option
- Two 53-CFM front-access hot-swap cooling fans

### Introduction

IPC-616 is a 4U-high 19" rackmount industrial computer chassis which can hold a 14-slot PCI/ISA passive backplane. Various power supply options are available. You can equip the chassis with a 300 W redundant power supply or a single PS/2 power supply up to 300 W. As more and more applications require mass capacity and higher reliability, IPC-616 comes with a removable disk drive bay accommodating up to three half-height drives, as well as one 3.5" FDD and one 3.5" internal HDD. Fault-resilient features include an audible alarm and LED indicators to reduce system downtime. All these make IPC-616 an ideal platform for PC-based servers and CT/network applications.

### Specifications

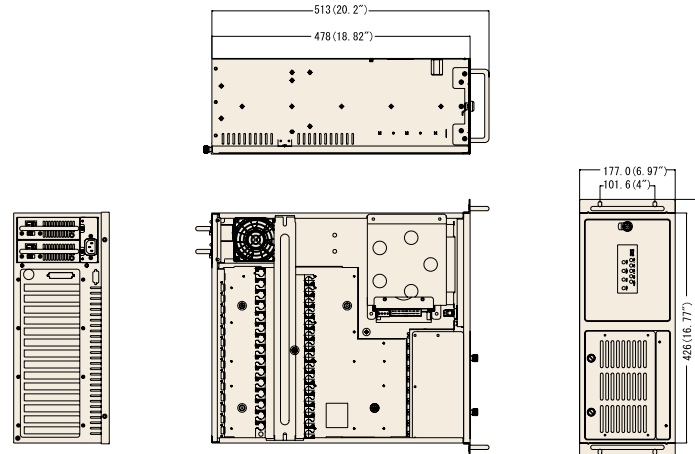
Drive Bay	3.5"	Front-accessible	1	Internal	1
	5.25"		3		
Cooling	Fan		2 (hot-swap, 53 CFM/each)		
	Air Filter		Yes		
Miscellaneous	Hold-down Clamp		Rubber-buffered hold-down clamp		
Physical	Dimensions (W x H x D)		482 x 177 x 478 mm (19" x 7" x 18.8")		
	Weight		16 Kg (35.2 lb)		





- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			MTBF
			Output	Mini-load	Safety	
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25° C
PS-400ATX-Z (ATX, PFC)	400 W	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A +3.3 V @ 20 A +12 V @ 14 A -12 V @ 1 A -5 V @ 1 A +5 Vsb @ 0.75 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL (60950 3rd) TUV/CE/CB/CCC	100,000 hours @ 25 °C (75 % load)

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-0D2	4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6113P4R-0C1	7 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P12-0B1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6113P7X	4 ISA, 7 PCI (64-bit), 2 PICMG	Single
PCA-6114-0B1	14 ISA	Single
PCA-6114P12X-A1	1ISA, 11PCI, 1PICMG, 1 PICMG/PCI	Single

## Special Cable Options

Part Number	Descriptions
1701400971	HDD cable, ATA 33, 62 cm + 35 cm
1701400973	HDD cable, ATA 66/100, 62 cm + 35 cm

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-616BP-00P	Without power supply, with AT switch	--	None
IPC-616BP-00X	Without power supply, with ATX switch	--	None
IPC-616BP-30Z	PS-300ATX-ZB	--	UL, cUL, CE
IPC-616BP-40Z	PS-400ATX-Z	--	UL, cUL, CE

## Storage Device Options

Part Number	Descriptions
SCD-ROM	Slim-type CD-ROM kit with 40-pin IDE connector
SCD-FDD-COMBO	Storage kit with slim 24X CD-ROM and standard 3.5" black FDD
9684000014	3.5" FDD with black bezel

# IPC-615

## 4U 15-slot Rackmount Chassis for 15 Full-length Cards



### Features

- 4U-high 15-slot rackmount chassis (supports full-length cards)
- Versatile power supply options
- Fault detection/alarm notification
- Two filtered 86-CFM cooling fans

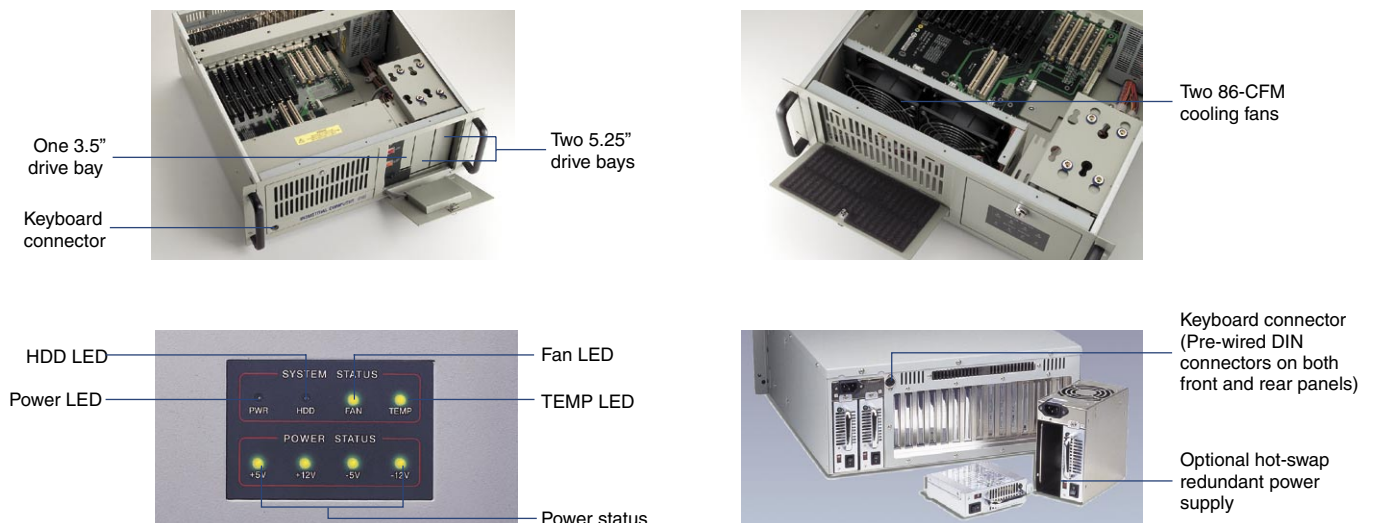


### Introduction

IPC-615 is a 15-slot, 19" rackmount Industrial computer chassis which can accept up to 15 ISA/PCI full-length cards. IPC-615 has versatile power supply options and a front-accessible disk drive bay that can hold two half-height and one 3.5" storage devices. It also features an advanced fault detection and alarm notification system. IPC-615 monitors its own hardware status for fan failure and overheating. If a malfunction is detected, an audible alarm will alert users of required maintenance. Problems can be clearly identified through IPC-615's LED status panel located at the front of the unit.

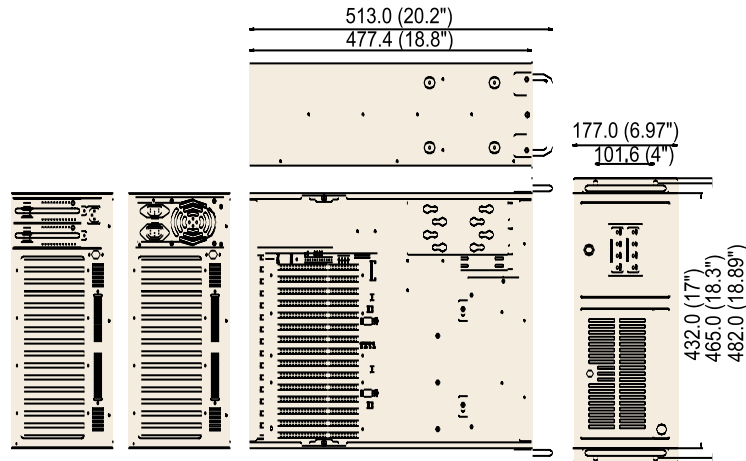
### Specifications

Drive Bay	3.5"	Front-accessible
	5.25"	1 (vertical)
Cooling	Fan	2 (86 CFM/each)
	Air Filter	Yes
Miscellaneous	Hold-down Clamp	Rubber-buffered hold-down clamp
Physical	Dimensions (W x H x D)	482 x 177 x 478 mm (19" x 7" x 18.8")
	Weight	20 Kg (44 lb)



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A, +12 V @ 10 A -5 V @ 1 A, -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours
RPS-250-SADT (AT)	230 W/200 W @ 40 °C	AC 110/220 V	+5 V @ 25 A, +12 V @ 12 A -5 V @ 1 A, -12 V @ 1 A	+5 V @ 4 A +12 V @ 1 A	UL/CE/FCC/CSA/TUV	250,000 hours @ 35 °C
PS-300ATX-ZB (ATX, PFC)	300 W	AC 90-264 V ( Full-range)	+5 V @ 30 A, +3.3 V @ 28 A +12 V @ 15 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C
PS-400ATX-Z (ATX, PFC)	400 W	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A, +3.3 V @ 20 A +12 V @ 14 A, -12 V @ 1 A -5 V @ 1 A, +5 Vsb @ 0.75 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL (60950 3rd) TUV/CE/CB/CCC	100,000 hours @ 25 °C 75 % load

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-0D2	4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6114P12-0B1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6113P7X	4 ISA, 7 PCI (64-bit), 2 PICMG	Single
PCA-6113P4R-0C1	7 ISA, 7PCI, 2 PICMG	Single
PCA-6114P12X-A1	1 ISA, 11 PCI, 1 PICMG, 1 PICMG/PCI	Single
PCA-6115-0B1	15 ISA	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-615BP-00PB	Without power supply, with AT switch	--	None
IPC-615BP-00XB	Without power supply, with ATX switch	--	None
IPC-615BP-30PB	PS-300	--	UL, CE
IPC-615BP-31DB	PS-310-DC48	--	UL
IPC-615BP-25RB	RPS-250-SADT	--	UL, CE
IPC-615BP-30ZB	PS-300ATX-ZB	--	UL, cUL, CE
IPC-615BP-40ZB	PS-400ATX-Z	--	UL, cUL, CE
IPC-615-30ZB	PS-300ATX-ZB	PCA-6115-0B1	UL, cUL, CE
IPC-615B-300	PS-300	PCA-6115-0B1	UL, CE
IPC-615B-25R	RPS-250-SADT	PCA-6115-0B1	UL, CE

# IPC-611

## 4U 14-Slot Rackmount Chassis with Front-accessible Fan



### Features

- User-friendly and front-accessible filter for system maintenance
- Visible power and HDD activity notification improves system availability
- Compatible with Dialogic computer telephony (CT) boards, and provides access to the widest range of call processing applications
- Advanced cooling system with one system fan optimally placed to cool system key components
- Shock-resistant disk drive bay holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports both 300 W ATX PFC PS/2 power supply and 300 W ATX PFC redundant power supply

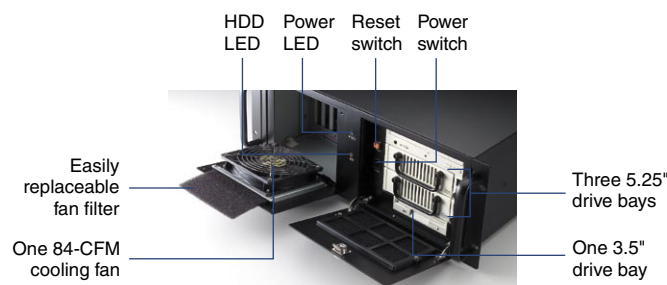


### Introduction

IPC-611 is a 4U-high 14-slot rackmount IPC chassis designed for building mission-critical applications. This rugged, all-steel chassis meets EIA RS-310C 19" rackmount standard. IPC-611 comes with four shockproof and front accessed drive bays, three 5.25" & one 3.5". The unit includes a versatile 14-slot passive-backplane and ATX M/B form factor, a high-efficiency 250 W ATX with PFC (Power Factor Correction) power supply and one easy maintenance cooling fan which provides abundant cooling. For high-density requests, IPC-611 supports 12 full-length slots for high-density applications. The flexible mechanical design provides PS/2 size single or redundant power supply through a power bracket replacement. A wide range of standard computing peripherals can be integrated with the chassis to meet application development under mission-critical environments 24 hours a day, 7 days a week.

### Specifications

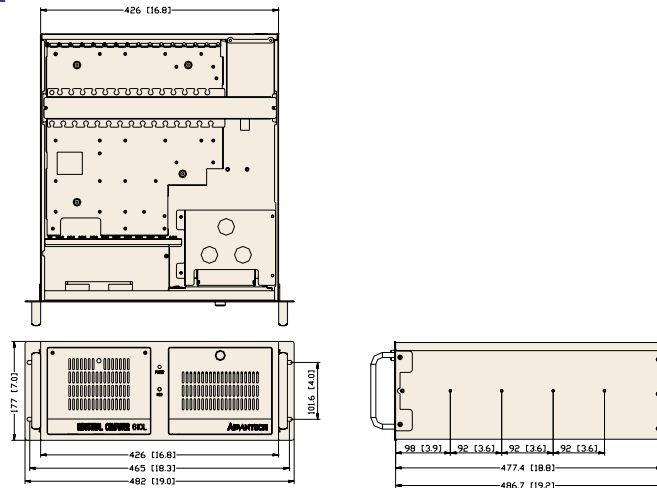
Drive Bay	3.5"	Front-accessible	1
	5.25"		3
Cooling	Fan		1 (84 CFM/each)
	Air Filter		Yes
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
	Indicator	LED displays for power on and HDD activity	
	Rear Panel	D-SUB 9-pin and 25-pin bracket	
Environment	Temperature	Operating	Non-Operating
		0 ~ 40 °C (32 ~ 104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	--	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (With 11 msec duration, 1/2 sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (-4 ~ 82 °F)	
Physical	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	10.2 Kg (22.5 lb)	



Hold-down clamp Max. 14-slot backplane

- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A, +3.3 V @ 20 A +12 V @ 13 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
RPS-300ATX-Z (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 25 A, +3.3 V @ 18 A +12 V @ 16 A, -12 V @ 0.5 A -5 V @ 0.5 A, +5 Vsb @ 2 A	+5 V @ 3 A +3.3 V @ 1 A +12 V @ 2 A +5 Vsb @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) FCC/CB/CCC/TUV	150,000 hours @ 25 °C full load
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A, +12 V @ 10 A -5 V @ 1 A, -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours @ 25 °C
PS-300ATX-ZB (ATX, PFC)	300 W	AC 90 ~ 264 V ( Full-range)	+5 V @ 30 A, +3.3 V @ 28 A +12 V @ 15 A, -12 V @ 0.8 A -5V @ 0.8 A, +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6113P4R-0C1	7 ISA, 4 PCI, 2 PICMG	Single
PCA-6113P7X	4 ISA, 7 PCI (64-bit), 2 PICMG	Single
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-0D2	4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6114P12-0B1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6114-0B1	14 ISA	Single
PCA-6114P12X-A1	1ISA, 11PCI, 1PICMG, 1PICMG/PCI	Single



Rear panel of backplane version

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-611BP-00P	Without power supply, with AT switch	--	None
IPC-611BP-00X	Without power supply, with ATX switch	--	None
IPC-611BP-25Z	PS-250ATX-Z	--	UL, cUL, CE
IPC-611P4-25Z	PS-250ATX-Z	PCA-6114P4-C	UL, cUL, CE
IPC-611BP-30Z	PS-300ATX-ZB	--	UL, cUL, CE



# IPC-610-L

## 4U 14-slot Rackmount Chassis with Front-accessible Fan

**NEW**



### Features

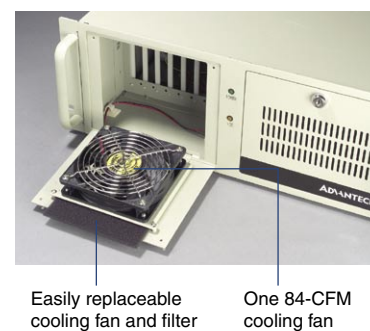
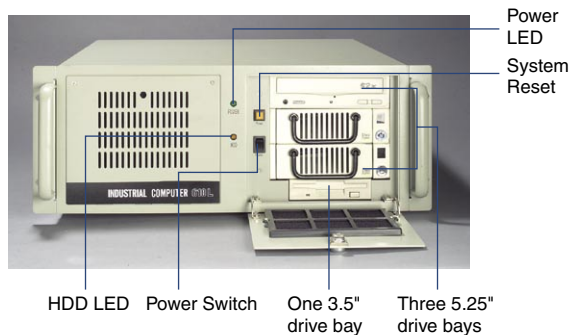
- User-friendly and front-accessible filter for system maintenance
- Front bezel visible Power and HDD LED activity notification
- Designed to withstand environmental extremes, such as shock, vibration and high temperature
- Shock-resistant disk drive bays holds three 5.25" and one 3.5" front-accessible disk drives
- Flexible mechanical design supports both PS/2 single and redundant power supply

### Introduction

IPC-610-L is a 4U-high 14-slot rackmount IPC chassis designed as a core building block for mission-critical applications. This rugged, all-steel chassis meets the EIA RS-310C 19" rackmount standard. IPC-610-L comes with shockproof and front accessible drive bays, three 5.25" & one 3.5". The unit includes a versatile 14-slot passive-backplane and a high-efficiency 250 W ATX with PFC (Power Factor Correction) power supply and one easy maintenance cooling fan which provides abundant cooling. For high density requirements, IPC-610-L supports 12 full-length slots. The flexible mechanical design provides PS/2 size single or redundant power supply through a power bracket replacement. A wide range of standard computing peripherals can be integrated with the chassis to meet application development under mission-critical environments 24 hours a day, 7 days a week.

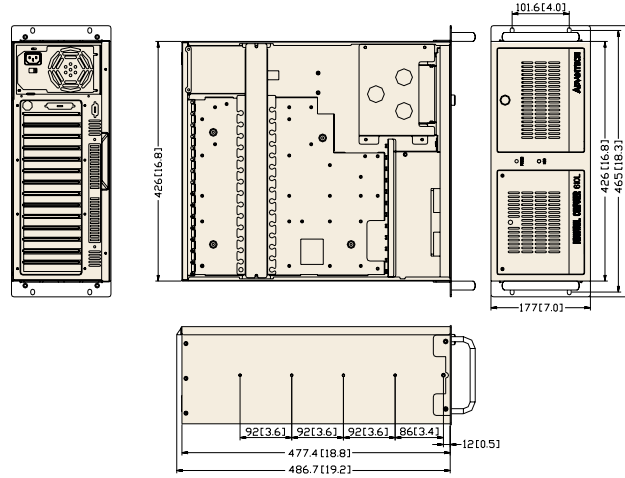
### Specifications

Drive Bay	3.5"	Front-accessible	Internal
	5.25"	3	
Cooling	Fan	1 (84 CFM/each)	
	Air Filter	Yes	
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
	Indicator	Power & HDD activity	
	Rear Panel	D-SUB 9-pin and 25-pin bracket	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (With 11 msec duration, 1/2 sine wave)	30 G
	Acoustic Noise	Less than 52dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	10.2 kg (22.5 lb)	



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			MTBF
			Output	Mini-load	Safety	
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
PS-300ATX-ZB (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.8 A +5 Vsb @ 2 A	+5V @ 0.1A +3.3V @ 0.1A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6114-0B1	14 ISA	Single
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-0D2	4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6113P4R-0C1	7 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P12-0B1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6113P7X	4 ISA, 7 PCI (64-bit), 2 PICMG	Single
PCA-6114P12X-A1	1 ISA, 11 PCI (64-bit), 1 PICMG/PCI, 1 PICMG	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-610BP-00L	Without power supply, with ATX/AT switch both	--	None
IPC-610BP-25ZL	PS-250ATX-Z	--	UL, cUL, CE
IPC-610BP-30ZL	PS-300ATX-ZB	--	UL, cUL, CE
IPC-610P4-25ZL	PS-250ATX-Z	PCA-6114P4-C	UL, cUL, CE

# IPC-610-H

## 4U 14-slot Rackmount Chassis with Front-accessible USB/PS2 Connector

**NEW**



### Features

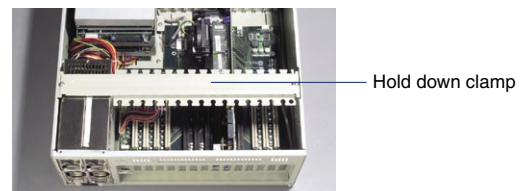
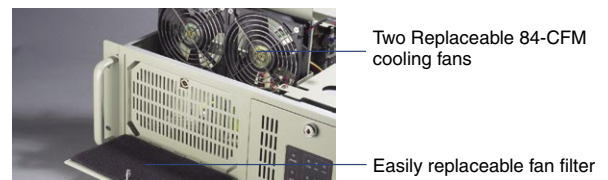
- 4U-high supports up to 14-slot ISA or ISA/PCI backplane rackmount chassis
- Equipped with 300 W ATX PFC PS/2 power supply
- Easy installation front accessible disk drive bays to hold three half-height drives, one 3.5" FDD and one internal 3.5" disk drive
- Front accessible USB & PS/2 keyboard I/O interface
- Front viewable system LED
- Designed to withstand environmental extremes, such as shock, vibration and high temperature
- Optional ATX motherboard version and 400 W PFC P/S

### Introduction

IPC-610-H is a 4U-high 14-slot rackmount industrial computer chassis designed for mission-critical applications. The unit includes a versatile 14-slot passive backplane; high-efficiency 300 W ATX with PFC (Power Factor Correction) power supply and dual easy maintenance cooling fans. A front viewable system status LED displays the power, HDD and system voltage activity. An advanced cooling system with dual high CFM fans provides sufficient flow to cool the systems key components. The front accessible USB and PS/2 keyboard I/O interface can be connected with a wide range of peripheral devices for data transfer, backup and input. Flexible mechanical design supports single PS/2 or redundant power supply through a power bracket replacement. All these outstanding features make IPC-610-H the best choice for price/performance and total cost ownership.

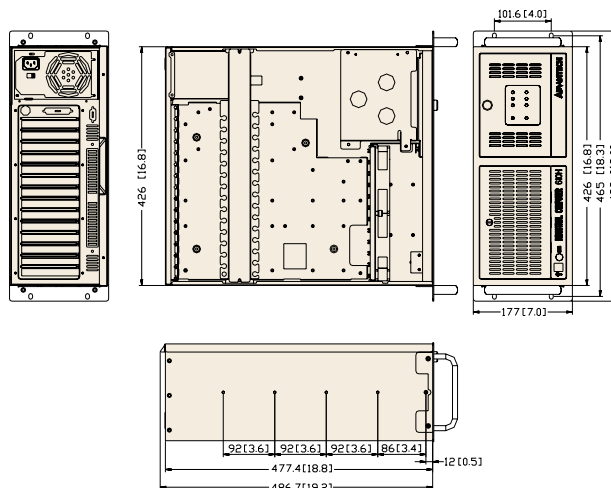
### Specifications

		Front-accessible	Internal
Drive Bay	3.5"	3	
	5.25"	1	
Cooling	Fan	1 (84 CFM/each)	
	Air Filter	Yes	
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
	Indicator	Power & HDD activity	
	Rear Panel	D-SUB 9-pin and 25-pin bracket	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85 % @ 40 °C, non-condensing	
	Vibration (5-500 Hz)	10 G (With 11 msec duration, 1/2 sine wave)	2 G
	Shock	1 Grms	30 G
	Acoustic Noise	Less than 52dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 177 x 480 mm (19" x 7" x 18.9")	
	Weight	10.2 kg (22.5 lb)	



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			
			Output	Mini-load	Safety	MTBF
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
PS-300ATX-ZB (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.8 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
RPS-300ATX-Z (ATX, PFC)	300 W	AC 90 ~ 264 V (Full-range)	+5 V @ 25 A +3.3 V @ 18 A +12 V @ 16 A -12 V @ 0.5 A -5 V @ 0.5 A +5 Vsb @ 2 A	+5 V @ 3 A +3.3 V @ 1 A +12 V @ 2 A +5 Vsb @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CB/CCC	150,000 hours @ 25 °C full road

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6114-OB1	14 ISA	Single
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-OD2	4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6113P4R-OC1	7 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P12-OB1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6113P7X	4 ISA, 7 PCI(64-bit), 2 PICMG	Single
PCA-6114P12X-A1	1 ISA, 11 PC I (64-bit), 1 PICMG/PCI, 1 PICMG	Single



Rear panel of backplane version with redundant power supply

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-610BP-00XH	Without power supply with ATX switch	--	None
IPC-610BP-25ZH	PS-250ATX-Z	--	UL, cUL, CE
IPC-610BP-30ZH	PS-300ATX-ZB	--	UL, cUL, CE
IPC-610BP-30RH	RPS-300ATX-Z	--	UL, cUL, CE

# IPC-610-F

## 4U 14-slot Rackmount Chassis with ATX Motherboard Option



### Features

- 4U-high 14-slot rackmount chassis
- Versatile power supply options
- Hot-swap 86-CFM cooling fan with filter
- Optional ATX motherboard version

### Introduction

IPC-610-F is a 19" rackmount industrial computer chassis for mission-critical applications. This unit can accommodate a 14-slot PCI/ISA bus passive backplane or a standard ATX motherboard and supports versatile power supplies. A lockable door in the front secures the unit from any unauthorized access. One hot-swap filtered cooling fan maintains positive air circulation through the whole chassis. With its hold-down clamp and shock mounted drive brackets, IPC-610-F can withstand shock, vibration and dust found in harsh environments.

### Specifications

Drive Bay	3.5"	Front-accessible	1	Internal	1
	5.25"		3		
Cooling	Fan		1 (86 CFM)		
	Air Filter		Yes		
Miscellaneous	Hold-down Clamp		Rubber-buffered hold-down clamp		
Environment	Temperature		0 ~ 50 °C (32 ~ 122 °F), operating		
Physical	Dimensions (W x H x D)		IPC-610BP: 482 x 177 x 452 mm (19" x 7" x 17.8") IPC-610MB: 482 x 177 x 502 mm (19" x 7" x 19.76")		
	Weight		17.5 Kg (38.5 lb)		



Power switch



Hold-down clamp



One 3.5" drive bay

Three 5.25" drive bays

One internal 3.5" drive bay



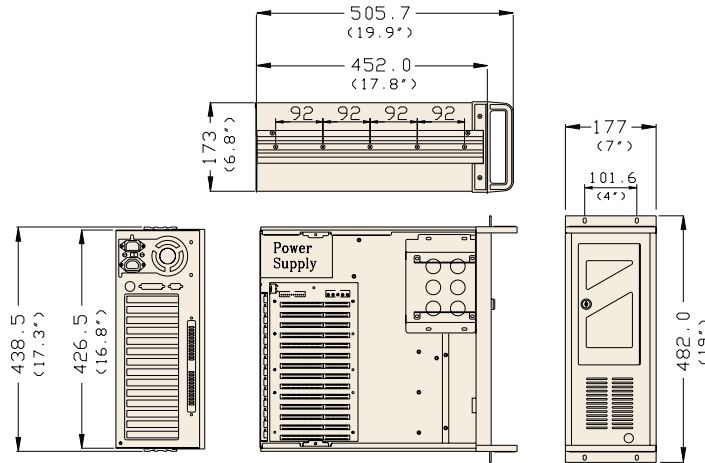
One 86-CFM hot-swap cooling fan

Easily replaceable fan filter



- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6114-0B1	14 ISA	Single
PCA-6114P4-C	8 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P7-0D2	6/7/1	Single
PCA-6114P10-B	2 ISA, 10 PCI, 2 PICMG	Single
PCA-6113P4R-0C1	7 ISA, 4 PCI, 2 PICMG	Single
PCA-6114P12-0B1	1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6113P7X	4 ISA, 7 PCI (64-bit), 2 PICMG	Single
PCA-6114P12X-A1	1 ISA, 11 PCI (64-bit), 1 PICMG/PCI, 1 PICMG	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-610BP-00PF	Without power supply, with AT switch	--	None
IPC-610BP-00XF	Without power supply, with ATX switch	--	None
IPC-610MB-00XF	Without power supply, with ATX switch	For ATX motherboard	None
IPC-610MB-25ZF	PS-250ATX-Z	For ATX motherboard	UL, cUL, CE
IPC-610MB-30ZF	PS-300ATX-ZB	For ATX motherboard	UL, cUL, CE
IPC-610BP-25ZF	PS-250ATX-Z	--	UL, cUL, CE
IPC-610BP-260F	PS-260-610E	--	UL, cUL, CE
IPC-610BP-30ZF	PS-300ATX-ZB	--	UL, cUL, CE
IPC-610BP-40ZF	PS-400ATX-Z	--	UL, cUL, CE
IPC-610BP-31DF	PS-310-DC48	--	CE
IPC-610BP-25RF	RPS-250-SDTB	--	UL, cUL, CE
IPC-610P4-25ZF	PS-250ATX-Z	PCA-6114P4-C	UL, cUL, CE
IPC-610P4-30ZF	PS-300ATX-ZB	PCA-6114P4-C	UL, cUL, CE
IPC-610P4-260F	PS-260-610E	PCA-6114P4-C	UL, cUL, CE

## Power Supply Options

Part Number	Watt	Input	Specifications				MTBF
			Output	Mini-load	Safety		
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A +12 V @ 10 A -5 V @ 1 A -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours	
RPS-250-SDTB (AT)	230 W / 200 W @ 40 °C	AC 110/220 V	+5 V @ 25 A +12 V @ 12 A -5 V @ 1 A -12 V @ 1 A	+5 V @ 4 A +12 V @ 1 A	UL/CE/CSA/TUV	250,000 hours @ 30 °C	
PS-260-610E (AT)	260 W	AC 110/220 V	+5 V @ 25 A +12 V @ 9 A -5 V @ 0.5 A -12 V @ 2 A	+5 V @ 1 A +12 V @ 0.1 A	UL/CSA/CE/TUV	140,000 hours @ 50 °C full load	
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 - 132 V AC 190 - 264 V (Selectable)	+5V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL/CSA, (UL60950 3rd)/ CEEN61000-3-2 Class D/TUV/CB	100,000 hours @ 25 °C full load	
PS-300ATX-ZB (ATX, PFC)	300 W	AC 90 - 264 V (Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.8 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.1 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CBC	100,000 hours @ 25 °C full load	
PS-400ATX-Z (ATX, PFC)	400 W	AC 90 - 264 V (Full-range)	+5 V @ 42 A +3.3 V @ 20 A +12 V @ 14 A -12 V @ 1 A -5 V @ 1 A +5 Vsb @ 0.75 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL(60950 3rd) CE (EN61000-3-2 Class D) FCC/TUV	100,000 hours @ 25 °C 75 %load	

### Black Color Chassis Options

IPC-610BP-00XFB	Without power supply	--	None
IPC-610BP-30ZFB	PS-300ATX-ZB	--	UL, cUL, CE
IPC-610MB-00XFB	Without power supply	(motherboard version)	None
IPC-610MB-30ZFB	PS-300ATX-ZB	(motherboard version)	UL, cUL, CE

Rear I/O window is separately installed to support the ATX motherboard



Motherboard version



Backplane version (black color chassis)

# ACP-5260

## 5U 20-slot Rackmount Chassis with 6 Hot-swap SCSI SCA Drive Bays and Redundant Power Supply



### Features

- Supports 20-slot BP and MB versions. The M/B version supports latest high-performance Pentium® 4 server board up to 2/4-way
- Best-in-class reliability and uptime with fully hot-swappable components, including HDD SCSI storage and front accessible redundant power supply to minimize system down time
- User friendly front-visible system alarm notification LED including system operation, system power and SCSI storage status
- Large-scale data storage enclosure, which meets the SAF-TE specification
- High-density expansion slots
- Advanced streamlined cooling design

### Introduction

ACP-5260 is a rackmount 5U industrial computer chassis with redundant power supply. It is a high performance, cost-effective, flexible, and extendible computing platform for voice processing applications, designed to meet the high reliability and regulatory compliance required of computer telephony. The integrated SCSI storage subsystem meets SAF-TE (SCSI Accessed Fault-tolerant Enclosure) specification as a high-end, fault resilient, mission critical data server. With industry standard components, built-in alarm capabilities for fault detection and alarm notification, a choice of front-accessible redundant AC power supplies with dual AC input, you can choose this platform server to best fit your performance needs for application development in mission-critical environments. This powerful application platform server provides the flexibility and expansion features you can rely on today and grow with tomorrow.

### Specifications

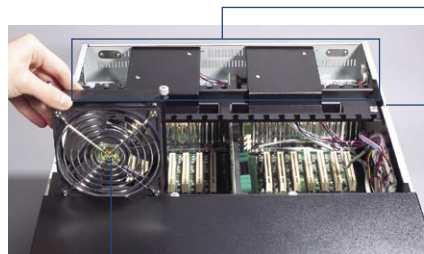
Drive Bay	3.5"	Front-accessible	Internal
	5.25"	6 (hot-swap), 1	1
	Slim CD-ROM	1	
RAID	Level	By RAID card	
	Auto Rebuilding	Yes	
Cooling	Fan	2 (46 CFM/each) for SCSI storage, 3 (114 CFM/each) on middle	
	Blower	2 (25.4 CFM/each) on rear	
	Air Filter	Yes	
Miscellaneous	Rear Panel	D-SUB 9-pin bracket x2	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	10 ~ 95 % @ 40 °C, non-condensing	10 ~ 95 % @ 40 °C, non-condensing
	Vibration (5-500 Hz)	1 Grms	2 G
	Shock	10 G (With 11 ms duration, half sine wave)	30 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 222 x 660 mm (19" x 8.75" x 26")	
	Weight	30 kg (66 lb)	



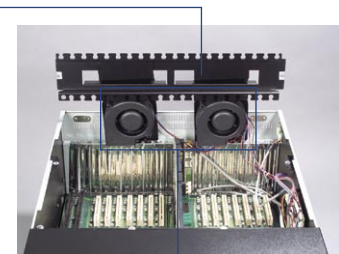
3.5" low-profile SCSI hot-swap HDD drawer



Hot-swap and redundant power supply



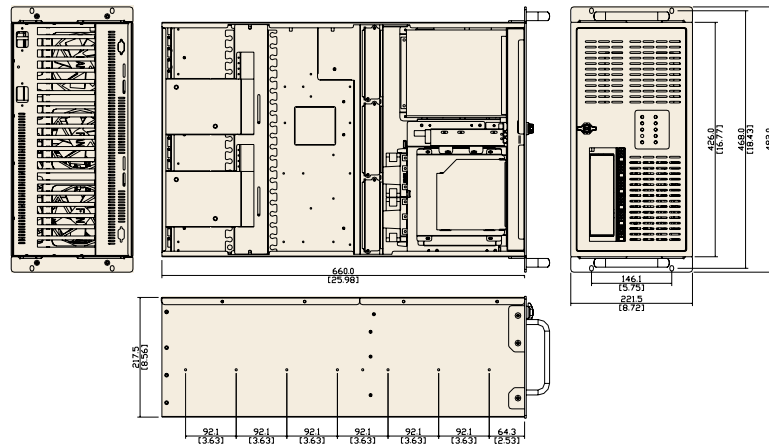
Easy fan maintenance design



Double section top cover for easy maintenance

Two adjustable enhanced blowers

## Dimension Diagram



Unit: mm (inch)

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

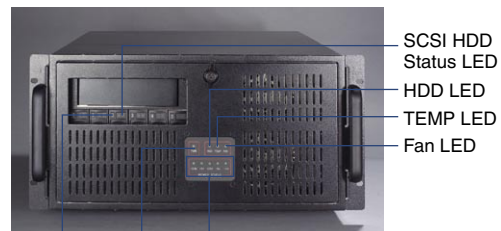
Industrial Computer Peripherals 6

## Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
1757946005 (ATX, PFC)	460 W	AC100-240V <sub>AC</sub> (Full-range)	+5 V @ 40 A, +3.3 V @ 30 A +12 V @ 27 A, -12 V @ 1 A -5 V @ 0.8 A, +5 Vsb @ 2 A	+5 V @ 5 A +3.3 V @ 1 A +12 V @ 2.5 A +5 Vsb @ 0.1 A	UL/CSA/TUV/CCC	148,000 hours @ 25 °C (Full load)
1757946006 (ATX, PFC)	460 W	AC100-240V <sub>AC</sub> (Full-range)	+5 V @ 40 A, +3.3 V @ 30 A +12 V @ 27 A, -12 V @ 1 A -5 V @ 0.8 A, +5 Vsb @ 2 A	+5 V @ 5 A +3.3 V @ 1 A +12 V @ 2.5 A +5 Vsb @ 0.1 A	UL/CSA/TUV/CCC	148,000 hours @ 25 °C (Full load)

## Storage Device Options

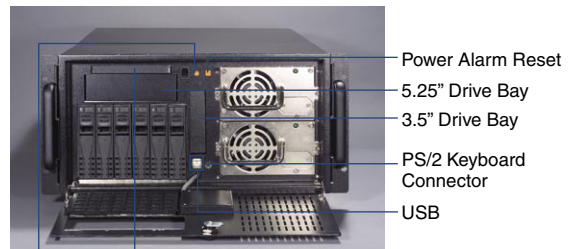
Part Number	Descriptions
SCD-ROM	Slim-type CD-ROM kit with 40-pin IDE connector
9684000014	Standard 3.5" FDD with black bezel
1759252100	Low profile P4 socket 478 CPU cooler up to 2.5 GHz



SCSI HDD Power LED  
Power LED LED Power status

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6120-0B1	20 ISA	Single
PCA-6120P4-0B1	14 ISA, 4 PCI, 2 PICMG	Single
PCA-6119P7-0B1	10 ISA, 7 PCI, 2 PICMG/PC	Single
PCA-6119P17-0B1	16 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6120P18-0A1	1 ISA, 17 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6119P16X	1 ISA, 16 PCI, 2PICMG	Single
PCA-6120P12-0A1	7 ISA, 11 PCI, 1 PICMG, 1 PICMG/PIC	Single



CPU Alarm Reset  
Slim CD-ROM Drive Bay

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
ACP-5260BP-46R	1757946005	--	UL, cUL, CE
ACP-5260MB-46R	1757946006	(motherboard version)	None

# IPC-622

## 6U 20-slot Rackmount Chassis with Hot-swap Redundant Power Supply



### Features

- 6U-high 20-slot rackmount chassis
- Hot-swap redundant power supply
- Fault detection/alarm notification
- Four filter 49-CFM cooling fans
- Up to four systems in a chassis

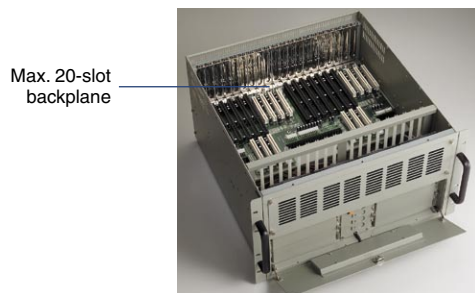


### Introduction

IPC-622 is a high-end 20 slot, 19" rackmount industrial computer chassis with a 300 watt hot-swappable redundant power supply. Up to six disk drives can be installed into IPC-622. This unit supports up to four front accessible, and half-height storage devices. IPC-622 can support up to four PC systems in a single chassis suitable for space-critical applications. Moreover, IPC-622 features an advanced fault detection and alarm notification feature. IPC-622 monitors its own hardware status including power failure, fan failure and temperature. When malfunctions occur, an audible alarm will be activated to alert users of maintenance needs. Problems can be clearly identified through IPC-622's front panel LED.

### Specifications

Drive Bay	3.5" 5.25"	Front-accessible 4	Internal 2
Cooling	Fan Air Filter	4 (49 CFM/each) Yes	
Miscellaneous	Hold-down Clamp	Rubber-buffered hold-down clamp	
Physical	Dimensions (W x H x D) Weight	483 x 266 x 462 mm (19" x 10.5" x 18") 30 Kg (66 lb)	



Max. 20-slot backplane



Four 49-CFM cooling fans  
Manually replaceable fan filter



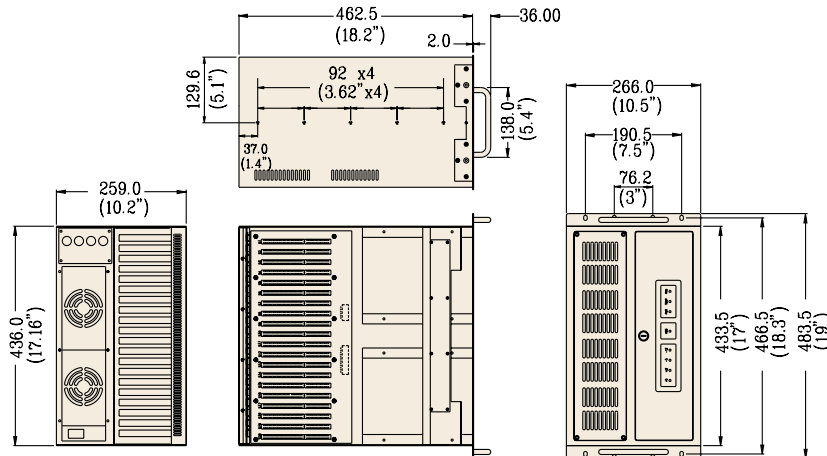
Power LED  
Power status  
HDD LED  
FAN LED  
TEMP LED  
FAN LED



Rear side hole for heat-releasing  
Hot-swap redundant power supply

- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			
			Output	Mini-load	Safety	MTBF
RPS-300	300 W AT	AC 115/230 V (selectable)	+5 V @ 30 A, +12 V @ 12 A -5 V @ 0.5 A, -12 V @ 0.5 A	+5 V @ 3 A +12 V @ 1 A	UL/CE/TÜV/CSA	100,000 hours @ 25 °C
RPS-300DC48	300 W AT	DC -38 ~ -58 V	+5 V @ 25 A, +12 V @ 10 A -5 V @ 1 A, -12 V @ 4 A	+5 V @ 2 A	--	100,000 hours @ 25 °C
RPS-400H-Z	400 W ATX. PFC	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A, +3.3 V @ 20 A +12 V @ 14 A, -5 V @ 1 A -12 V @ 1 A, +5 Vsb @ 0.75 A	+5 V @ 2 A +3.3 V @ 0.2 A +12 V @ 0.5 A	UL/cUL/TÜV/CE	100,000 hours @ 25 °C (75% load)
1757240013 (single P/S)	400 W ATX. PFC	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A, +3.3 V @ 20 A +12 V @ 14 A, -12 V @ 1 A -5 V @ 1 A, +5 Vsb @ 0.75 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL/TUV/CCC	100,000 hours @ 25 °C (75% load)

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6120-0B1	20 ISA	Single
PCA-6120P4-0B1	14 ISA, 4 PCI, 2 PICMG	Single
PCA-6119P7-0B1	10 ISA, 7 PCI, 2 PICMG/PCI	Single
PCA-6120P12-0A1	7 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6119P17-0B1	16 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6120D-0B1	20 ISA	Dual
PCA-6120DP4-0B1	14 ISA, 4 PCI, 2 PICMG	Dual
PCA-6118DP7-0B1	1 ISA, 14 PCI, 3 PICMG	Dual
PCA-6120Q-0B1	20 ISA	Quad
PCA-6116QP2-0B1	1 ISA, 8 PCI, 7 PICMG	Quad
PCA-6119P16X	1 ISA, 16 PCI, 2 PICMG	Single
PCA-6120P18-0A1	1 ISA, 17 PCI, 1 PICMG, 1 PICMG/PCI	Single

## Special Cable Options

Part Number	Descriptions
1701400971	HDD cable, ATA 33, 62 cm + 35 cm
1701400973	HDD cable, ATA 66/100, 62 cm + 35 cm

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-622BP-40Z	1757240013 (single P/S)	--	UL, cUL, CE
IPC-622-300R-01	RPS-300	--	CE
IPC-622-300R-01	RPS-300DC48	--	CE
IPC-622BP-400R	RPS-400H	--	UL, cUL, CE
IPC-622BP-400RZ	RPS-400H-Z	--	UL, cUL, CE
IPC-622-300R	RPS-300	PCA-6120-0B1	CE
IPC-622P4-300R	RPS-300	PCA-6120P4-0B1	CE

### Black Color Chassis Options

IPC-622BP-00RB	Without power supply	--	None
IPC-622BP-300RB	RPS-300	--	CE
IPC-622BP-400RZB	RPS-400H-Z	--	UL, cUL, CE

## Storage Device Options

Part Number	Descriptions
SCD-COM	Slim-type CD-ROM kit with 40-pin IDE connector
SCD-FDD-COMBO	Storage kit with slim 24X CD-ROM and standard 3.5" black FDD
9684000014	3.5" FDD with black bezel



# ACP-7000

## 7U 20-slot Rackmount Chassis with 6 Hot-swap SCSI SCA Drive Bays



### Features

- RAID storage supports SAF-TE features
- Supports both 20/14-slot BP and MB versions. The MB version supports high-performance up to 2-way or 4-way Server board (such as Intel® STL2, SBT2) by OEM/ODM request
- Highly reliable and dependable with fully hot-swappable components, including disk drives, power supply and fans
- Ultra 160 SCSI storage supports SAF-TE (SCSI Accessed Fault-tolerant Enclosures)
- Large-scale data storage and computer performance makes this the best choice for corporate and factory management server
- Server platform for web-enabled call center or contact center, voice portal, unified messaging and voice messaging

### Introduction

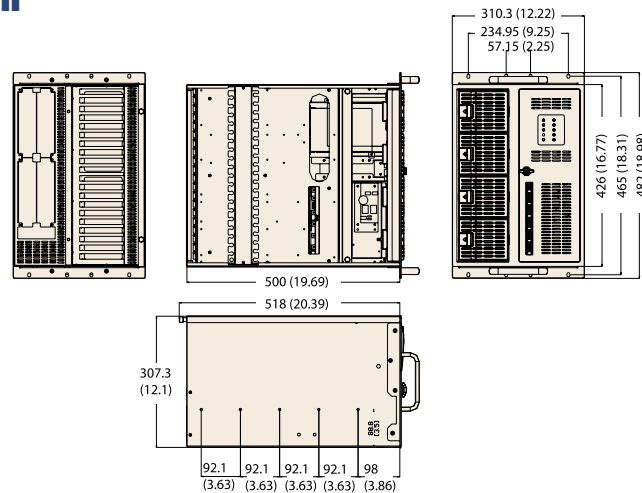
ACP-7000 is a high performance, high-capacity computing platform which meets a variety of needs including web-enabled call center, email and Web server. This powerful departmental server includes a full disk array of high availability features for minimizing system downtime, especially in mission-critical CT applications and factory management. A wide range of standard computing peripherals can be integrated with the chassis to meet different applications under mission-critical environments 24 hours a day, 7 days a week. The product features rack space optimization, flexibility, expandability and extraordinary performance.

### Specifications

Drive Bay	Slim CD-ROM	Front-accessible	
	5.25"	1	
	3.5"	6 (hot-swap), 1	
Cooling	Fan	4 (hot-swap, 57 CFM/each)	
	Air Filter	Yes	
I/O Interface	USB	1 (front-accessible)	
	PS/2	1 (keyboard x1, front-accessible)	
Miscellaneous	Slide Rail	General Device C-300 series supported (not included)	
Environment	Temperature	0 ~ 40 °C (32 ~ 104 °F)	Operating Non-Operating
	Humidity	--	-20 ~ 60 °C (-4 ~ 140 °F)
	Vibration (5-500 Hz)	1 Grms	10 ~ 95 % @ 40 °C, non-condensing
	Shock	10 G (with 11 ms duration, half sine wave)	2 G
	Acoustic Noise	Less than 52 dB sound pressure at 5 ~ 28 °C (41 ~ 82 °F)	30 G
	Altitude	0 to 3048 m (0 ~ 10,000 ft)	
Physical	Dimensions (W x H x D)	482 x 307 x 500 mm (19" x 12.1" x 19.7")	
	Weight	35 Kg (77 lb)	



## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			
			Output	Mini-load	Safety	MTBF
1757946010 1757946007	460 W ATX PFC	AC 90 ~ 264 V (Full-range)	+5 V @ 42 A +3.3 V @ 20 A +12 V @ 14 A -5 V @ 1 A -12 V @ 1 A +5 Vsb @ 0.75 A	+5 V @ 2 A +3.3 V @ 0.2 A +12 V @ 0.5 A	UL/cUL/TÜV/CE/ICCC	148,000 hours @ 25 °C
1757957001	570 W ATX PFC	AC 90 ~ 264 V (Full-range)	+5 V @ 50 A +3.3 V @ 40 A +12 V @ 34 A -12 V @ 1 A -5 V @ 1 A +5 Vsb @ 1.2 A	+5 V @ 6 A +3.3 V @ 2 A +12 V @ 3 A -12 V @ 0.1 A -5 V @ 0.1 A +5 Vsb @ 0.1 A	UL/cUL/TÜV/ICCC	180,000 hours @ 25 °C
1757981001	810 W ATX PFC	AC 90 ~ 264 V (Full-range)	+5 V @ 75 A +3.3 V @ 60 A +12 V @ 51 A -12 V @ 1.5 A -5 V @ 1.5 A +5 Vsb @ 1.6 A	+5 V @ 9 A +3.3 V @ 3 A +12 V @ 4.5 A -12 V @ 0.15 A -5 V @ 0.15 A +5 Vsb @ 0.15 A	UL/cUL/TÜV/ICCC	259,000 hours @ 25 °C

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6120-0B1	20 ISA	Single
PCA-6120P4-0B1	14 ISA, 4 PCI, 2 PICMG	Single
PCA-6119P7-0B1	10 ISA, 7 PCI, 2 PICMG/PCI	Single
PCA-6120P12-0A1	7 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6119P17-0B1	16 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6119P16X	1 ISA, 16 PCI, 2 PICMG	Single
PCA-6120P18-0A1	1 ISA, 17 PCI, 1 PICMG, 1 PICMG/PCI	Single

Supports six SCSI SCA hot-swap HDDs up to 72 GB

Alarm reset switch  
USB



PS/2 keyboard connector

System reset switch  
Slim CD-ROM  
Two 5.25" drive bays  
One 3.5" drive bays

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
ACP-7000BP-46R	1757946010 (1+1 redundant)	--	UL, cUL, CE
ACP-7000BP-57N	1757957001 (2+1 redundant)	--	UL, cUL, CE
ACP-7000BP-81N	1757981001 (3+1 redundant)	--	UL, cUL, CE
ACP-7000MB-46R	1757946007 (1+1 redundant)	(motherboard version)	None



Hot-swap redundant power supplies

# IPC-6908

## 8-slot Desktop/Wallmount Chassis with Front Alarm Notification and PS/2 Power Supply



### Features

- 8-slot desktop chassis
- Versatile power supply options
- Fault detection/alarm notification
- Hot-swap dual cooling fans

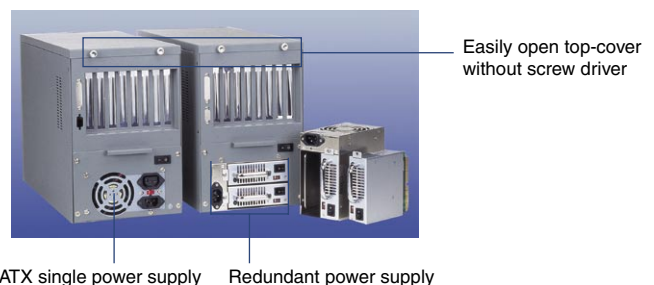
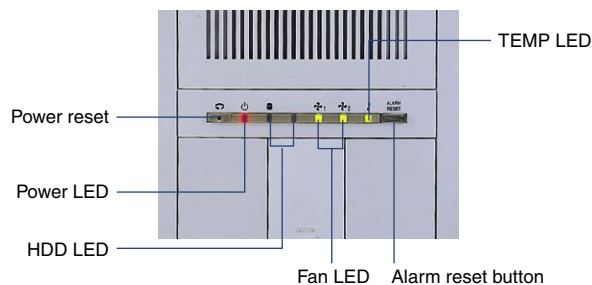


### Introduction

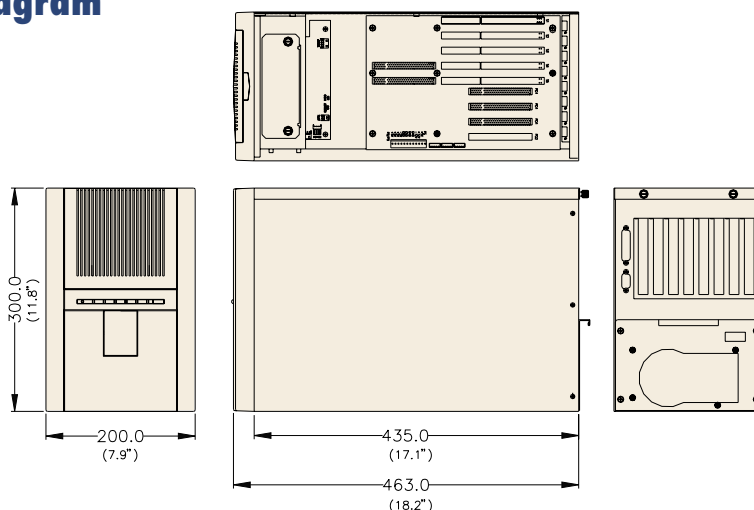
IPC-6908 is a high-end desktop/wallmount fault-resilient industrial computer chassis for mission-critical applications and harsh industrial computing environments. IPC-6908 accepts up to 8 full-length cards and a 260-watt power supply. The front-accessible disk drive bay can hold two half-height and one 3.5" hard disk drives, and another 3.5" HDD can be mounted inside the case.

### Specifications

Drive Bay	3.5"	Front-accessible	Internal
	5.25"	1	1
Cooling	Fan	2 (hot-swap, 49 CFM/each)	
	Air Filter	Yes	
Physical	Dimensions (W x H x D)	200 x 300 x 463 mm (7.9" x 11.8" x 18.2")	
	Weight	12 Kg (26.4 lb)	



## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications				MTBF
			Output	Mini-load	Safety		
PS-260-610E (AT)	260 W	AC 110/220 V	+5 V @ 25 A, +12 V @ 9 A -5 V @ 0.5 A, -12 V @ 2 A	+5 V @ 1 A +12 V @ 0.1 A	UL/CSA/CE/TÜV	140,000 hours @ 50 °C full load	
RPS-250-SADT (AT)	230 W / 200 W @ 40 °C	AC 110/220 V	+5 V @ 25 A, +12 V @ 12 A -5 V @ 1 A, -12 V @ 1 A	+5 V @ 4 A +12 V @ 1 A	UL/cUL/CE/FCC/CSA	250,000 hours @ 30 °C full load	
PS-310-DC48 (AT)	310 W	DC -38 ~ -58 V	+5 V @ 25 A, +12 V @ 10 A -5 V @ 1 A, -12 V @ 5 A	+5 V @ 2 A	UL/CSA/CE	100,000 hours	
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5V @ 27 A, +3.3 V @ 20 A +12 V @ 13 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load	
PS-400ATX-Z (ATX, PFC)	400 W	AC 90 ~ 264 V (Full-range)	+5V @ 27 A, +3.3 V @ 20 A +12 V @ 13 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5 V @ 2 A +12 V @ 0.5 A +3.3 V @ 0.2 A	UL/cUL/CE/TUV/CCC	100,000 hours @ 25 °C (75 %load)	
PS-300ATX-ZB (ATX PFC)	300 W	AC90-264 V ( Full-range)	+5 V @ 30 A, +3.3 V @ 28 A +12 V @ 15 A, -12 V @ 0.8 A -5 V @ 0.3 A, +5 Vsb @ 2 A	+5V@0.1 A +3.3V@0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C	

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6108P4-C	3 ISA, 3 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6108P6-0B3	1 ISA, 5 PCI, 1 PICMG/PCI, 1 PICM	Single
PCA-6108E-0C1	8 ISA	Single
PCA-6108P6X-0A1	6 PCI, 2 PICMG	Single
PCA-6108P8-0A1	8 PCI	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-6908BP-26PB	PS-260-610E	--	UL, cUL, CE
IPC-6908BP-25RB	RPS-250-SADT	--	UL, cUL, CE
IPC-6908BP-31DB	PS-310-DC48	--	UL, cUL, CE
IPC-6908BP-25ZB	PS-250ATX-Z	--	UL, cUL, CE
IPC-6908BP-30ZB	PS-300ATX-ZB	--	UL, cUL, CE
IPC-6908BP-40ZB	PS-400ATX-Z	--	UL, cUL, CE

## Special Cable Options

Part Number	Descriptions
1701400971	HDD cable, ATA 33, 62 cm + 35 cm
1701400973	HDD cable, ATA 66/100, 62 cm + 35 cm

# IPC-6608

## 8-slot Desktop/Wallmount Chassis with PS/2 Power Supply



### Features

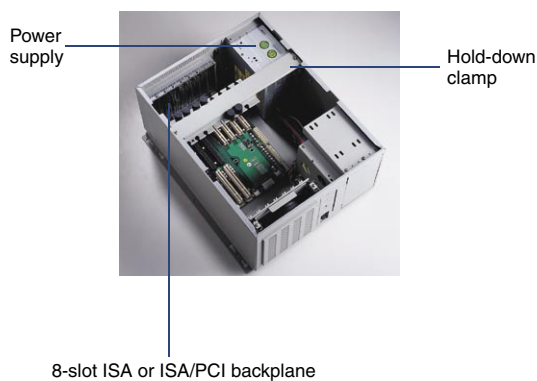
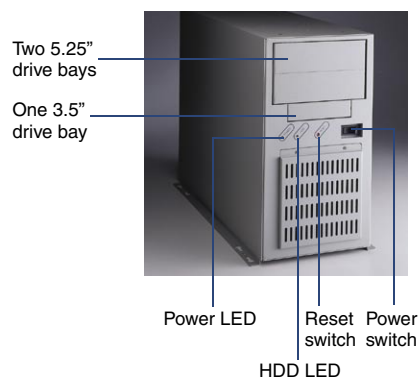
- Equipped with an 8-slot ISA or ISA/PCI backplane to hold eight full-length cards
- Two front accessed 5.25" half-height disk drives and one 3.5" FDD
- High pressure cooling fan supports abundant cooling and streamlined ventilation
- Vibration protected driver mounting for industrial applications

### Introduction

Specifically designed for factory floors and other harsh industrial environments, IPC-6608 Wall-mount industrial computer chassis is ideal for system integrators or users who require a compact, rugged PC/AT compatible system. IPC-6608 features an 8-slot passive backplane and a wide selection of power supplies to meet different application needs. The chassis is only 6.8" wide and can easily be mounted bi-directionally on panels or walls with the supplied bracket.

### Specifications

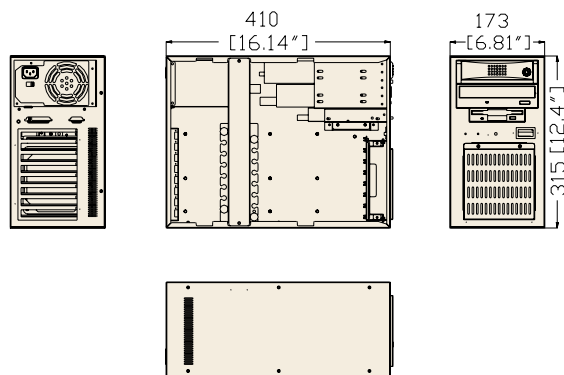
Drive Bay	3.5"	Front-accessible
	5.25"	1
Cooling	Fan	1 (hot-swap, 84 CFM)
	Air Filter	Yes
Miscellaneous	Control	Front panel power switch and reset switch
	Indicator	LEDs for power On/Off and HDD activity
Environment	Temperature	0 ~ 40 °C (32 ~ 104 °F), operating
	Humidity	10 ~ 95 % @ 40 °C, non-condensing
Physical	Dimensions (W x H x D)	173 x 315 x 410 mm (6.8" x 12.4" x 16.1")
	Weight	5.6 Kg (12.3 lb)





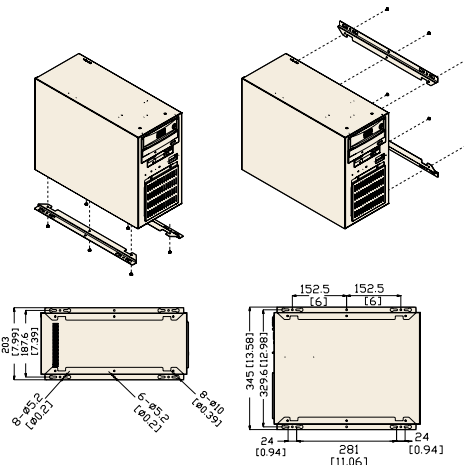
- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

### Dimension Diagram



Unit: mm (inch)

### Installation



Unit: mm (inch)

### Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
PS-260-610E (AT)	260 W	AC 110/220 V	+5 V @ 25 A +12 V @ 9 A -5 V @ 0.5 A -12 V @ 2 A	+5 V @ 1 A +12 V @ 0.1 A	UL/cUL/CSA/CE/FCC/TUV	140,000 hours @ 50 °C full load
RPS-250-SDTB (AT)	230 W/200 W @ 40 °C	AC 110/220 V	+5 V @ 25 A +12 V @ 12 A -5 V @ 1 A -12 V @ 1 A	+5 V @ 4 A +12 V @ 1 A	UL/cUL/CE/FCC/CSA/TUV	250,000 hours @ 30 °C full load
PS-300ATX-ZB (ATX, PFC)	300 W	AC90-264 V (Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C

### Passive Backplane Options

Part Number	Slot	Segment
PCA-6108E-0C1	8 ISA	Single
PCA-6108P4-C	3 ISA, 3 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6108P6-0B3	1 ISA, 5 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6108P6X-0A1	6 PCI, 2PICMG	Single
PCA-6108P8-0A1	8 PCI	Single

### Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-6608BP-00	Without power supply, with AT/ATX switch both	--	None
IPC-6608BP-25Z	PS-250ATX-Z	--	UL, cUL, CE
IPC-6608BP-26P	PS-260-610E	--	UL, cUL
IPC-6608BP-30Z	PS-300ATX-ZB	--	UL, cUL, CE
IPC-6608BP-25R	RPS-250-SDTB	--	None

# IPC-6806

## 6-slot Desktop/Wallmount Chassis with Open Frame PFC Power Supply



IPC-6806S ▲

IPC-6806 ▲

IPC-6806WH ▲



### Features

- Supports 6-slot ISA or ISA/PCI backplane to hold six cards
- Equipped with one 49-CFM cooling fan with air filter
- IPC-6806WH is especially equipped with a front-mounted 5.25" drive bay reserved for a CD-ROM drive
- Equipped with open frame power supply

### Introduction

Specially designed for factory floor and other harsh industrial environments, IPC-6806 wallmount IPC chassis is ideal for system integrators or users who require a compact, rugged PC/AT compatible system. IPC-6806 features a 6-slot passive backplane and a power supply. The chassis is less than 8" wide and can be easily mounted on panels or walls with the supplied brackets.

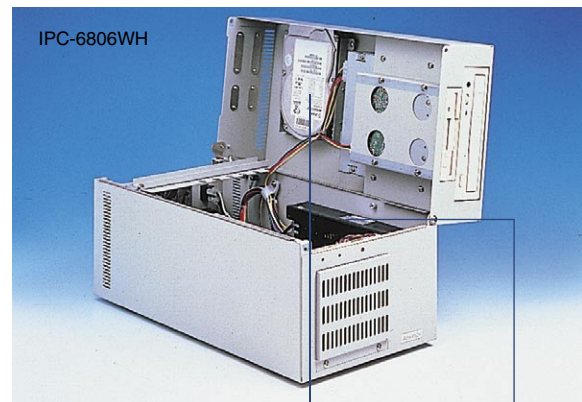
### Common Specifications for IPC-6806 Series

Cooling	Fan	1 (49 CFM)
	Air Filter	Yes
Miscellaneous	Control	Power On/Off switch and CPU reset button
	Indicator	LEDs for power On/Off and HDD activity
Environment	Temperature	0 ~ 50 °C (32 ~ 122 °F), operating
	Humidity	10 ~ 95 % @ 40 °C, non-condensing



One 49-CFM cooling fan with air filter

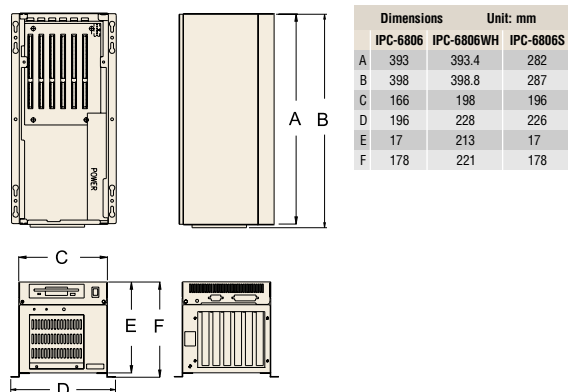
3.5" FDD



One internal 3.5" drive bay

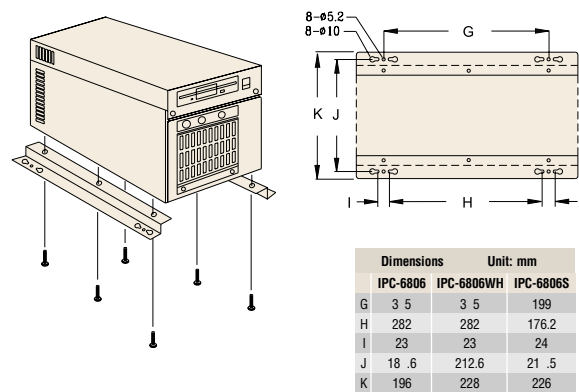
Easy access to internal components

## Dimension Diagram



Unit: mm (inch)

## Installation



Unit: mm (inch)

## Selection Guide

Part Number	IPC-6806SBP-15Z	IPC-6806BP-20ZB	IPC-6806WHB-20Z
<b>Disk Drive Bay</b>	3.5" FDD x 1, 3.5" HDD x 1	3.5" FDD x 1, 3.5" HDD x 1	5.25" CD-ROM x 1, 3.5" FDD x 1, 3.5" HDD x 1
<b>Power Supply</b>	150 W PFC	200 W PFC	200 W PFC
<b>Backplane</b>	PCA-6106-B, PCA-6105P5-0B1 (for half-sized card only)	PCA-6106-B, PCA-6106P3-0C1, PCA-6105P5-0B1	PCA-6106-B, PCA-6106P3-0C1, PCA-6105P5-A2, PCA-6105P5-0B1
<b>Dimensions (W x H x D)</b>	196 x 170 x 282 mm (7.7" x 6.7" x 11.1")	166 x 170 x 393 mm (6.5" x 6.7" x 15.4")	198 x 213 x 393 mm (7.8" x 8.4" x 15.4")
<b>Weight</b>	4.5 Kg (9.9 lb)	5.6 Kg (12.3 lb)	6 Kg (13.2 lb)

## Power Supply Options

Part Number	Watt	Input	Specifications			Safety	MTBF
			Output	Mini-load			
OP-20PZ (IPC-6806, IPC-6806WH)	200 W	AC 90 ~ 264 V (Full-range)	+5 V @ 16 A, +12 V @ 9 A -5 V @ 0.2 A, -12 V @ 0.7 A +3.3 V @ 14 A, +5 Vsb @ 1.5 A	+5 V @ 2 A, +12 V @ 1 A -5 V @ 0.1 A, -12 V @ 0.1 A +3.3 V @ 1 A, +5 Vsb @ 0.1 A		UL/TUV/CB/CCC	50,000 hours
OP-15PZ (IPC-6806S only)	150 W	AC 90 ~ 264 V (Full-range)	+5 V @ 14 A, +12 V @ 6 A -5 V @ 0.5 A, -12 V @ 0.8 A +3.3 V @ 10 A, +5 Vsb @ 1.5 A	+5 V @ 2 A, +12 V @ 1 A -5 V @ 0.1 A, -12 V @ 0.1 A +3.3 V @ 1 A, +5 Vsb @ 0.1 A		UL/TUV/CB/CCC	50,000 hours

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6106-B	6 ISA	Single
PCA-6106P3-0C1	2 ISA, 2 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6106P4-0A1	4 PCI, 2 PICMG	Single
PCA-6105P5-0B1	5 PCI	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-6806BP-20ZB	OP-20PZ	--	UL, cUL, CE
IPC-6806-20ZB	OP-20PZ	PCA-6106-B	UL, cUL, CE
IPC-6806P3-20ZB	OP-20PZ	PCA-6106P3-0C1	UL, cUL, CE
IPC-6806WHB-20Z	OP-20PZ	--	UL, cUL, CE
IPC-6806WH-20Z	OP-20PZ	PCA-6106-B	UL, cUL, CE
IPC-6806WHP-20Z	OP-20PZ	PCA-6106P3-0C1	UL, cUL, CE
IPC-6806SBP-15Z	OP-15PZ	--	UL, cUL, CE
IPC-6806S-15Z	OP-15PZ	PCA-6106-B	UL, cUL, CE

# IPC-6606

## 6-slot Desktop/Wallmount Chassis with PS/2 Power Supply



### Features

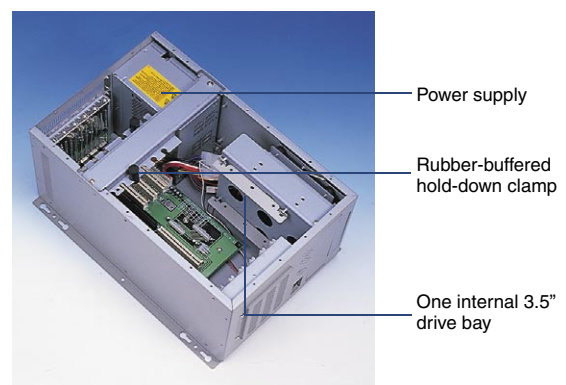
- Cost-effective wallmount/desktop IPC chassis
- Equipped with a 6-slot ISA/PCI backplane to hold six full-length cards
- One front access half-height disk drive and one 3.5" FDD, plus one internal 3.5" HDD
- One 49-CFM cooling fan with air filter
- With 300/250 W ATX power supply options

### Introduction

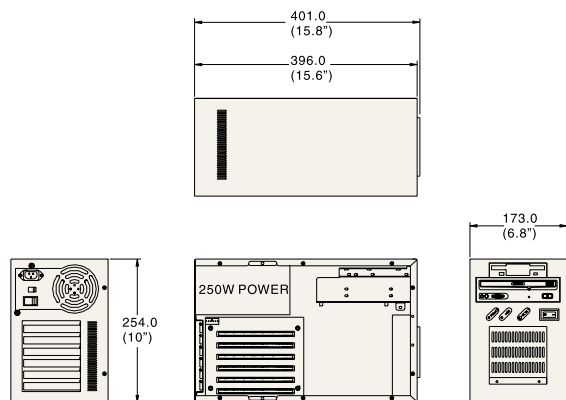
Specially designed for factory floor and other harsh industrial environments, IPC-6606 wallmount IPC chassis is ideal for system integrators or users who require a compact, rugged PC/AT compatible system. IPC-6606 features a 6-slot passive backplane and a 200 watt power supply. The chassis is only 6.8" wide and can easily be mounted bi-directionally on panels or walls with the supplied brackets.

### Specifications

Drive Bay	3.5"	Front-accessible	1
	5.25"		1
Cooling	Fan		1 (49 CFM)
	Air Filter		Yes
Miscellaneous	Control	Front panel reset switch, rear panel power supply	
	Indicator	LEDs for power On/Off and HDD activity	
Environment	Temperature	0 ~ 50 °C (32 ~ 122 °F), operating	
	Humidity	10 ~ 95 % @ 40 °C, non-condensing	
Physical	Dimensions (W x H x D)	173 x 254 x 396 mm (6.8" x 10" x 15.6")	
	Weight	6.2 Kg (13.7 lb)	

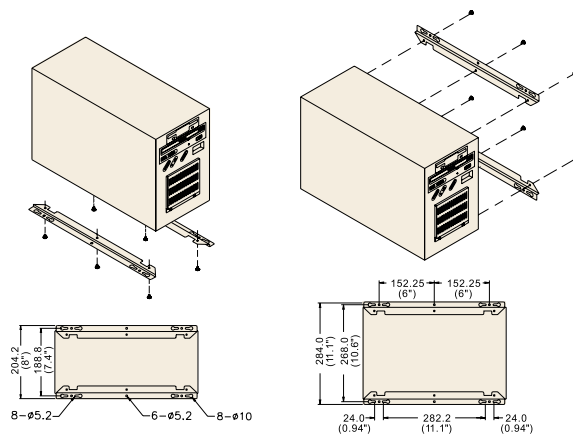


### Dimension Diagram



Unit: mm (inch)

### Installation



### Power Supply Options

Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
PS-250ATX-Z (ATX, PFC)	250 W	AC 95 ~ 132 V AC 190 ~ 264 V (Selectable)	+5 V @ 27 A +3.3 V @ 20 A +12 V @ 13 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.5 A +12 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C full load
PS-300ATX-ZB (ATX PFC)	300 W	AC90-264 V (Full-range)	+5 V @ 30 A +3.3 V @ 28 A +12 V @ 15 A -12 V @ 0.8 A -5 V @ 0.3 A +5 Vsb @ 2 A	+5 V @ 0.1 A +3.3 V @ 0.3 A	UL/cUL (60950 3rd) CE (EN61000-3-2 Class D) TUV/FCC/CSA/Nemko CB/CCC	100,000 hours @ 25 °C

### Passive Backplane Options

Part Number	Slot	Segment
PCA-6106-B	6 ISA	Single
PCA-6106P3-0C1	2 ISA, 2 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6106P4-0A1	4 PCI, 2 PICMG	Single
PCA-6105P5-0B1	5 PCI	Single

### Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-6606BP-00P	Without power supply, with AT switch	--	None
IPC-6606BP-00X	Without power supply, with ATX switch	--	None
IPC-6606BP-25Z	PS-250ATX-Z (System with AT switch)	--	UL, cUL, CE
IPC-6606-25Z	PS-250ATX-Z (System with AT switch)	PCA-6106-B	UL, cUL, CE
IPC-6606P3-25Z	PS-250ATX-Z (System with AT switch)	PCA-6106P3-0C1	UL, cUL, CE
IPC-6606-30Z	PS-300ATX-ZB	PCA-6106-B	UL, cUL, CE
IPC-6606BP-30Z	PS-300ATX-ZB	--	UL, cUL, CE
IPC-6606P3-30Z	PS-300ATX-ZB	PCA-6106P3-0C1	UL, cUL, CE



# IPC-644

## 4-slot Compact Desktop/Wallmount Chassis with Open Frame AC, DC Power Supply



### Features

- Ultra-compact wallmount/desktop IPC chassis
- Equipped with a 4-slot ISA or PCI backplane to hold 4 half-size cards
- One front-accessible 3.5" FDD and one internal 3.5" HDD
- Two (9-pin and 25-pin) I/O ports
- Power on switch with connector
- One 49-CFM filtered cooling fan and one 14 CFM cooling fan
- Replaceable and easy to clean fan filters
- 60 W AC power supply options

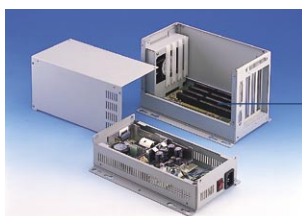


### Introduction

IPC-644 is an ultra-compact 4-slot mini node chassis, an ideal embedded application workhorse. IPC-644 can be equipped with a 4-ISA or 1 ISA/2 PCI/1 NLX backplane to hold 4 half-size cards. It is also equipped with both DC and AC power inputs. IPC-644 is ideal for environments such as boats and other modes of transport, yet is equally suitable for indoor operation. Designed to offer optimal performance, it comes with two LED indicators on the front panel for DC power and HDD activity, to facilitate easy diagnostics and maintenance. It is also equipped with two switches for reset and power. Disk drives include one 3.5" FDD and one internal HDD. Other features include versatile PCI/ISA-bus backplanes, two 9/25-pin I/O reserved ports, built-in 60 W power supply and two 49/19.4 CFM cooling fans to dissipate heat fast.

### Specifications

Drive Bay	3.5"	Front-accessible	Internal
	3.5"	1	1
Cooling	Fan	1 (49 CFM), 1 (14 CFM)	
Miscellaneous	Control	System reset, AC power On/Off switch	
	Indicator	LEDs for power On/Off and HDD activity	
Environment	Temperature	0 ~ 50 °C (32 ~ 122 °F), operating	
	Humidity	10 ~ 95 % @ 40 °C, non-condensing	
Physical	Dimensions (W x H x D)	135 x 208 x 305 mm (5.3" x 8.2" x 12")	
	Weight	3.8 Kg (8.4 lb)	



4-slot ISA or NLX backplane to hold 4 half-size cards



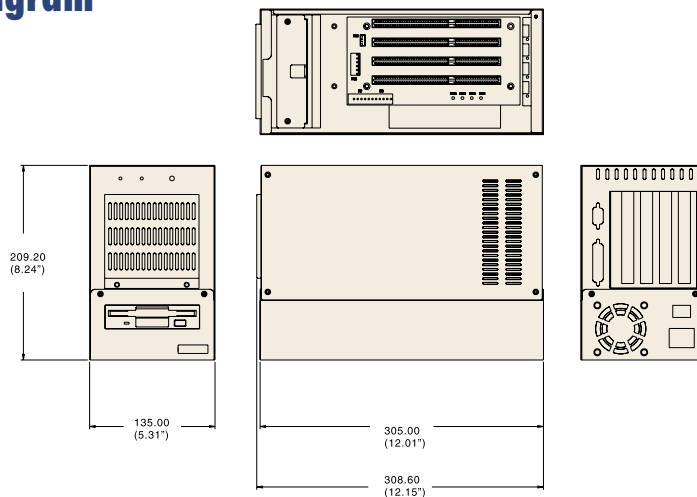
One 14-CFM cooling fan  
One 3.5" drive bay



A 49-CFM cooling fan for easy-replacement and maintenance

- Industrial Motherboard 1
- Industrial VGA Card 2
- Industrial Motherboard Chassis 3
- Full-sized CPU Cards 4
- Industrial Computer Chassis 5
- Industrial Computer Peripherals 6

## Dimension Diagram



Unit: mm (inch)

## Power Supply Options

Part Number	Watt	Input	Specifications			
			Output	Mini-load	Safety	MTBF
OP-60P	60 W	AC 90 ~ 264 V	+5 V @ 5 A +12 V @ 2 A -12 V @ 0.5 A	--	CE/CB/CSA/TÜV	100,000 hours@ 25 °C full load
OP-60P-D24	60 W	DC 18 ~ 32 V	+5 V @ 6 A +12 V @ 2.5 A -12 V @ 0.3 A	+5 V @ 0 A +12 V @ 0 A -12 V @ 0 A	--	--
OP-60P-D48	60 W	DC 36 ~ 72 V	+5 V @ 6 A +12 V @ 2.5 A -12 V @ 0.3 A	+5 V @ 0 A +12 V @ 0 A -12 V @ 0 A	--	--

## Passive Backplane Options

Part Number	Slot	Segment
PCA-6104-1C1	4 PCI	Single
PCA-6104P4-0B1	4 PCI	Single

## Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
IPC-644BP-60	OP-60P	--	UL, cUL, CE
IPC-644BP-D24	OP-60P-D24	--	CE
IPC-644BP-D48	OP-60P-D48	--	CE
IPC-644-60	OP-60P	PCA-6104	UL, cUL, CE
IPC-644P4-60	OP-60P	PCA-6104P4-0B1	UL, cUL, CE

# MBPC-641

## 4-slot MicroBox Desktop/Wallmount Chassis with Open Frame AC, DC Power Supply



### Features

- Ultra-compact wallmount/desktop IPC chassis
- Equipped with a 4-slot ISA or PCI backplane to hold 4 half-size cards
- Two (9-pin and 25-pin) I/O ports
- Power on switch with connector
- One 49-CFM cooling fan with air filter
- Replaceable and easy to clean fan filters
- 60 W AC power supply options

### Introduction

MBPC-641 MicroBox IPC chassis is an ultra-compact 4-slot IPC chassis for embedded control systems or other limited-space applications. Its small size and rugged design make it excellent for vending machines, mobile computer systems, and unattended controllers. MBPC-641 provides the necessary framework for building a complete PC control system. It supports most half-sized CPU cards and is equipped with a mounting panel for special connectors or cable extensions. In addition, MBPC-641 reserves one RS-232 port and one parallel port. Also included is a 60-watt power supply with power on/off switch.

### Specifications

Cooling	Fan	1 (49 CFM)
	Air Filter	Yes
Miscellaneous	Slot	4 ISA slots, half-size
Environment	Temperature	0 ~ 50 °C (32 ~ 122 °F), operating
	Humidity	10 ~ 95 % @ 40 °C, non-condensing
Physical	Dimensions (W x H x D)	114 x 197 x 245 mm (4.5" x 7.8" x 9.6")
	Weight	2.8 Kg (6 lb)

### Power Supply Options

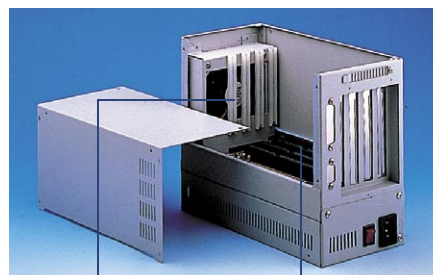
Part Number	Watt	Input	Output	Specifications		
				Mini-load	Safety	MTBF
OP-60P	60 W	AC 90 V ~ 264 V	+5 V @ 5 A, +12 V @ 2.3 A -12 V @ 0.5 A	+5 V @ 0 A, +12 V @ 0 A -12 V @ 0 A	UL/CSA/TÜV	100,000 hours @ 25 °C full load
OP-60P-D24	60 W	DC 18 V ~ 32 V	+5 V @ 6 A, +12 V @ 2.5 A -12 V @ 0.3 A	+5 V @ 0 A, +12 V @ 0 A -12 V @ 0 A	--	--
OP-60P-D48	60 W	DC 36 V ~ 72 V	+5 V @ 6 A, +12 V @ 2.5 A -12 V @ 0.3 A	+5 V @ 0 A, +12 V @ 0 A -12 V @ 0 A	--	--

### Passive Backplane Options

Part Number	Slot	Segment
969K610430	4 PCI	Single
969K610450	4 PCI	Single

### Ordering Information

Part Number	With Power Supply	With Backplane	Regulation
MBPC-641BP-60	OP-60P	--	UL, cUL, CE
MBPC-641BP-D24	OP-60P-D24	--	CE
MBPC-641BP-D48	OP-60P-D48	--	CE
MBPC-641-60	OP-60P	969K610430	UL, cUL, CE
MBPC-641P4-60	OP-60P	969K610450	UL, cUL, CE

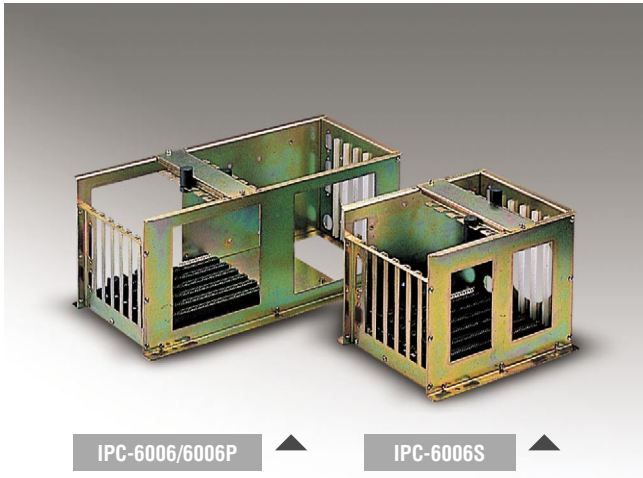


One 49-CFM cooling fan with air filter

Equipped with a 4-slot ISA or PCI backplane to hold 4 half-sized cards

# IPC-6006

## 6-slot Card Cage



IPC-6006/6006P

IPC-6006S

### Features

- Adjustable hold-down clamp protects cards from vibration
- Plug-in termination resistors for high-speed signals
- Terminal-block connectors supply power from board
- Equipped with a 6-slot passive backplane (optional)
- Mounting holes provided for installing one PS/2 power supply (optional), one HDD (optional) and one cooling fan

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6

### Introduction

IPC-6006 series consists of open-frame card cages with a 6-slot ISA or ISA/PCI backplane. They are especially suitable for OEMs who wish to customize the appearance of their PC-based systems. IPC-6006 can hold 6 full-length cards, and the IPC-6006S can hold 6 half size cards. They have pre-punched mounting holes for a PS/2 power supply and one 3.5" HDD, allowing for easy system integration.

### Specifications

Model Name	IPC-6006	IPC-6006P	IPC-6006S
Dimensions (W x H x D)	158 x 186 x 368 mm (6.2" x 7.3" x 14.5")	158 x 186 x 368 mm (6.2" x 7.3" x 14.5")	158 x 186 x 215 mm (6.2" x 7.3" x 8.4")
Weight	2.2 Kg (4.8 lb)	2.2 Kg (4.8 lb)	1.6 Kg (3.5 lb)

### Passive Backplane Options

Part Number	Slot	Segment
PCA-6106-B	6 ISA	Single
PCA-6106P3-0C1	2 ISA, 2 PCI, 1 PICMG/PCI, 1 PICMG	Single
PCA-6106P4-0A1	4 PCI, 2 PICMG	Single
PCA-6105P5-0B1	5 PCI	Single

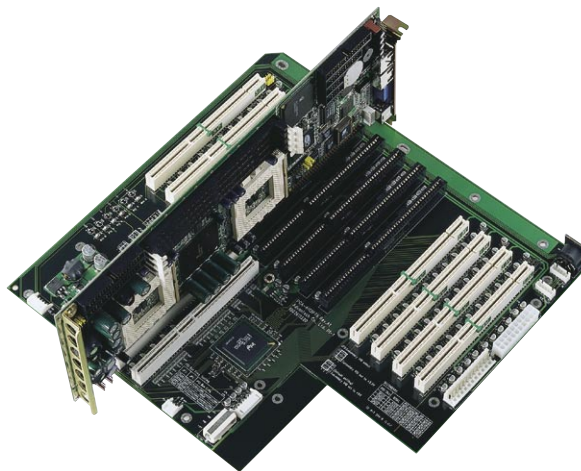
### Ordering Information

Part Number	Descriptions
IPC-6006	6 ISA slots, full-size
IPC-6006P	2 ISA/3 PCI/1 CPU slots, full-size
IPC-6006S	6 ISA slots, half-size

# Passive Backplanes

## Features

- Follows PICMG PCI/ISA specification
- Versatile options for PCI and ISA slot combination
- Supports both AT and ATX power supplies



## Selection Guide

V : support/ - : no support/△ : reserved

	Slots per segment					Segment	Power Input		ACP-1000	ACP-1120	ACP-2000	IPC-602	IPC-644	MBPC-641
	ISA	PCI	PICMG	PICMG/PCI	ISA/PCI		AT	ATX	1U	1U	2U	2U	Wallmount	Wallmount
									2-slot	2-slot	6/5-slot	6-slot	4-slot	4-slot
PCA-6103P2V-0A1**	-	2	1	-	-	1	-	V	V	-	-	-	-	
PCA-6103P2VX-B2**	-	2	1	-	-	1	-	V	V	-	-	-	-	
PCA-6105P4V-0B2**	-	4	1	-	-	1	-	V	-	V	V	-	-	
PCA-6106P3V-0B1**	1	3	2	-	-	1	V	V	-	-	V	V	-	
PCA-6106P3VX-A1***	1	3	2	-	-	1	-	V	-	-	V	V	-	
PCA-6106P4V-0A1***	1	4	1	-	-	1	-	V	-	-	V	V	-	
PCA-6106P5V-0A1****	-	5	1	-	-	1	-	V	-	-	V	V	-	
PCA-6104-0C1	4	-	-	-	-	1	V	V	-	-	-	-	-	
PCA-6104-1C1	4	-	-	-	-	1	V	V	-	-	-	V	-	
PCA-6104-3C1	4	-	-	-	-	1	V	V	-	-	-	-	V	
PCA-6104P4-0B1*	-	4	-	-	-	1	V	V	-	-	-	V	V	
PCA-6105P5-0B1*	-	5	-	-	-	1	V	V	-	-	-	-	-	
PCA-6106-B	6	-	-	-	-	1	V	V	-	-	-	-	-	
PCA-6106P3-0C1	2	2	1	1	-	1	V	V	-	-	-	-	-	
PCA-6106P4-0A1	-	4	2	-	-	1	V	V	-	-	-	-	-	
PCA-6108-0B1	8	-	-	-	-	1	V	△	-	-	-	-	-	
PCA-6108E-0C1	8	-	-	-	-	1	V	△	-	-	-	-	-	
PCA-6108P8-0A1*	-	8	-	-	-	1	V	V	-	-	-	-	-	
PCA-6108P4-C	3	3	1	1	-	1	V	V	-	-	-	-	-	
PCA-6108P6-0B3	1	5	1	1	-	1	V	V	-	-	-	-	-	
PCA-6108P6X-0A1	-	6	2	-	-	1	-	V	-	-	-	-	-	
PCA-6113DP4-0A1	2	7	3	1	-	2	V	V	-	-	-	-	-	
PCA-6113P4R-0C1	7	4	2	-	-	1	V	V	-	-	-	-	-	
PCA-6113P7X	4	7	2	-	-	1	V	V	-	-	-	-	-	
PCA-6114-0B1	14	-	-	-	-	1	V	V	-	-	-	-	-	
PCA-6114P4-C	8	4	2	-	-	1	V	V	-	-	-	-	-	
PCA-6114P7-0D2	4	6	3	-	1	1	V	V	-	-	-	-	-	
PCA-6114P10-B	2	10	2	-	-	1	V	V	-	-	-	-	-	
PCA-6114P12-0B1	1	11	1	1	-	1	V	V	-	-	-	-	-	
PCA-6114P12X-A1	1	11	1	1	-	1	V	V	-	-	-	-	-	
PCA-6115-0B1	15	-	-	-	-	1	V	△	-	-	-	-	-	
PCA-6116QP2-0B1	-	2	2	-	-	4	V	△	-	-	-	-	-	
PCA-6118DP7-0B1	-	7	2	-	-	2	V	△	-	-	-	-	-	
PCA-6119P7-0B1	10	7	2	-	-	1	V	△	-	-	-	-	-	
PCA-6119P16X	1	16	2	-	-	1	V	△	-	-	-	-	-	
PCA-6119P17-0B1	-	16	1	1	-	1	V	△	-	-	-	-	-	
PCA-6120-0B1	20	-	-	-	-	1	V	△	-	-	-	-	-	
PCA-6120D-0B1	10	-	-	-	-	2	V	△	-	-	-	-	-	
PCA-6120Q-0B1	5	-	-	-	-	4	V	△	-	-	-	-	-	
PCA-6120DP4-0B1	3	3	2	1	-	2	V	△	-	-	-	-	-	
PCA-6120P4-0B1	14	4	2	-	-	1	V	△	-	-	-	-	-	
PCA-6120P12-0A1	7	11	1	1	-	1	V	△	-	-	-	-	-	
PCA-6120P18-0A1	1	17	1	1	-	1	V	△	-	-	-	-	-	

### Remark

1. \*: only compatible with half-size CPU card
2. \*\*: only sold with Advantech's 1U/2U chassis
3. \*\*\*: only available for ODM project and only sold with Advantech's 1U/2U chassis
4. IPC-622, IPC-623, ACP-7000 provides for reset buttons and four KB connectors. For more information regarding chassis, please refer to chapter 8





# Passive Backplanes

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## 1U Butterfly Backplanes

Compatible with IPC Chassis: ACP-1000/ ACP-1120 (Only Sold with Advantech's 1U Chassis)

### PCA-6103P2V-0A1

- Segment: 1
- Slots: 2 PCI, 1 CPU
- PCI bus: 32-bit/33 MHz
- Size: 40 x 400 mm (1.57" x 15.75")
- Ordering Information: 969K610301



### PCA-6103P2VX-B2

- Segment: 1
- Slots: 2 PCI, 1 CPU
- PCI bus: 64-bit/66 MHz
- Size: 40 x 400 mm (1.57" x 15.75")
- Ordering Information: 9692610334



## 2U Butterfly Backplanes

Compatible with IPC Chassis: ACP-2000 / IPC-602 (Only Sold with Advantech's 2U Chassis)

### PCA-6105P4V-0B2

- Segment: 1
- Slots: 4 PCI, 1 PICMG
- PCI bus: 32-bit/33 MHz
- Size: 80 x 260 mm (3.15" x 10.23")
- Ordering Information: 969K610510

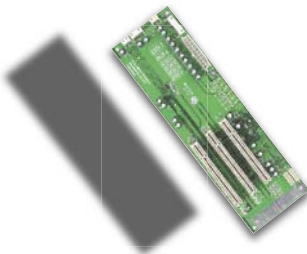


### PCA-6106P3V-0B1

- Segment: 1
- Slots: 1 ISA, 3 PCI, 2 PICMG
- PCI bus: 32-bit/33 MHz
- Size: 80 x 260 mm (3.15" x 10.23")
- Ordering Information: 969K610620

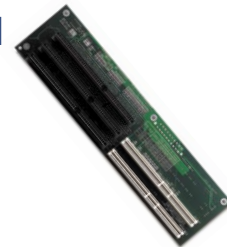
### PCA-6106P4V-0A1

- Segment: 1
- Slots: 1 ISA, 4 PCI, 1 PICMG
- PCI bus: 32-bit/33 MHz
- Size: 80 x 260 mm (3.15" x 10.23")
- Ordering Information: 96926106B0



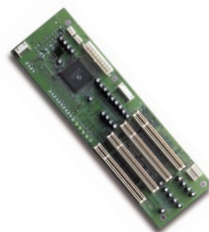
### PCA-6106P3VX-A1

- Segment: 1
- Slots: 1 ISA, 3 PCI, 2 PICMG
- PCI bus: 64-bit/66 MHz
- Size: 80 x 303 mm (3.15" x 11.93")
- Ordering Information: 9692610691



### PCA-6106P5V-0A1

- Segment: 1
- Slots: 5 PCI, 1 PICMG
- PCI bus: 32-bit/33 MHz
- Size: 80 x 260 mm (3.15" x 10.23")
- PCI bridge: Pericom PI7C8150MA
- Ordering Information: 969K610600



## 6-slot ISA/PCI Backplanes

Compatible with IPC Chassis: IPC-6806/IPC-6606/IPC-6006

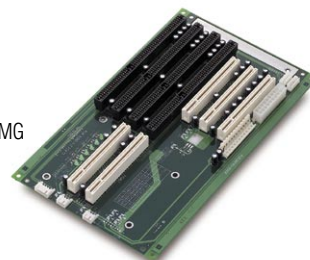
### PCA-6106-B

- Segments: 1
- Slots: 6 ISA
- Size: 142 x 175 mm (5.59" x 6.89")
- Ordering Information: PCA-6106-B



### PCA-6106P3-OC1

- Segments: 1
- Slots: 2 ISA, 2 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 142 x 270 mm (5.59" x 10.63")
- Ordering Information: PCA-6106P3-OC1



### PCA-6106P4-0A1

- Segments: 1
- Slots: 4 PCI, 2 PICMG
- Size: 142 x 270 mm (5.59" x 10.63")
- Ordering Information: PCA-6106P4-0A1

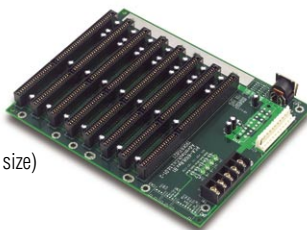


## 8-slot ISA/PCI Backplanes

Compatible with IPC Chassis: IPC-6908/IPC-6608

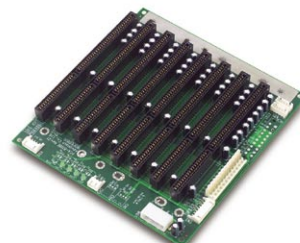
### PCA-6108-OB1

- Segments: 1
- Slots: 8 ISA
- Size: 222 x 171 mm (8.74" x 6.73")
- Only for commercial PC chassis (baby AT size)
- Ordering Information: PCA-6108-OB1



### PCA-6108E-OC1

- Segments: 1
- Slots: 8 ISA
- Size: 180 x 190 mm (7.09" x 7.48")
- Ordering Information: PCA-6108E-OC1



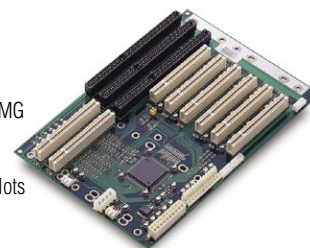
### PCA-6108P4-C

- Segments: 1
- Slots: 3 ISA, 3 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 180 x 260 mm (7.09" x 10.24")
- Ordering Information: PCA-6108P4-C



### PCA-6108P6-OB3

- Segments: 1
- Slots: 1 ISA, 5 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 180 x 260 mm (7.09" x 10.24")
- PCI bridge: Intel® 21152
- Primary PCI: 3 slots; Secondary PCI: 3 slots
- Ordering Information: PCA-6108P6-OB3



# Passive Backplanes

## 14/15-slot ISA/PCI Backplanes

Compatible with IPC Chassis: IPC-616, IPC-615, IPC-611, IPC-610, ACP-4000

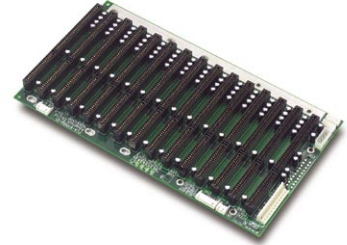
### PCA-6114-OB1

- Segments: 1
- Slots: 14 ISA
- Size: 315 x 175 mm (12.4" x 6.89")
- Ordering Information: PCA-6114-OB1



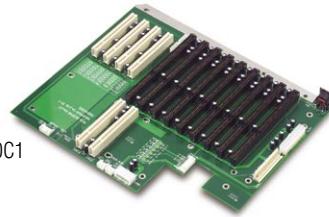
### PCA-6115-OB1

- Segments: 1
- Slots: 15 ISA
- Size: 326 x 190 mm (12.83" x 7.48")
- Only Compatible with IPC-615
- Ordering Information: PCA-6115-OB1



### PCA-6113P4R-OC1

- Segments: 1
- Slots: 7 ISA, 4 PCI, 2 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- Ordering Information: PCA-6113P4R-OC1



### PCA-6113DP4-0A1

- Segment : 2
- Slots : 2 ISA, 7 PCI, 1 PICMG/PCI, 3 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- Ordering Information: PCA-6113DP4-0A1



### PCA-6114P4-C

- Segments: 1
- Slots: 8 ISA, 4 PCI, 2 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- Ordering Information: PCA-6114P4-C



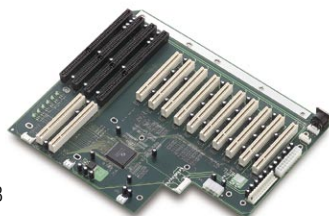
### PCA-6114P7-0D2

- Segments: 1
- Slots: 4 ISA, 6 PCI, 3 PICMG, 1 PCI/ISA
- Size: 315 x 260 mm (12.4" x 10.24")
- PCI bridge: Intel® 21152
- Primary PCI: 3 slots; Secondary PCI: 4 slots
- Ordering Information: PCA-6114P7-0D2



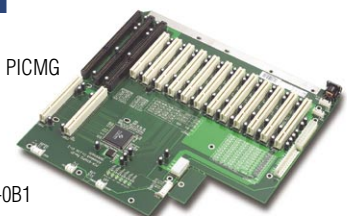
### PCA-6114P10-B

- Segments: 1
- Slots: 2 ISA, 10 PCI, 2 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- PCI bridge: Pericom PI7C8150MA
- Primary PCI: 3 slots;
- Secondary PCI: 7 slots
- Ordering Information: PCA-6114P10-B



### PCA-6114P12-0B1

- Segments: 1
- Slots: 1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 315 x 300 mm (12.4" x 11.8")
- PCI bridge: Pericom PI7C8150MA
- Primary PCI: 3 slots;
- Secondary PCI: 9 slots
- Ordering Information: PCA-6114P12-0B1





# 16/18/19-slot ISA/PCI Backplanes

Compatible with IPC Chassis: IPC-623, IPC-622, ACP-7000, ACP-5260

## PCA-6116QP2-0B1

- Segments: 4
- Slots: 1 ISA, 8 PCI, 7 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- Ordering Information: PCA-6116QP2-0B1



## PCA-6118DP7-0B1

- Segments: 2
- Slots: 1 ISA, 14 PCI, 3 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Dual Intel® 21152
- Primary PCI: 3 slots; Secondary PCI: 4 slots
- Ordering Information: PCA-6118DP7-0B1



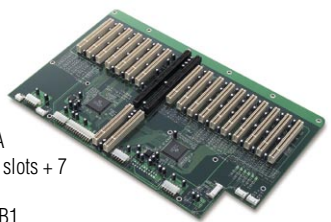
## PCA-6119P7-0B1

- Segments: 1
- Slots: 10 ISA, 7 PCI, 2 PICMG/PCI
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Intel® 21152
- Primary PCI: 3 slots; Secondary PCI: 4 slots
- Ordering Information: PCA-6119P7-0B1



## PCA-6119P17-0B1

- Segments: 1
- Slots: 16 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Dual Pericom PI7C8150MA
- Primary PCI: 2 slots; Secondary PCI: 8 slots + 7 slots
- Ordering Information: PCA-6119P17-0B1



# 20-slot ISA/PCI Backplanes

Compatible with IPC Chassis : IPC-623, IPC-622, ACP-7000, ACP-5260

## PCA-6120-0B1

- Segments: 1
- Slots: 20 ISA
- Size: 417 x 200 mm (16.42" x 7.87")
- Ordering Information: PCA-6120-0B1



## PCA-6120D-0B1

- Segments: 2
- Slots: 10-10 ISA
- Size: 417 x 200 mm (16.42" x 7.87")
- Ordering Information: PCA-6120D-0B1



## PCA-6120Q-0B1

- Segments: 4
- Slots: 5-5-5-5 ISA
- Size: 417 x 200 mm (16.42" x 7.87")
- Ordering Information: PCA-6120Q-0B1



## PCA-6120P4-0B1

- Segments: 1
- Slots: 14 ISA, 4 PCI, 2 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- Ordering Information: PCA-6120P4-0B1





# Passive Backplanes

## 20-slot ISA/PCI Backplanes

Compatible with IPC Chassis: SPC-530, IPC-623, IPC-622, ACP-7000, ACP-5260

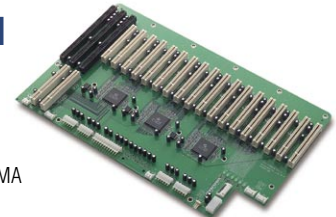
### PCA-6120P12-0A1

- Segments: 1
- Slots: 7 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Pericom PI7C8150MA
- Primary PCI: 3 slots; Secondary PCI: 9 slots
- Ordering Information: PCA-6120P12-0A1



### PCA-6120P18-0A1

- Segments: 1
- Slots: 1 ISA, 17 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 417 x 260 mm (16.42" x 10.24")
- PCI bridge: Three Pericom PI7C8150MA
- Secondary: 6 slot/6 slot/6 slot
- Ordering Information: PCA-6120P18-0A1



### PCA-6120DP4-0B1

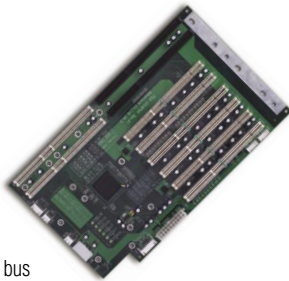
- Segments: 2
- Slots: 7 ISA, 6 PCI, 2 PICMG/PCI, 4 PICMG
- Size: 420 x 260 mm (16.42" x 10.24")
- Ordering Information: PCA-6120DP4-0B1



## 64-bit ISA/PCI Backplanes

### PCA-6108P6X-0A1

- Segments: 1
- Slots: 6 PCI, 2 PICMG
- Size: 180 x 282 mm (7.09" x 11.1")
- PCI bridge: Intel® 21154
- Primary (64-bit/66 MHz): 3 slots
- Secondary (64-bit/33 MHz): 4 slots
- Jumper selectable 1: VI/O 3.3 V or 5V
- Jumper selectable 2: PCI bus 33 MHz or PCI bus 66 MHz
- Chassis: IPC-6908, IPC-6608
- Ordering Information: PCA-6108P6X-0A1



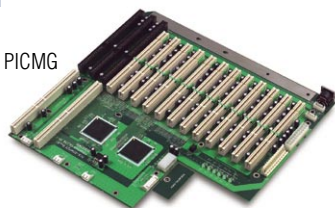
### PCA-6113P7X

- Segments: 1
- Slots: 4 ISA, 7 PCI, 2 PICMG
- Size: 315 x 300 mm (12.4" x 11.8")
- PCI bridge: Intel® 21154
- Primary (64-bit/66 MHz): 3 slots; Secondary (64-bit/66 MHz): 4 slots
- Jumper Selectable 1: VI/O 3.3 V or 5 V
- Jumper selectable 2: PCI bus 33 MHz or PCI bus 66 MHz
- Chassis: IPC-616, IPC-615, IPC-611, IPC-610, ACP-4000
- Ordering Information: PCA-6113P7X



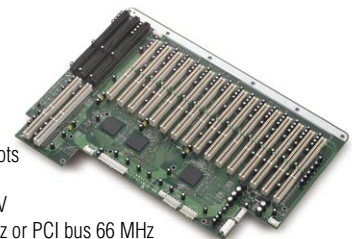
### PCA-6114P12X-A1

- Segments: 1
- Slots: 1 ISA, 11 PCI, 1 PICMG/PCI, 1 PICMG
- Size: 315 x 260 mm (12.4" x 10.24")
- PCI bridge: Intel® 21154
- Secondary (64-bit/66 MHz): 4 slots
- Secondary (64-bit/33 MHz): 8 slots
- Chassis: IPC-616, IPC-615, IPC-611, IPC-610, ACP-4000
- Ordering Information: PCA-6114P12X-A1



### PCA-6119P16X

- Segments: 1
- Slots: 1 ISA, 16 PCI, 2 PICMG
- Size: 417 x 300 mm (16.4" x 11.8")
- PCI bridge: Three Intel® 21154
- Secondary (64-bit/66 MHz): 4 + 3 slots
- Secondary (64-bit/33 MHz): 9 slots
- Jumper selectable 1: VI/O 3.3 V or 5V
- Jumper selectable 2: PCI bus 33 MHz or PCI bus 66 MHz
- Chassis: IPC-623, IPC-622, ACP-7000, ACP-5260
- Ordering Information: PCA-6119P16X



# Pure PCI Backplanes

(Only Compatible with Half-sized CPU Card)

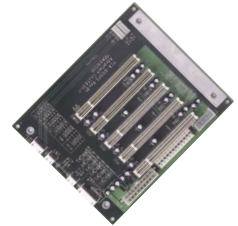
## PCA-6104P4-0B1

- Segments: 1
- Slots: 4 PCI
- Size: 110 x 180 mm (4.3" x 7")
- Chassis: IPC-644, MBPC-641
- Ordering Information: PCA-6104P4-0B1



## PCA-6105P5-0B1

- Segments: 1
- Slots: 5 PCI
- Size: 143 x 155 mm (5.6" x 6")
- Chassis: IPC-6806, IPC-6606, IPC-6006
- Ordering Information: PCA-6105P5-0B1



## PCA-6108P8-0A1

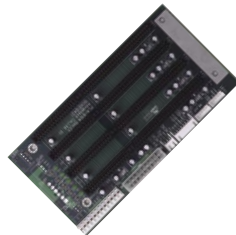
- Segments: 1
- Slots: 8 PCI
- Size: 182 x 185 mm (7.2" x 7.3")
- Chassis: IPC-6908, IPC-6608
- Ordering Information: PCA-6108P8-0A1



# 4-slot ISA Backplanes

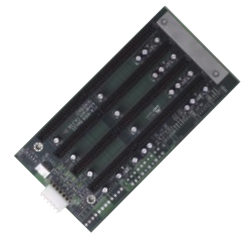
## PCA-6104-0C1

- Segments: 1
- Slots: 4 ISA
- Size: 94.7 x 186 mm (3.7" x 7.3")
- Chassis: IPC-644, MBPC-641
- Ordering Information: PCA-6104-0C1



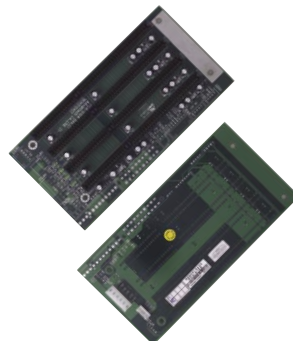
## PCA-6104-1C1

- Segments: 1
- Slots: 4 ISA
- Size: 94.7 x 186 mm (3.7" x 7.3")
- Chassis: IPC-644
- Ordering Information: 969K610410



## PCA-6104-3C1

- Segments: 1
- Slots: 4 ISA
- Size: 94.7 x 186 mm (3.7" x 7.3")
- Chassis: MBPC-641
- Ordering Information: 969K610430



# Power Supplies

## Redundant Power Supply Specifications



### RPS-400H-Z

#### 400W Redundant AC-DC ATX Power Supply (Horizontal Type) with PFC

P/N: RPS-400H-Z							
Input Range	AC 90 ~ 264V @ 47 ~ 63 Hz, full range 8.0/5.0 A						
Output Voltage	+5 V 42A (2A Min)	+3.3 V 20A	+5 V/3.3 V Total 210W	+12 V 14A (0.5A Min)	-5 V 1A	-12 V 1A	+5 Vsb 1A
MTBF(hours)	100,000						
Safety	UL/cUL(60950 3rd)/TUV/CE						
Power Module Part No. (Accessories)	RPM-400H-Z						
Compatible with Advantech Products	IPC-622BP-40RZ/IPC-622BP-40RZB						



### RPS-40XZ-V

#### 400W Redundant AC-DC ATX Power Supply (Vertical Type) with PFC

P/N: RPS-40XZ-V							
Input Range	AC 90 ~ 264V @ 47 ~ 63 Hz, full range 8.0/5.0 A						
Output Voltage	+5 V 42A (2A Min)	+3.3 V 20A	+5 V/3.3 V Total 210W	+12 V 14A (0.5A Min)	-5 V 1A	-12 V 1A	+5 Vsb 1A
MTBF(hours)	100,000						
Safety	UL/cUL(60950 3rd)/TUV/CE						
Power Module Part No. (Accessories)	RPM-40XZ-V						
Compatible with Advantech Products	IPC-623BP-40RZ						



### RPS-300V

#### 300W Redundant AC-DC AT Power Supply (Vertical Type)

P/N: RPS-300V							
Input Range	AC 90 ~ 132V/180 ~ 264V @ 47 ~ 63 Hz, selectable 6.0/3.5 A						
Output Voltage	+5 V 30A (3A Min)	+3.3 V --	+5 V/3.3 V Total --	+12 V 12A (1A Min)	-5 V 0.5A	-12 V 0.5A	+5 Vsb --
MTBF(hours)	100,000						
Safety	UL/CSA/TUV/CE						
Power Module Part No. (Accessories)	RPM-300						
Compatible with Advantech Products	IPC-623BP-300R/IPC-623P4-300R/IPC-623P7-300R						



## RPS-300DC48

### 300W Redundant DC-DC AT Power Supply (Horizontal Type)

P/N: RPS-300DC48							
Input Range	DC -38 ~ -58V/Max. 15A						
Output Voltage	+5 V 25A (2A Min)	+3.3 V --	+5 V/3.3 V Total --	+12 V 10A	-5 V 1A	-12 V 4A	+5 Vsb --
MTBF(hours)	100,000						
Safety	UL/CSA/TUV/CE						
Power Module Part No. (Accessories)	RPM-300DC48						
Compatible with Advantech Products	IPC-622-30RD-01						



## RPS-300

### 300W Redundant AC-DC AT Power Supply (Horizontal Type)

P/N: RPS-300							
Input Range	AC 90 ~ 132V/180 ~ 264V @ 47 ~ 63 Hz, selectable 6.0/3.5 A						
Output Voltage	+5 V 30A (3A Min)	+3.3 V --	+5 V/3.3 V Total --	+12 V 12A (1A Min)	-5 V 0.5A	-12 V 0.5A	+5 Vsb --
MTBF(hours)	100,000						
Safety	UL/CSA/TUV/CE						
Power Module Part No. (Accessories)	RPM-300						
Compatible with Advantech Products	IPC-622-300R/IPC-622-300R-01/IPC-622BP-300RB/IPC-622P4-300R						



## RPS-250-SADT/RPS-250-SDTB

### 230W Redundant AC-DC AT Power Supply

P/N: RPS-250-SADT/RPS-250-SDTB							
Input Range	AC 90 ~ 130V/180 ~ 260V @ 47 ~ 63 Hz, selectable 6.0/3.0 A						
Output Voltage	+5 V 25A (4A Min)	+3.3 V --	+5 V/3.3 V Total --	+12 V 12A (1A Min)	-5 V 1A	-12 V 1A	+5 Vsb --
MTBF(hours)	110,000						
Safety	CSA/TUV						
Power Module Part No. (Accessories)	RPM-250						
Compatible with Advantech Products	RPS-250-SADT: IPC-615/IPC-6908 RPS-250-SDTB: IPC-610/IPC-6608						

# Power Supplies

## PS/2 Power Supply Specifications



### PS-400ATX-Z

400W AC-DC ATX Power Supply with PFC

P/N: PS-400ATX-Z							
Input Range	AC 90 ~ 264V @ 47 ~ 63 Hz, full range 8.0/5.0 A						
Output Voltage	+5 V 42A (2.5A Min)	+3.3 V 20A (0.2A Min)	+5 V/3.3 V Total 210W	+12 V 14A (0.5A Min)	-5 V 1A	-12 V 1A	+5 Vsb 1A
MTBF(hours)	100,000						
Safety	UL/cUL(60950 3rd)/TUV/CE/CB/CCC						
Power Module Part No. (Accessories)	--						
Compatible with Advantech Products	IPC-610F/IPC-615/IPC-616/IPC-6908/ACP-4000 P4 ATX M/B supported						



### PS-400ATX-DC48

400W DC-DC ATX Power Supply

P/N: PS-400ATX-DC48							
Input Range	DC -36 ~ -72V/ Max. 12A						
Output Voltage	+5 V 42A (2.5A Min)	+3.3 V 20A	+5 V/3.3 V Total 210W	+12 V 14A (0.5A Min)	-5 V 1A	-12 V 1A	+5 Vsb 1A
MTBF(hours)	100,000						
Safety	UL/TUV/CB						
Power Module Part No. (Accessories)	--						
Compatible with Advantech Products	OEM/ODM( P4 ATX M/B supported)						



### PS-310-DC48

310W DC-DC AT Power Supply

P/N: PS-310-DC48							
Input Range	DC -38 ~ -58V/Max. 10A						
Output Voltage	+5 V 25A (1A Min)	+3.3 V --	+5 V/3.3 V Total --	+12 V 10A	-5 V 1A	-12 V 5A	+5 Vsb --
MTBF(hours)	100,000						
Safety	UL/CE						
Power Module Part No. (Accessories)	--						
Compatible with Advantech Products	IPC-610/IPC-615/IPC-6908/IPC-602/ACP-2000/ACP-4000						





## PS-300ATX-ZB (1757930070)

300W AC-DC ATX Power Supply with PFC

P/N: PS-300ATX-ZB (1757930070)							
Input Range	AC 90 ~ 264V @ 47 ~ 63 Hz, full range 6.0/3.0 A						
Output Voltage	+5 V 30A (0.1A Min)	+3.3 V 28A (0.3A Min)	+5 V/3.3 V Total 180W	+12 V 15A	-5 V 0.3A	-12 V 0.8A	+5 Vsb 2A
MTBF(hours)	100,000						
Safety	UL/cUL(60950 3rd)/TUV/Nemko/FCC/CE EN61000-3-2 Class D/CB/CCC						
Power Module Part No. (Accessories)	--						
Compatible with Advantech Products	IPC-610/IPC-611/IPC-602/IPC-6908/IPC-6608/IPC-6606/ACP-2000/ACP-4000 P4 ATX M/B supported						



## PS-260-610E

260W AC-DC AT Power Supply

P/N: PS-260-610E							
Input Range	AC 85 ~ 130V/180 ~ 264V @ 47 ~ 63 Hz, selectable 6.0/3.0 A						
Output Voltage	+5 V 25A (1A Min)	+3.3 V --	+5 V/3.3 V Total --	+12 V 9A (0.1A Min)	-5 V 0.5A	-12 V 2A	+5 Vsb --
MTBF(hours)	110,000						
Safety	UL/CSA/TUV						
Power Module Part No. (Accessories)	--						
Compatible with Advantech Products	IPC-610/IPC-602/IPC-6908/IPC-6608						



## PS-250ATX-Z

250W AC-DC ATX Power Supply with PFC

P/N: PS-250ATX-Z							
Input Range	AC 90 ~ 132V/190 ~ 264V @ 47 ~ 63 Hz, selectable 10.0/5.0 A						
Output Voltage	+5 V 27A (0.5A Min)	+3.3 V 20A (0.3A Min)	+5 V/3.3 V Total 175W	+12 V 13A	-5 V 0.3A	-12 V 0.8A	+5 Vsb 2A
MTBF(hours)	100,000						
Safety	UL/cUL(60950 3rd)/TUV/Nemko/FCC/CE EN61000-3-2 Class D/CB/CCC						
Power Module Part No. (Accessories)	--						
Compatible with Advantech Products	IPC-610/IPC-611/IPC-602/IPC-6908/IPC-6608/IPC-6606 P4 ATX M/B supported						

# Power Supplies

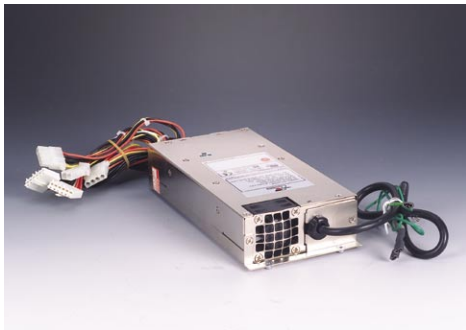
## Open Frame Power Supply Specifications



### 1757920011

#### 200W Open Frame AC-DC ATX Power Supply with PFC

P/N: 1757920011						
Input Range	AC 90 ~ 264V full range					
Output Voltage	+5 V 16A (2A Min)	+3.3 V 14A (1A Min)	+12 V 9A (1A Min)	-5 V 0.2A (0.1A Min)	-12 V 0.7A (0.1A Min)	+5 Vsb 1.5A (0.1A Min)
MTBF(hours)	84,000					
Safety	UL/TUV/CB/CCC					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-6806 & IPC-6806WH by ODM					



### OP-20PZ

#### 200W Open Frame AC-DC AT Power Supply with PFC

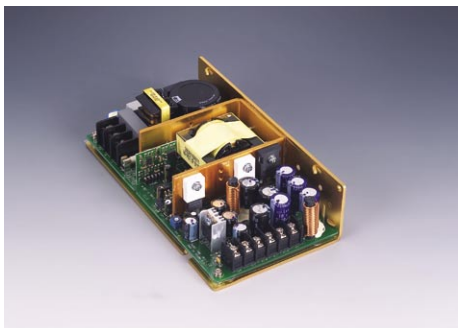
P/N: OP-20PZ						
Input Range	AC 90 ~ 264V full range					
Output Voltage	+5 V 16A (2A Min)	+3.3 V	+12 V 9A (1A Min)	-5 V 0.2A (0.1A Min)	-12 V 0.7A (0.1A Min)	+5 Vsb
MTBF(hours)	84,000					
Safety	UL/TUV/CB/CCC					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-6806, IPC-6806WH					



### PS-150Z

#### 150W Open Frame AC-DC AT Power Supply with PFC

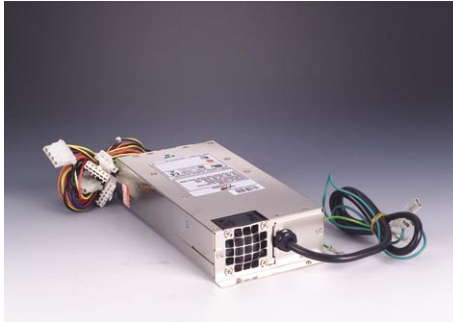
P/N: PS-150Z						
Input Range	AC 90 ~ 264V full range					
Output Voltage	+5 V 15A (3A Min)	+3.3 V	+12 V 5A (1A Min)	-5 V 1A (0.2A Min)	-12 V 1A (0.2A Min)	+5 Vsb
MTBF(hours)	50,000					
Safety	UL/CSA/TUV					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	For stand alone application, IPC-6806 by ODM					



### PS-100

#### 100W Open Frame AC-DC AT Power Supply

P/N: PS-100						
Input Range	AC 90 ~ 132V/180 ~ 264V Auto-range					
Output Voltage	+5 V 9A (2A Min)	+3.3 V	+12 V 3.5A (1A Min)	-5 V 0.75A	-12 V 0.75A	+5 Vsb
MTBF(hours)	50,000					
Safety	UL/CSA/TUV					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-6806S, IPC-6806SP5 and stand alone application					



## OP-15PZ

### 150W Open Frame AC-DC AT Power Supply with PFC

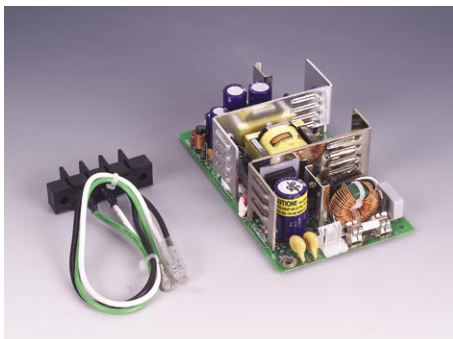
P/N: OP-15PZ						
Input Range	AC 90 ~ 264V full range					
Output Voltage	+5 V 14A (2A Min)	+3.3 V	+12 V 6A (1A Min)	-5 V 0.5A (0.1A Min)	-12 V 0.8A (0.1A Min)	+5 Vsb
MTBF(hours)	84,000					
Safety	UL/TUV/CB/CCC					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-6806S					



## OP-60P-D48

### 60W Open Frame DC48V to DC Power Supply

P/N: OP-60P-D48						
Input Range	DC 36 ~ 72V					
Output Voltage	+5 V 6A	+3.3 V	+12 V 2.5A	-5 V	-12 V 0.3A	+5 Vsb
MTBF(hours)	--					
Safety	--					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-644, MBPC-641					



## OP-60P-D24

### 60W Open Frame DC24V to DC Power Supply

P/N: OP-60P-D24						
Input Range	DC 18 ~ 32V					
Output Voltage	+5 V 6A	+3.3 V	+12 V 2.5A	-5 V	-12 V 0.3A	+5 Vsb
MTBF(hours)	--					
Safety	--					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-644, MBPC-641					



## OP-60P

### 60W Open Frame AC-DC Power Supply

P/N: OP-60P						
Input Range	AC 90 ~ 264V full range					
Output Voltage	+5 V 5A	+3.3 V	+12 V 2.3A	-5 V	-12 V 0.5A	+5 Vsb
MTBF(hours)	100,000					
Safety	UL/CSA/TUV					
Power Module Part No. (Accessories)	--					
Compatible with Advantech Products	IPC-644, MBPC-641					

# SNMP-1000

## Intelligent SNMP/HTTP System Manager



CE

### Features

- Monitors system fans, temperature, voltage, power supply, CPU fan, CPU temperature, Vcore, watchdog timer, etc.
- Stand alone system monitoring: no driver needed, OS independent
- Remote alarm notification through SNMP/HTTP, e-mail or pager
- Easy status monitoring through Ethernet using a browser
- Optional LCD message display
- Highly reliable: functions even when system or power fails
- Modular design eases system integration and customization

### Introduction

The SNMP-1000 is a platform independent system management module that can detect system operating conditions and notify users to take necessary action to avert system failure through multiple communication protocols. With the SNMP-1000 installed, a system monitoring and management can be integrated into a user's existing SNMP-based network management environment. The SNMP-1000 also has a built-in Web-based administration interface which allows users to monitor the system operation from any place with Internet connectivity. The SNMP-1000 adds another dimension of reliability to your most critical applications.

#### Powerful yet Easy to Use

The SNMP-1000 can detect a wide variety of internal system conditions, including temperature, voltage, fan rotation, power supply or CPU operations such as watchdog timer output. Through its I2C interface it can even monitor CPU temperature and voltages of Advantech's full-sized CPU cards. Depending on the alarm severity or user setup, it can generate several different alarm outputs, including SNMP trap, e-mail, pager, acoustic signal, system reset, digital output, or LCD message (requires the SNMP-1000-LCD module). Through the easy to use web-based user interface, users can set the alarm criteria and select alarm outputs for each sensor input independently to meet user requirements. The backup battery enables the SNMP-1000 to perform its alarm function even during total system power failure.

#### Web-enabled, No Driver Needed

The on-board 10/100 Mbps Fast Ethernet interface enables the SNMP-1000 to be connected to your existing network, independent from the system's connection. It supports multiple network protocols such as TCP/IP, SNMP, HTTP and Telnet, allowing you to manage your systems simply by using a web browser. No special software driver is needed thus eliminating compatibility issues with different operating systems.

#### On-line Upgrade and Batch Setup

You can upgrade the firmware on-line by using the included setup utility. There is no need to go to a remote site and disassemble the chassis to collect each SNMP-1000 module or card for firmware upgrade. The setup utility also supports "batch setup" function, which allows you to save a configuration and duplicate it to many other SNMP-1000 modules and cards. This function saves tremendous time and effort when you have a number of SNMP-1000 units installed in your environment.

#### Flexible Modular Hardware Design

The modular design of the SNMP-1000 allows it to be easily customized to fit into any system. The ultra compact module is only 41 mm wide and 94 mm long. It can be mounted on standard or customized carrier boards to plug into any standard PCI/ISA slot. It also can be installed on the specially designed LCD Message Display module (SNMP-1000-LCD) to fit into any 5.25" drive bay.

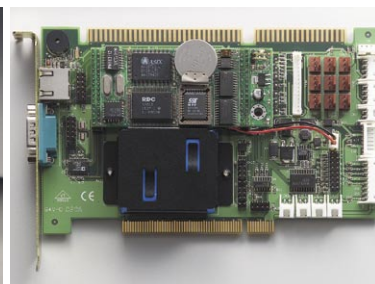
### Accessory Options

#### LCD Message Display Module with Keys

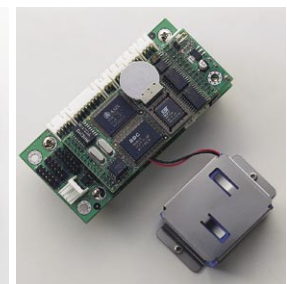
- LCD module: 2 rows, 16 digits, with backlight
- Dimensions (W x H x D): 148 x 42 x 158 mm, compliant with a standard 5.25" device bay
- 5 Keys: Up, Down, Enter, Escape, Alarm Sound Off
- Space reserved to carry a 3.5" hard disk drive



SNMP-1000-LCD



SNMP-1000-E1A1



SNMP-1000-E2A1

## Firmware Specifications

System Status Monitoring and Management	Real-time healthy status monitoring: Provides real-time status display in HTTP/Java graphical format History log up to 600 records. Data can be downloaded through network or sent by e-mail Alarm event record display
Alarm Notification	E-mail: Can set up to 4 addresses to receive e-mails SNMP trap: Notify up to 8 SNMP administrators Pager notification: Dial out through external modem to send messages to up to 8 pagers LCD alarm message display Audible alarm sound
Supported Protocols	TCP, UDP, IP, ICMP, DHCP, BOOTP, ARP, SNMP, HTTP, Telnet
Management Function	Web-based remote configure, control and monitor Remote reset, power down and power up Remote digital output signal control Remote message display control Firmware upgrade from serial port and Ethernet port Modem dial in (console mode only)

## Sensor Specifications

Voltage	Input	+5 V <sub>DC</sub> , -5 V <sub>DC</sub> , +5 V <sub>SB</sub> , +3.3 V <sub>DC</sub> , +12 V <sub>DC</sub> , -12V <sub>DC</sub>
Temperature	Input	9 (one for on-board sensor, eight for external sensors)
	Sensor	LM75
	Interface	I <sup>2</sup> C
Fan Speed	Input	9 (7 for SNMP-1000-E2A1)
	Range	700 ~ 10000 rpm
Power Good	Input	4 (1 for SNMP-1000-E2A1)
	Range	High > 2.4 V <sub>DC</sub> , Low < 0.8 V <sub>DC</sub>
CPU Card Healthy	Interface	I <sup>2</sup> C
	Input	CPU Vcore, CPU fan, CPU temperature (up to 2 CPUs), +5V <sub>DC</sub> , -5V <sub>DC</sub> , V <sub>I/O</sub> , +12V <sub>DC</sub> , -12V <sub>DC</sub>
	Compatibility	PCA-6002-B, 6003, 6004, 6005-B, 6181, 6183, 6184, 6185, 6186, 6277-B, 6187, 6188; AIMB-740, 741, 742, 744
Digital Input/Output	Input	8 (SNMP-1000-E1A1 only)
	Output	4 (3 for SNMP-1000-2A1)

## System Specifications

Processor System	CPU	80188 compatible		
Environment	Firmware	512 KB Embedded Flash ROM		
	Memory	512 KB SRAM		
Ethernet	Interface	10/100 Base-T		
Serial Port	Interface	RS-232		
	Baud Rate	9600 bps		
Miscellaneous	Buzzer Support	Yes		
	Detect Time-out Signal of System	Yes		
	Watchdog Timer	Yes		
Battery	Charge Time	24 hr		
	Battery Type	Ni-MH		
	Capacity	1500 mA-H (full charged, for 15~20 minutes operation, depends on the system configuration)		
	Battery Life	80% capacity @ 20 °C after 1000 cycles of charge and discharge		
Power Requirement	Typical	5 V @ 550 mA		
	Temperature	Operating	Non-Operating	
			0 ~ 60 °C (-32 ~ 140 °F)	-20 ~ 70 °C (4 ~ 158 °F)
		Humidity	--	5 ~ 95 % RH, non-condensing
Physical	Dimensions	Kernel module: 40.5 x 93 mm (1.59" x 3.66")		
		Carrier board: 55 x 115 mm (2.17" x 4.53")		
		PCI/ISA I/O extension module: 175 x 107 mm (6.89" x 4.21")		

## Ordering Information

Part Number	Descriptions
SNMP-1000-E1A1	SNMP/HTTP system manager development kit, including the kernel module mounted on a PCI/ISA carrier board, 3 sets of temperature sensors, and cables
SNMP-1000-E2A1	SNMP/HTTP system manager card for ACP series chassis, including the kernel module
SNMP-1000-LCD	Message display module with keys

Industrial Motherboard 1

Industrial VGA Card 2

Industrial Motherboard Chassis 3

Full-sized CPU Cards 4

Industrial Computer Chassis 5

Industrial Computer Peripherals 6



# LCM-2X16

## LCD Message Display Module with RS-232 Interface



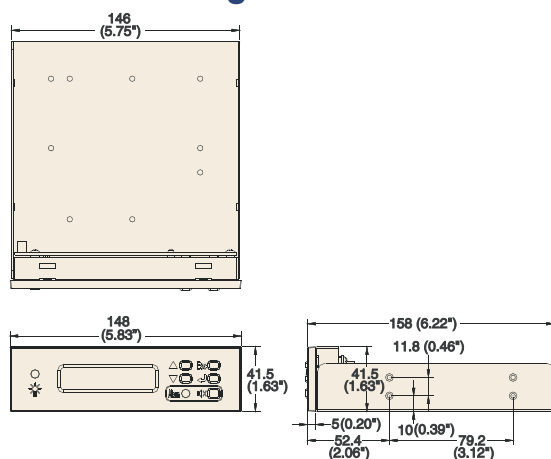
### Features

- 2 lines, 16 characters per line LCD message display with back light
- Size fits into a 5.25" device bay, can carry a 3.5" HDD
- Plastic bezel with 5 keys (up, down, enter, escape and alarm off; user programmable)
- RS-232 interface with easy-to-use predefined protocol
- 8 user-defined icons

### Specifications

LCD Module	2 lines 16 characters per line Programmable back light
Interface	RS-232
Power Requirement	5 V @ 100 mA
Operating/Storage Temperature	0 ~ 50 °C (32 ~ 122 °F)
Dimensions (W x H x D)	147 x 42 x 158 mm (5.79" x 1.65" x 6.22")

### Dimension Diagram



### Packing List

- RS-232 cable connects to Advantech's CPU card COM2 port; X 1 1703090902 with 4-pin power connector
- Startup manual X 1 --
- RS-232 cable with DB-9 & 4-pin power connector X 1 1703090903 (Optional, ordered separately)

### Ordering Information

Part Number	Descriptions
LCM-2X16-00A1	LCD message display module with RS-232 interface

# RHC-IDE-2R

## IDE to IDE RAID Kit



### Features

- RAID level 1, disk mirroring
- Automatic on-line rebuild
- IDE drives hot swappable
- No software driver or add-in card needed
- Host transparent and OS independent
- Battery backup memory for disk array status

Industrial  
Motherboard 1

Industrial  
VGA Card 2

Industrial  
Motherboard  
Chassis 3

Full-sized  
CPU Cards 4

Industrial  
Computer  
Chassis 5

Industrial  
Computer  
Peripherals 6

## Introduction

The RHC-IDE-2R RAID Kit is one fully integrated solution that easily adds internal IDE storage to your computer systems, workstations and Network servers for data redundancy.

RHC-IDE-2R is designed to be a reliable and affordable solution for RAID (Redundant Arrays of Independent Disks) level 1 disk mirroring. With a cost-effective IDE approach, the RHC-IDE-2R mirrors data to two hard drives simultaneously and delivers optimized performance. If one drive fails, the other immediately takes over and an alarm sounds to alert users of the failure. Featuring intelligent on-line recovery, the RHC-IDE-2R provides complete protection to systems data. You can hot-swap a failed drive and the RHC-IDE-2R will rebuild the data automatically to the new drive without any data loss.

No device driver is required for RHC-IDE-2R because it is host transparent and OS independent. Featuring a unique 5.25" Full-Height form factor, mobile rack and LED design, the RHC-IDE-2R lets you easily install backup hard drives, or replace a failed drive.

## Specifications

Host Interface	Ultra ATA 66
Disk Interface	Ultra ATA 66
RAID Level	1
Form Factor	5.25" half-height x2
Temperature	5 ~ 46 °C (40 ~ 115 °F), operating
Power Supply Voltage	5 V, +12 V
Dimensions (W x H x D)	85.1 x 146.2 x 224.6 mm (3.35" x 5.75" x 8.84")

## Ordering Information

Part Number	Descriptions
RHC-IDE-2R	IDE to IDE RAID Kit
9689000756	IDE to IDE RAID Kit (for WD HDD)

# Keyboards



## KBD-6307

### 105-key Keyboard with Touchpad

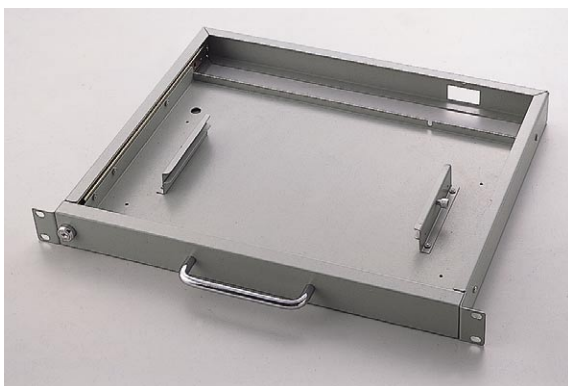
- 105-Key, supports Windows key
- Built-in pressure activated touchpad, fully compatible with Windows, supporting plug & play
- Spiral cable with PS/2 keyboard & mouse connector
- Includes PS/2 to PC/AT and PS/2 to DB-9 adapter
- Dimensions (W x H x D): 392 x 26 x 255 mm (15.4" x 1" x 10")
- Weight: 2 Kg (8.8 lb)
- CE compliant
- Language: US
- P/N: KBD-6307



## KBD-6312

### Rackmount Keyboard with Touchpad

- 105-Key, supports Windows key
- Built-in pressure activated touchpad, fully compatible with Windows, supporting plug & play
- Spiral cable with PS/2 keyboard & mouse connector
- Includes PS/2 to PC/AT and PS/2 to DB-9 adapter
- 19" rackmount
- Height: 1U (44.4 mm, 1.75")
- Ball bearing slide rail with handle and lock
- Dimensions (W x H x D): 482 x 44.4 x 360 mm (19" x 1.75" x 14.2")
- Language: US
- Available in black color
- P/N: KBD-6312, KBD-6312-BLK



## KBD-RMK

### Rackmount Keyboard Drawer

- 19" rackmount
- Height: 1U (44.4 mm, 1.75")
- Ball bearing slide rail with handle and lock
- Compatible with KBD-6304, KBD-6305 and KBD-6307
- Dimensions (W x H x D): 482 x 44.4 x 360 mm (19" x 1.75" x 14.2")
- Weight: 1.5 Kg (3.3 lb)
- 2 mounting brackets and 4 screws included
- CE compliant
- Available in black color
- P/N: KBD-RMK, KBD-RMK-BLK



## PCA-6302

### Compact 104-key Keyboard

- 104-Key with tactile response
- AT & PS/2 compatible
- Over 20 million cycles
- Spiral cable with 6-pin PS/2 keyboard connector (not including PS/2 to 5-pin DIN PC/AT adapter)
- Dimensions (W x H x D): 400 × 40 × 188 mm (15.7" × 1.6" × 7.4")
- Language options: US, CH
- P/N: PCA-6302, PCA-6302C



## KBD-6304

### Compact 88-key Keyboard

- 88-Key with membrane structure
- PC/AT, PS/2, DOSV compatible
- 5 million life cycles
- Spiral cable with 6-pin PS/2 keyboard connector (not including PS/2 to 5-pin DIN PC/AT adapter)
- Dimensions (W x H x D): 287 x 29 x 140 mm (11.3" × 1.14" × 5.5")
- Weight: 0.5 Kg (1.1 lb)
- CE compliant
- FCC, CSA, UL, CNS approvals
- Language options: US, CH
- P/N: KBD-6304, KBD-6304C



## KBD-6305

### Compact 88-key Keyboard with Touchpad

- 88-Key with membrane structure
- PC/AT, PS/2, DOSV compatible
- Built-in Touch-pad for pointing input device
- 5 million life cycles
- Spiral cable with PS/2 keyboard & mouse connector (not including PS/2 to PC/AT and PS/2 to DB-9 adapter)
- Dimensions (W x H x D): 289 x 27 x 227 mm (11.4" × 1.06" × 8.9")
- Weight: 0.8 Kg (1.76 lb)
- CE compliant
- FCC, CSA, UL, CNS approvals
- Language options: US, CH
- P/N: KBD-6305, KBD-6305C

# Accessories



**P/N 1700030500**

ATX connector cable from CPU card to backplane



**P/N 1700060201**

Y-cable for PS/2 mouse & AT keyboard for CPU cards



**P/N 1700060202**

Y-cable for PS/2 mouse & keyboard for CPU cards



**P/N 1700680000**

Ultra2 SCSI external terminator



**P/N 1700681001**

Ultra2 SCSI external cable with 2 male connectors, 1M



**P/N 9689000204**

68-pin to 68-pin SCSI converter with bracket for external wiring



**P/N 9689000205**

68-pin to 50-pin SCSI converter with bracket for external wiring



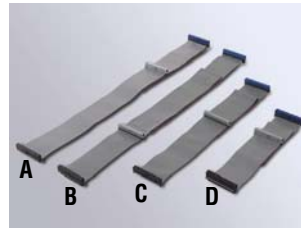
**P/N 9689000206**

68-pin to 50-pin SCSI converter

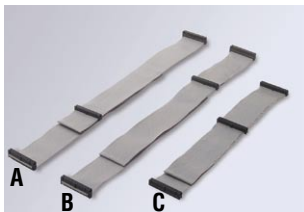




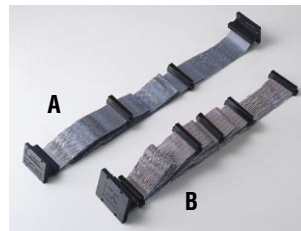
**P/N 1700340640**  
FDD cable for two 3.5" FDD



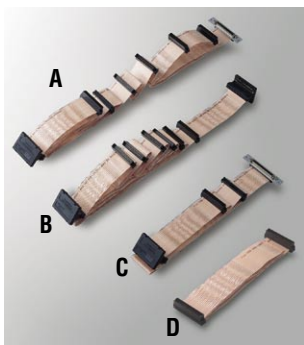
**A. P/N 1701400973**  
HDD cable, ATA 66/100, 62 cm + 35 cm  
**B. P/N 1701400972**  
HDD cable, ATA 66/100, 82 cm + 15 cm  
**C. P/N 1701400652**  
HDD cable, ATA 66/100, 45 cm + 20 cm  
**D. P/N 1701400452**  
HDD cable, ATA 66/100, 45 cm



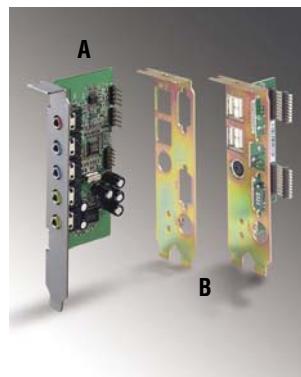
**A. P/N 1701400971**  
HDD cable, ATA 33, 62 cm + 35 cm  
**B. P/N 1701400970**  
HDD cable, ATA 33, 82 cm + 15 cm  
**C. P/N 1701400607**  
HDD cable, ATA 33, 60 cm



**A. P/N 1701680670**  
68-pin SCSI LVDS cable, with 2 male connectors and terminators at both ends, 67 cm  
**B. P/N 1700000182**  
68-pin SCSI LVDS cable, with 5 male connectors and 1 terminator, 125 cm



**A. P/N 1701681790**  
68-pin SCSI LVDS cable, F-6M-T, 179 cm, for RAID-500U3  
**B. P/N 1701681560**  
68-pin SCSI LVDS cable, T-6M-T, 156 cm  
**C. P/N 1701681100**  
68-pin SCSI LVDS cable, F-M-M-T, 110 cm  
**D. P/N 1701680550**  
68-pin SCSI LVDS cable, F-M-M-T, 53 cm



**A. P/N PCA-AUDIO-00A1**  
Audio extension module (AC-97) provides Line-in, MIC-in, Aux-in, Line-out, Speaker-out, CD-in and Buzzer-in from CPU card  
**B. P/N PCA-USB4-00A1**  
USB extension module with 4 ports



**P/N 1700000136**  
S-Video cable, 180cm



**P/N 1700000137**  
AV cable, 180cm

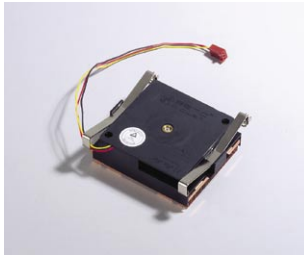
# Accessories



**P/N 1759200100**  
CPU cooler for Pentium® MMX CPU



**1759212600**  
CPU cooler for Pentium® III up to 1 GHz



**P/N 1759214200**  
CPU cooler for Pentium® 4 up to 2.8 GHz,  
for 1U chassis



**P/N 1759254100**  
CPU cooler for Pentium® III up to 1.26 GHz,  
for 1U chassis



**P/N 1701260305**  
Serial port and parallel port cables with  
bracket



**P/N 1700100170**  
USB cable with 2 ports, 17.5 cm



**P/N 1700100301**  
USB cable with 2 ports, 30 cm



**P/N 1700000259**  
15-pin to 9-pin D-Sub VGA cable, 20 cm



**P/N 1700000450**  
ATX to AT power converter