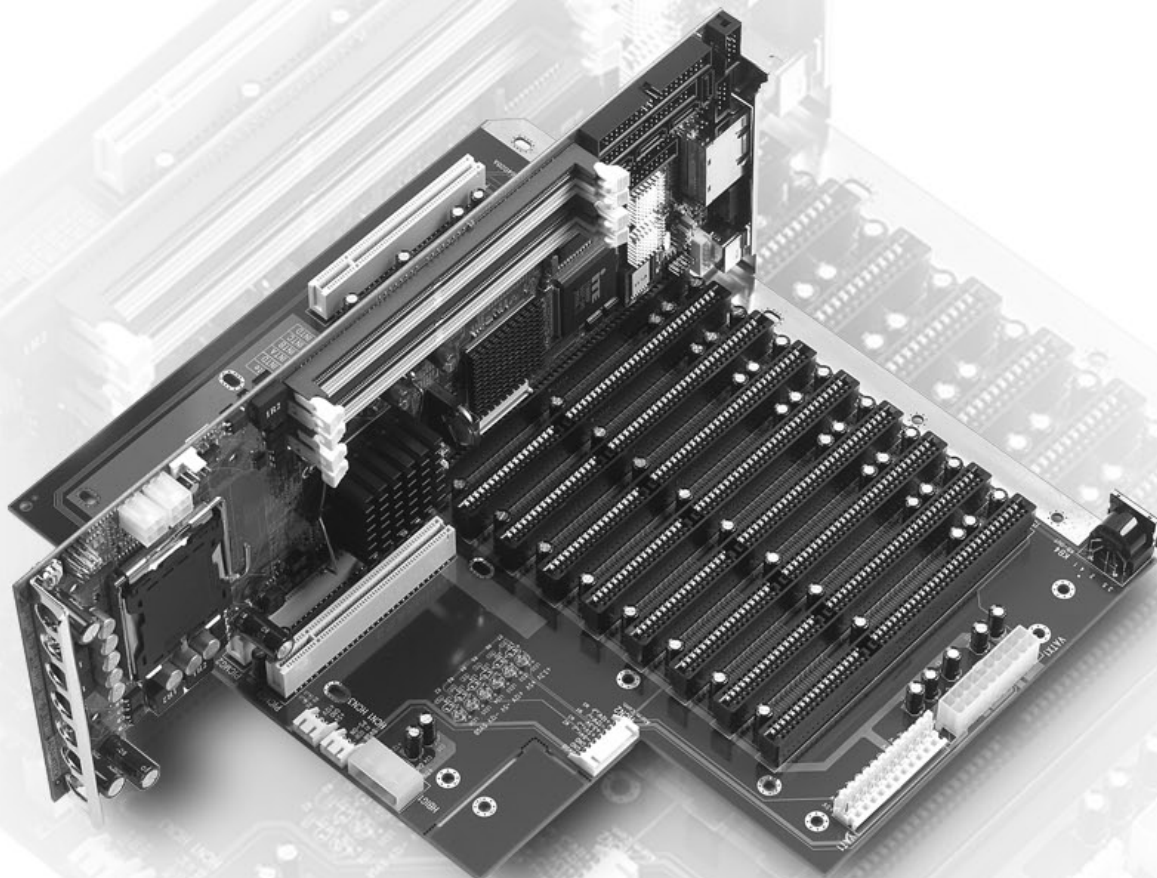
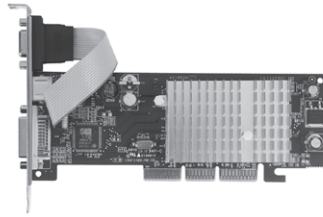


## Industrial PC Peripherals

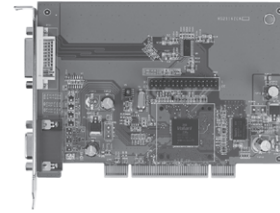
|                                  |   |              |
|----------------------------------|---|--------------|
| <b>Industrial Graphics Cards</b> |   | <b>22-2</b>  |
| <b>PCA-5612</b>                  | Value Industrial PCI Graphics Card with Low Power Consumption | <b>22-3</b>  |
| <b>PCA-5630</b>                  | Industrial AGP Graphics Card for Multimedia Applications      | <b>22-4</b>  |
| <b>Riser Cards</b>               |   | <b>22-5</b>  |
| <b>SNMP-1000-B</b>               | Intelligent SNMP/HTTP System Manager                          | <b>22-7</b>  |
| <b>Power Supplies</b>            |   | <b>22-9</b>  |
| <b>CPU Coolers</b>               |   | <b>22-12</b> |
| <b>Keyboards</b>                 |   | <b>22-13</b> |
| <b>Accessories</b>               |   | <b>22-14</b> |



# Industrial Graphics Cards



PCA-5630



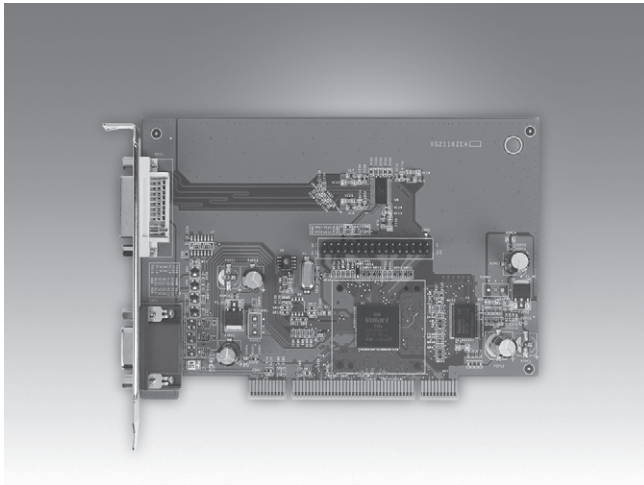
PCA-5612

## Selection Guide

|                | PCA-5630  | PCA-5612  |
|----------------|---|---|
| GPU            | XGI Volari™ V3XE                                  | XGI Volari™ Z9s                                   |
| Bus            | AGP 3.0-4X  | PCI 2.2   |
| Memory         | 128MB DDR SDRAM support (64-bit, 200 MHz)         | 32MB DDR2 SDRAM (16-bit, 125 MHz)                 |
| CRT1 Output    | 2048 x 1536, up to 85 Hz vertical rate            | 1600 x 1200, up to 60 Hz vertical rate            |
| CRT2 Output    | 1600 x 1200, up to 60 Hz vertical rate            | -   |
| TV-out Output  | S-Video/Composite port, up to 720p & 1080i        | -   |
| DVI            | Single Link TMDS up to UXGA (1600 x 1200 @ 60 Hz) | Single Link TMDS up to UXGA (1600 x 1200 @ 60 Hz) |
| OS Supported   | Microsoft® WindowsXP/2K/Linux                     | Microsoft® WindowsXP/2K/Linux/Unix FreeBSD        |
| Reference Page | 22-3  | 22-4  |

# PCA-5612

## Value Industrial PCI Graphics Card with Low Power Consumption



RoHS COMPLIANT 2002/95/EC CE FCC

### Features

- Industrial graphics card with long life support
- 32 MB DDR2 SDRAM
- Support mirror mode dual display
- Support VGA and DVI outputs

### Specifications

|                   |                   |  |                           |
|-------------------|-------------------|--|---------------------------|
| Processor System  | GPU (0.13 micron) | XGI Volari™ Z9s  |                           |
| Bus               | PCI               | PCI 2.2  |                           |
| Memory            | Memory Clock      | 125 MHZ  |                           |
|                   | Memory Interface  | 16-bit   |                           |
|                   | Memory Size       | 32 MB DDR2 SDRAM   |                           |
| Video Output      | CRT               | 1600 x 1200, up to 60 Hz vertical rate   |                           |
|                   | DVI               | Single Link TMDS up to UXGA (1600 x 1200 @ 60 Hz).                                       |                           |
| Display Mode      | Dual Display      | CRT + DVI in Windows XP/2K/Linux, supporting mirror only, NOT supporting extension mode. |                           |
| Power Requirement | +3.3V             | +5V  |                           |
|                   | 0.658A            | 0.294A   |                           |
| Environment       | Temperature       | Operating  | Non-Operating             |
|                   |                   | 0 ~ 60° C (32 ~ 140° F)  | -20 ~ 70° C (-4 ~ 158° F) |
| Physical          | Dimensions        | 150 x 105 mm (5.91" x 4.13")   |                           |

### Ordering Information

| Part Number    | VGA | TV-out | DVI |
|----------------|-----|--------|-----|
| PCA-5612-00A1E | Yes | -      | Yes |

### Packing List

| Part Number                  | Quantity |
|------------------------------|----------|
| PCA-5612 Industrial VGA card | X 1      |
| PCA-5612 Startup Manual      | X 1      |
| Warranty Certificate         | X 1      |
| CD with driver utility       | X 1      |

18  
Industrial Motherboards

19  
Single Board Computers

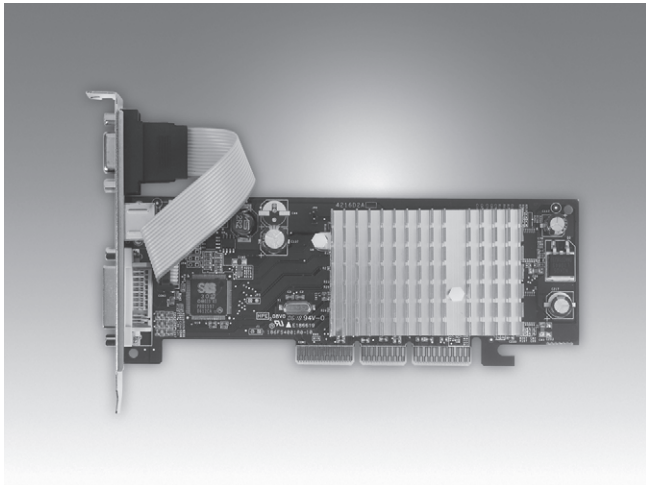
20  
Industrial Computer Chassis

21  
High Performance Computing

22  
Industrial PC Peripherals

# PCA-5630

## Industrial AGP Graphics Card for Multimedia Applications



### Features

- Industrial AGP graphics card with long life support
- 128 MB DDR SDRAM
- Support dual display modes
- Support VGA, S-Video and DVI outputs

### Specifications

|                   |                       |   |                           |
|-------------------|-----------------------|---|---------------------------|
| Processor System  | GPU (0.13 micron)     | XGI Volari™ V3XE  |                           |
|                   | Graphics Clock        | 250 MHz   |                           |
| Bus               | AGP                   | AGP 3.0, 4X   |                           |
| Memory            | Memory Clock          | 200 MHz   |                           |
|                   | Memory Interface      | 64-bit  |                           |
|                   | Memory Size           | 128 MB DDR SDRAM  |                           |
| Video Output      | CRT 1                 | 2048 x 1536, up to 85 Hz vertical rate  |                           |
|                   | CRT 2 (DVI + Adapter) | 1600 x 1200, up to 60 Hz vertical rate  |                           |
|                   | TV-out                | S-Video/Composite port; HDTV up to 720p & 1080i   |                           |
|                   | DVI                   | Single Link TMDS up to UXGA (1600 x 1200 @ 60 Hz).  |                           |
| Display Mode      | Dual Display          | Under Windows® XP, all the 4 combinations shown below support mirror mode and extension mode, while under Windows 2000, these combinations support only mirror mode.<br>(1) CRT1 (CON3) + CRT2 (DVI1 + DVI-VGA Adapter)<br>(2) CRT1 + DVI<br>(3) CRT1 + S-Video<br>(4) S-Video + DVI<br>Under Linux, this product only supports CRT1 + DVI mirror mode. |                           |
| Power Requirement | +3.3V                 | +5V   | +12V                      |
|                   | 2.884A                | 1.247A  | 0A                        |
| Environment       | Temperature           | Operating   | Non-Operating             |
|                   |                       | 0 ~ 60° C (32 ~ 140° F)   | -20 ~ 70° C (-4 ~ 158° F) |
| Physical          | Dimensions            | 175 x 65 mm (6.89" x 2.56")   |                           |

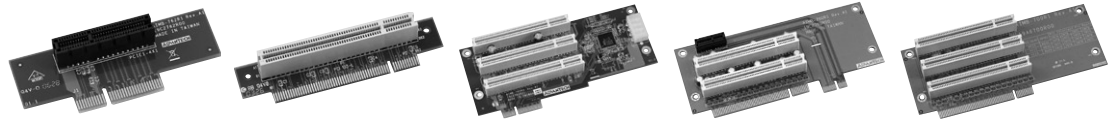
### Ordering Information

| Part Number    | VGA | TV-out | DVI |
|----------------|-----|--------|-----|
| PCA-5630-00A1E | Yes | Yes    | Yes |

### Packing List

| Part Number                  | Quantity |
|------------------------------|----------|
| PCA-5630 Industrial VGA card | X 1      |
| PCA-5630 Startup Manual      | X 1      |
| DVI-VGA Adapter              | X 1      |
| Warranty Certificate         | X 1      |
| CD with driver utility       | X 1      |

# Riser Cards



18  
Industrial Motherboards

19  
Single Board Computers

20  
Industrial Computer Chassis

21  
High Performance Computing

22  
Industrial PC Peripherals

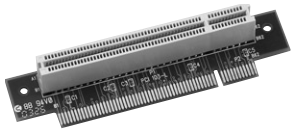
|                |          | AIMB-R4104-01A1E | AIMB-RP10P-01A1E | AIMB-R430P-03A1E | AIMB-RH31P-12A1E  | AIMB-RP30P-03A1E |
|----------------|----------|------------------|------------------|------------------|-------------------|------------------|
| Interface      |          | PCIe x4          | PCI              | PCIe x4          | PCIe x1 + PCI     | PCI              |
| Expansion Slot |          | 1 PCIe x4        | 1 PCI            | 3 PCI            | 1 PCIe x1 + 2 PCI | 3 PCI            |
| Chassis        | 1U       | Yes              | Yes              | -                | -                 | -                |
|                | 2U       | -                | -                | Yes              | Yes               | Yes              |
| ATX            | AIMB-762 | Yes              | -                | Yes              | -                 | -                |
|                | AIMB-760 | -                | Yes              | -                | Yes               | Yes              |
|                | AIMB-750 | -                | Yes              | -                | -                 | Yes              |
|                | AIMB-744 | -                | Yes              | -                | -                 | Yes              |
|                | AIMB-742 | -                | Yes              | -                | -                 | Yes              |
|                | AIMB-740 | -                | Yes              | -                | -                 | Yes              |
| Micro ATX      | AIMB-562 | -                | Yes              | -                | -                 | △                |
|                | AIMB-560 | -                | Yes              | -                | -                 | Yes              |
|                | AIMB-554 | Yes              | -                | Yes              | -                 | -                |
|                | AIMB-542 | -                | Yes              | -                | -                 | △                |

Yes: Fully compatible.

△: Due to design limitation, only the PCI 1 slot of AIMB-RP30P-03A1 functions.

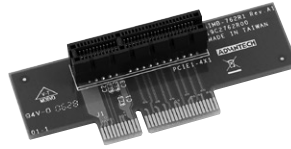
# Riser Cards

## 1U Riser Cards



### AIMB-RP10P-01A1E

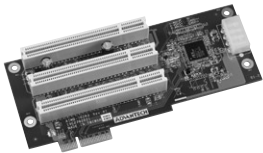
- Connecting Interface: PCI x1
- Expansion Slots: 1 PCI



### AIMB-R4104-01A1E

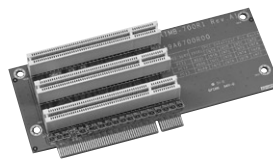
- Connecting Interface: PCIe x4
- Expansion Slots: 1 PCIe x4

## 2U Riser Cards



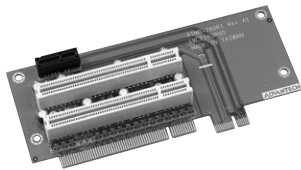
### AIMB-R430P-03A1E

- Connecting Interface: PCIe x4
- Expansion Slots: 3 x 32-bit/33 MHz PCI



### AIMB-RP30P-03A1E

- Connecting Interface: 3 x 32-bit/33 MHz PCI
- Expansion Slots: 3 x 32-bit/33 MHz PCI

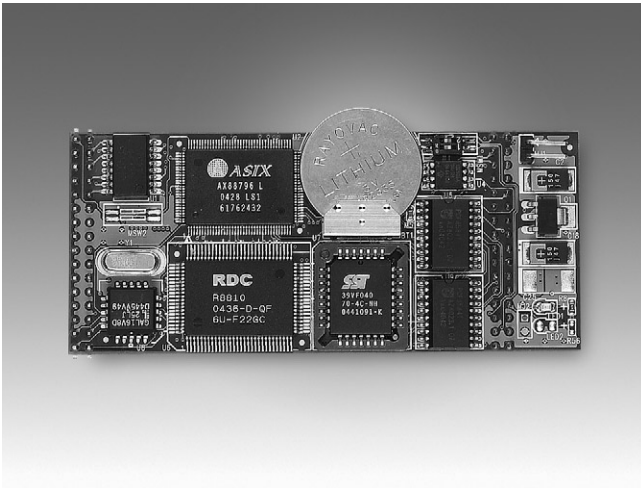


### AIMB-RH31P-12A1E

- Connecting Interface: 32-bit/33 MHz PCI + PCIe x1
- Expansion Slots: 2 x 32-bit/33 MHz PCI, 1 PCIe x1

# SNMP-1000-B

## Intelligent SNMP/HTTP System Manager



### 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
- Highly reliable: functions even when system or power fails
- Modular design eases system integration and customization

18  
Industrial Motherboards

19  
Single Board Computers

20  
Industrial Computer Chassis

21  
High Performance Computing

22  
Industrial PC Peripherals

## Introduction

The SNMP-1000-B 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-B installed, a system monitoring and management can be integrated into an existing SNMP-based network management environment. The SNMP-1000-B 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-B adds another dimension of reliability to your most critical applications.

### Powerful yet Easy to Use

The SNMP-1000-B 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 and digital output. 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-B to perform its alarm function even during total system power failure.

### Web-enabled, No Driver Needed

The onboard 10/100 Mbps Fast Ethernet interface enables the SNMP-1000-B 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.

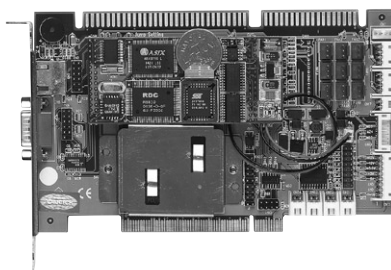
### Online Upgrade and Batch Setup

You can upgrade the firmware online 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-B 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-B modules and cards. This function saves tremendous time and effort when you have a number of SNMP-1000-B units installed in your environment.

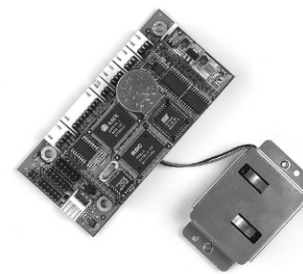
### Flexible Modular Hardware Design

The modular design of the SNMP-1000-B 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.

## Optional



SNMP-1000-E1B1E



SNMP-1000-E2B1E

## Firmware Specifications

|   |  |
|---|--|
| System Status Monitoring and Management | Real-time healthy status monitoring: Provides real-time status display in HTTP/Java graphical format<br>History log up to 600 records. Data can be downloaded through network or sent by e-mail<br>Alarm event record display                                  |
| Alarm Notification                      | E-mail: Can set up to 4 addresses to receive e-mails<br>SNMP trap: Notify up to 8 SNMP administrators<br>Pager notification: Dial out through external modem to send messages to up to 8 pagers<br>Audible alarm sound   |
| Supported Protocols                     | TCP, UDP, IP, ICMP, DHCP, BOOTP, ARP, SNMP, HTTP, Telnet   |
| Management Function                     | Web-based remote configure, control and monitor<br>Remote reset, power down and power up<br>Remote digital output signal control<br>Remote message display control<br>Firmware upgrade from serial port and Ethernet port<br>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> , -12 V <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            | Range         | -30 ~ 125° C (-22 ~ 257° F)   |
|                      | Input         | 9 (7 for SNMP-1000-E2B1E)   |
| Power Good           | Range         | 700 ~ 10000 rpm   |
|                      | Input         | 4 (1 for SNMP-1000-E2B1E)   |
| CPU Card Healthy     | Range         | High > 2.4 V <sub>DC</sub> , Low < 0.8 V <sub>DC</sub>  |
|                      | Interface     | I <sup>2</sup> C  |
|                      | Input         | CPU Vcore, CPU fan, CPU temperature (up to 2 CPUs), +5 V <sub>DC</sub> , -5 V <sub>DC</sub> , V <sub>IO</sub> , +12 V <sub>DC</sub> , -12 V <sub>DC</sub> |
| Digital Input/Output | Compatibility | PCA-6002-B, 6003, 6004, 6186, 6187, 6188, 6189, 6190<br>AIMB-740, 742, 744, 750, 760, 762, 560, 554   |
|                      | Input         | 8 (SNMP-1000-E1B1E only)  |
| Output               | Output        | 4 (3 for SNMP-1000-E2B1E)   |

## System Specifications

|                          |                                  |   |                            |
|--------------------------|----------------------------------|---|----------------------------|
| Processor System         | CPU                              | 80188 compatible  |                            |
| Environment              | Firmware                         | 512 KB Embedded Flash ROM   |                            |
|                          | Memory                           | 512 KB SRAM   |                            |
| Ethernet                 | Interface                        | 10/100Base-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                      | 3 hr  |                            |
|                          | Battery Type                     | Li-Ion  |                            |
|                          | Capacity                         | 1800 mAh (full charged, for 45 ~ 50 minutes operation, depending on system configuration)   |                            |
|                          | Battery Life                     | 1 year @ 20° C, 80% capacity after 500 cycles of charge and discharge   |                            |
| Power Requirement        | Typical                          | 5 V @ 550 mA  |                            |
|                          | Operating                        | Non-Operating   |                            |
|                          | Temperature                      | 0 ~ 60° C (-32 ~ 140° F)  | -20 ~ 70° C (4 ~ 158° F)   |
|                          | Humidity                         | -   | 5 ~ 95% RH, non-condensing |
| Physical Characteristics | Dimensions                       | Kernel module: 40.5 x 93 mm (1.59" x 3.66")<br>Carrier board: 55 x 115 mm (2.17" x 4.53")<br>PCI/ISA I/O extension module: 175 x 107 mm (6.89" x 4.21") |                            |

## Ordering Information

| Part Number     | Description   |
|-----------------|---|
| SNMP-1000-E1B1E | 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-E2B1E | SNMP/HTTP system manager card for ACP series chassis, including the kernel module<br>* Compatible with Advantech chassis series: IPC-622, IPC-623, IPC-7143, IPC-7220 and all ACP series chassis (except ACP-1000P2/X2) |



# Power Supplies

RoHS  
COMPLIANT  
2002/95/EC

## Redundant Power Supplies



| Model Names                       | 1757000177G<br>1757946007G  | 1757000197G<br>1757946006G   | RPS-400ATX-ZE   |
|-----------------------------------|---|--|---|
| Wattage                           | 460 W   | 460 W  | 400 W   |
| Input Range                       | 100 ~ 240 V <sub>AC</sub><br>47 ~ 63 Hz<br>8 ~ 4 A  | 100 ~ 240 V <sub>AC</sub><br>47 ~ 63 Hz<br>8 ~ 4 A   | 100 ~ 240 V <sub>AC</sub><br>47 ~ 63 Hz<br>8 ~ 4 A  |
| Outputs                           | +5 V @ 40 A (5 A min)<br>+3.3 V @ 30 A (1 A min)<br>+12 V @ 32 A (2.5 A min)<br>-12 V @ 1 A<br>-5 V @ 0.8 A<br>+5 Vsb @ 2 A | +5 V @ 40 A (5 A min)<br>+3.3 V @ 30 A (1 A min)<br>+12 V @ 32 A (2.5 A min)<br>-12 V @ 1 A<br>-5 V @ 0.8 A<br>+5 Vsb @ 2A | +5 V @ 35 A (3 A min)<br>+3.3 V @ 25 A (1 A min)<br>+12 V @ 28 A (2 A min)<br>-12 V @ 1.2 A<br>-5 V @ 0.5 A<br>+5 Vsb @ 2 A |
| Power Module PN                   | 1757946008G   | 1757000228G  | 1757000227G   |
| MTBF (hrs)                        | 100,000   | 100,000  | 100,000   |
| Dimension (H x W x D, mm)         | 106 x 354 x 185.8   | 183 x 167 x 187.8  | 86 x 150 x 185  |
| Safety                            | UL, TUV, CB, CCC  | UL, TUV, CB, CCC   | UL, TUV, CB, CCC  |
| Compatible with Advantech Chassis | 1757000177G: ACP-7000BP, IPC-622<br>1757946007G: ACP-7000MB   | 1757000197G: ACP-5260BP, IPC-623<br>1757946006G: ACP-5260MB  | ACP-4000, ACP-4320, ACP-4362, IPC-610,<br>IPC-611, IPC-630, IPC-7220, IPC-7143  |



| Model Names                       | RPS-300ATX-ZE   | 1757957002G<br>1757957001G<br>1757000127G   | 1757981000G<br>1757981001G<br>1757000128G   |
|-----------------------------------|---|---|---|
| Wattage                           | 300 W   | 570 W/810 W N+1   | 810 W 3+1   |
| Input Range                       | 100 ~ 240 V <sub>AC</sub><br>60 ~ 50 Hz<br>6 ~ 3 A  | 115 ~ 230 V <sub>AC</sub><br>60 ~ 50 Hz<br>12 ~ 6 A   | 115 ~ 230 V <sub>AC</sub><br>60 ~ 50 Hz<br>12 ~ 6 A   |
| Outputs                           | +5 V @ 25 A (3 A min)<br>+3.3 V @ 18 A (1 A min)<br>+12 V @ 16 A (2 A min)<br>-12 V @ 0.5 A<br>-5 V @ 0.5 A<br>+5 Vsb @ 2 A | +5 V @ 50 A (6 A min)<br>+3.3 V @ 40 A (2 A min)<br>+12 V @ 34 A (3 A min)<br>-12 V @ 1 A<br>-5 V @ 1 A<br>+5 Vsb @ 1.2 A | +5 V @ 75 A (9 A min)<br>+3.3 V @ 60 A (3 A min)<br>+12 V @ 51 A (4.5 A min)<br>-12 V @ 1.5 A<br>-5 V @ 1.5 A<br>+5 Vsb @ 1.6 A |
| Power Module PN                   | 1757930060G   | 1757930057G: ACP-7000<br>1757000126G: ACP-5260, IPC-623   | 1757930057G: ACP-7000<br>1757000126G: ACP-5260, IPC-623   |
| MTBF (hrs)                        | 100,000   | 100,000   | 100,000   |
| Dimension (H x W x D, mm)         | 86 x 150 x 185  | 1757957002G: 95 x 356 x 230<br>1757957001G: 95 x 356 x 230<br>1757000127G: 200.6 x 164 x 230                              | 1757981000G: 95 x 356 x 230<br>1757981001G: 95 x 356 x 230<br>1757000128G: 200.6 x 164 x 230                                    |
| Safety                            | UL, TUV, CB, CCC  | UL, TUV, CB   | UL, TUV, CB, CCC  |
| Compatible with Advantech Chassis | ACP-2000, ACP-4000, ACP-4320, IPC-610,<br>IPC-611, IPC-630, IPC-7220, IPC-7143  | 1757957002G: ACP-7000BP<br>1757957001G: ACP-7000MB<br>1757000127G: IPC-623BP, ACP-5260BP                                  | 1757981000G: ACP-7000BP<br>1757981001G: ACP-7000MB<br>1757000128G: IPC-623BP, ACP-5260BP  |

18  
Industrial Motherboards

19  
Single Board Computers

20  
Industrial Computer Chassis

21  
High Performance Computing

22  
Industrial PC Peripherals

# Power Supplies



## PS/2 Power Supplies



| Model Names                       | PS-700ATX-ZE  | PS-500ATX-ZE   | PS-400ATX-ZBE  |
|-----------------------------------|---|--|--|
| Wattage                           | 700 W   | 500 W  | 400 W  |
| Input Range                       | 100 ~ 240 V <sub>AC</sub><br>60 ~ 50 Hz<br>11 ~ 5 A   | 115 ~ 250 V <sub>AC</sub><br>63 ~ 47 Hz<br>8 ~ 4 A   | 100 ~ 240 V <sub>AC</sub><br>63 ~ 47 Hz<br>8 ~ 4 A   |
| Outputs                           | +5 V @ 50 A (2.5 A min)<br>+3.3 V @ 45 A (1 A min)<br>+12 V @ 36 A (1 A min)<br>-12 V @ 1 A<br>-5 V @ 0.8 A<br>+5 Vsb @ 2 A | +5 V @ 40 A (3 A min)<br>+3.3 V @ 30 A (1 A min)<br>+12 V @ 32 A (1 A min)<br>-12 V @ 1 A<br>-5 V @ 0.8 A<br>+5 Vsb @ 2 A  | +5 V @ 35 A (2.5 A min)<br>+3.3 V @ 25 A (1 A min)<br>+12 V @ 30 A (1 A min)<br>-12 V @ 1 A<br>-5 V @ 0.8 A<br>+5 Vsb @ 2 A                                      |
| Power Module PN                   | -   | -  | -  |
| MTBF (hrs)                        | 72,100  | 98,000   | 91,000   |
| Dimension (H x W x D,mm)          | 86 x 150 x 220  | 86 x 150 x 140   | 86 x 150 x 140   |
| Safety                            | UL, TUV, CB, CCC  | UL, TUV, CB, CCC   | UL, TUV, CB, CCC   |
| Compatible with Advantech Chassis | ACP-4000, ACP-4320, ACP-4362, IPC-610MB-F, IPC-611, IPC-615, IPC-630MB  | ACP-4000, ACP-4320, ACP-4362, IPC-610, IPC-611, IPC-615, IPC-622 (P/N: 1757000162G), IPC-623 (P/N: 1757000133G), IPC-630, IPC-6608, IPC-6908, IPC-7143, IPC-7220 | ACP-4000, ACP-4320, ACP-4362, IPC-610, IPC-611, IPC-615, IPC-622 (P/N: 1757000193G), IPC-623 (P/N: 1757000131G), IPC-630, IPC-6608, IPC-6908, IPC-7143, IPC-7220 |



| Model Names                       | PS-300ATX-DC48E   | PS-300ATX-ZBE   | PS-250ATX-ZE  |
|-----------------------------------|---|---|---|
| Wattage                           | 300 W   | 300 W   | 250 W   |
| Input Range                       | 72 ~ 36 V <sub>DC</sub><br>15 A   | 100 ~ 240 V <sub>AC</sub><br>60 ~ 50 Hz<br>10 A   | 115 ~ 230 V <sub>AC</sub><br>60 ~ 50 Hz<br>10-5 A   |
| Outputs                           | +5 V @ 30 A (0.3 A min)<br>+3.3 V @ 28 A (0.3 A min)<br>+12 V @ 15 A (0.2 A min)<br>-12 V @ 0.8 A<br>-5 V @ 0.3 A<br>+5 Vsb @ 2 A     | +5 V @ 30 A (0.5 A min)<br>+3.3 V @ 28 A (0.3 A min)<br>+12 V @ 15 A (1 A min)<br>-12 V @ 0.8 A<br>-5 V @ 0.3 A<br>+5 Vsb @ 2 A       | +5 V @ 27 A (0.5 A min)<br>+3.3 V @ 20 A (0.3 A min)<br>+12 V @ 13 A (1 A min)<br>-12 V @ 0.8 A<br>-5 V @ 0.3 A<br>+5 Vsb @ 2 A |
| Power Module PN                   | -   | -   | -   |
| MTBF (hrs)                        | 100,000   | 100,000   | 100,000   |
| Dimension (H x W x D, mm)         | 86 x 150 x 140  | 86 x 150 x 140  | 86 x 150 x 140  |
| Safety                            | UL, TUV, CB, CCC  | UL, TUV, CB, CCC  | UL, TUV, CB, CCC  |
| Compatible with Advantech Chassis | ACP-2000, ACP-4000, ACP-4320, ACP-4362, IPC-602, IPC-610, IPC-611, IPC-615, IPC-630, IPC-6606, IPC-6608, IPC-6908, IPC-7143, IPC-7220 | ACP-2000, ACP-4000, ACP-4320, ACP-4362, IPC-602, IPC-610, IPC-611, IPC-615, IPC-630, IPC-6606, IPC-6608, IPC-6908, IPC-7143, IPC-7220 | ACP-2000, IPC-602, IPC-610, IPC-611, IPC-615, IPC-6606, IPC-6608, IPC-6908  |

# Power Supplies

RoHS  
COMPLIANT  
2002/95/EC

## Small Form Factor Power Supplies



| Model Names                       | 1757000160G<br>1757000229G  | OP-20PZE  | 1757000209G  |
|-----------------------------------|---|---|--|
| Wattage                           | 1U, 300 W   | 200 W   | 1U, 150 W  |
| Input Range                       | 100 ~ 240 V <sub>AC</sub><br>63 ~ 47 Hz<br>6 ~ 3 A  | 100 ~ 240 V <sub>AC</sub><br>63 ~ 47 Hz<br>4 ~ 2 A                              | 100 ~ 240 V <sub>AC</sub><br>63 ~ 47 Hz<br>4 ~ 2 A   |
| Outputs                           | +5 V @ 25 A (3 A min)<br>+3.3 V @ 14 A (1 A min)<br>+12 V @ 16 A (2 A min)<br>-12 V @ 1 A<br>-5 V @ 0.5 A<br>+5 Vsb @ 2 A | +5 V @ 16 A (2 A min)<br>+12 V @ 9 A (1 A min)<br>-12 V @ 0.7 A<br>-5 V @ 0.2 A | +5 V @ 14 A (2 A min)<br>+3.3 V @ 10 A (1 A min)<br>+12 V @ 6 A (1 A min)<br>-12 V @ 0.8 A<br>-5 V @ 0.5 A<br>+5 Vsb @ 1.5 A |
| Power Module PN                   | -   | -   | -  |
| MTBF (hrs)                        | 100,000   | 84,000  | 84,000   |
| Dimension (H x W x D, mm)         | 40 x 100 x 205  | 40 x 100 x 190  | 40 x 100 x 190   |
| Safety                            | UL, TUV, CB, CCC  | UL, TUV, CB, CCC  | UL, TUV, CB, CCC   |
| Compatible with Advantech Chassis | 1757000160G: IPC-603MB, IPC-6806W<br>1757000229G: IPC-5120, IPC-7120  | IPC-6806  | IPC-6806S  |



| Model Names                       | 1757920011G  | 1757000170G  |
|-----------------------------------|--|--|
| Wattage                           | 200 W  | 150 W  |
| Input Range                       | 100 ~ 240 V <sub>AC</sub><br>63 ~ 47 Hz<br>4 ~ 2 A   | 115 ~ 230 V <sub>AC</sub><br>63 ~ 47 Hz<br>4 ~ 2 A   |
| Outputs                           | +5 V @ 16 A (2 A min)<br>+3.3 V @ 14 A (1 A min)<br>+12 V @ 9 A (1 A min)<br>-12 V @ 0.7 A<br>-5 V @ 0.2 A<br>+5 Vsb @ 1.5 A | +5 V @ 15 A (1 A min)<br>+3.3 V @ 17 A (0.5 A min)<br>+12 V @ 8 A (2 A min)<br>-12 V @ 0.8 A<br>+5 Vsb @ 2 A |
| Power Module PN                   | -  | -  |
| MTBF (hrs)                        | 84,000   | 100,000  |
| Dimension (H x W x D, mm)         | 40 x 100 x 190   | 63.5 x 100 x 125   |
| Safety                            | UL, TUV, CB, CCC   | UL, TUV, CB  |
| Compatible with Advantech Chassis | IPC-6806 by OEM inquiry  | IPC-644  |

18  
Industrial Motherboards

19  
Single Board Computers

20  
Industrial Computer Chassis

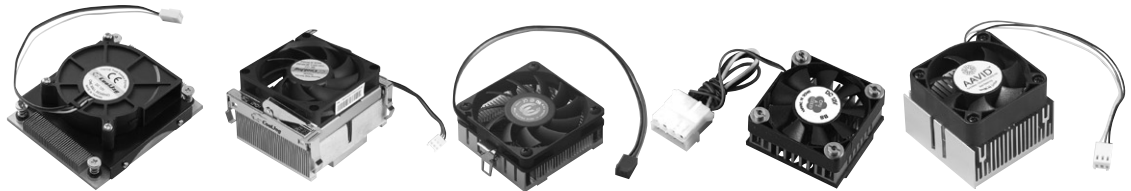
21  
High Performance Computing

22  
Industrial PC Peripherals

# CPU Coolers



| Model Names            | Special CPU Cooler                        |   | Pentium 4 LGA775                          |   | Pentium 4 Socket 478                             |
|------------------------|---|---|---|---|--|
|                        | 1750000400                                | 1750000282                                | 1750000332                                | 1750000334                                | 1750000242                                       |
| Minimum Chassis Height | 2U  | 2U  | 2U  | 4U  | 1U   |
| CPU Package            | Only for PCE-5120                         | Only for PCE-7210                         | Intel Pentium 4 LGA775                    | Intel Pentium 4 LGA775                    | Intel Pentium 4 Socket 478                       |
| CPU Speed              | up to 3.4 GHz<br>(90 nm, 110 W, L2: 1 MB) | up to 3.8 GHz<br>(90 nm, 115 W, L2: 1 MB) | up to 3.8 GHz<br>(90 nm, 115 W, L2: 1 MB) | up to 3.8 GHz<br>(90 nm, 115 W, L2: 1 MB) | up to 2.5 GHz<br>(0.13 micron, 61 W, L2: 512 KB) |
| Heat Sink Material     | Copper                                    | Copper                                    | Copper                                    | Aluminum fins & copper heart              | Copper   |
| Fan Speed              | 5,400 +- 10% RPM                          | 6,800 +- 10% RPM                          | 5,300 +- 10% RPM                          | 4,500 +- 10% RPM                          | 3,800 +- 10% RPM                                 |
| Weight                 | 672 g                                     | 624 g                                     | 560 g                                     | 550 g                                     | 335 g  |
| Dimension              | 89 x 74 x 51 mm                           | 82 x 58 x 65.5 mm                         | 80 x 80 x 55 mm                           | 110 x 110 x 67 mm                         | 88.5 x 62 x 29.9 mm                              |



| Model Names            | Pentium 4 Socket 478                             |  | Pentium III                  | Intel MMX        |                  |
|------------------------|--|--|------------------------------|------------------|------------------|
|                        | 1750000432                                       | 1750000257                               | 1759254100                   | 1759200100       | 1759212600       |
| Minimum Chassis Height | 1U   | 2U                                       | 1U                           | 1U               | 2U               |
| CPU Package            | Intel Pentium 4 Socket 478                       | Intel Pentium 4 Socket 478               | Intel Pentium III FC-PGA II  | Intel MMX        | Intel MMX        |
| CPU Speed              | up to 2.8 GHz<br>(0.13 micron, 70 W, L2: 512 KB) | up to 3.2 GHz<br>(90 nm, 89 W, L2: 1 MB) | up to 1.26 GHz<br>(Tualatin) | -                | -                |
| Heat Sink Material     | Copper   | Copper                                   | Aluminum                     | Aluminum         | Aluminum         |
| Fan Speed              | 4,800 +- 10% RPM                                 | 4,500 +- 10% RPM                         | 4,700 +- 10% RPM             | 5,000 +- 10% RPM | 5,000 +- 10% RPM |
| Weight                 | 478 g  | 565 g                                    | 101 g                        | 77 g             | 77 g             |
| Dimension              | 93 x 77 x 27 mm                                  | 83 x 69 x 55.5 mm                        | 59 x 57x 28 mm               | 52 x 52x 29 mm   | 52 x 52x 42 mm   |

# Keyboards

18  
Industrial Motherboards

19  
Single Board Computers

20  
Industrial Computer Chassis

21  
High Performance Computing

22  
Industrial PC Peripherals



**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
- 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
- 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 x 40 x 188 mm (15.7" x 1.6" x 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" x 1.14" x 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

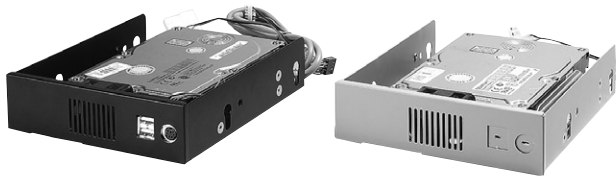
- 88-Key with membrane structure
- PC/AT, PS/2, DOSV compatible
- Built-in Touch-pad for pointing input device
- 5 million life cycles
- Spiral cable with PS/2 keyboard & mouse connector (not including PS/2 to PC/AT and PS/2 to DB-9 adapter)
- Dimensions (W x H x D): 289 x 27 x 227 mm (11.4" x 1.06"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

# Accessories

## 5.25 Industrial Disk Tray

### IDT-5101

Shockproof Industrial Hard Disk Drive Tray with Cooling Fan and Optional Front USB and PS/2 Interfaces



- Accepted HDD: 1 x 3.5"
- Cooling Fan: 1 x 7 CFM
- Material: Heavy duty steel plate with coating
- Color Codes: 414U (Gray), 4C2X (Black)
- Dimensions (W x H x D): 148.5 x 42.6 x 171 mm (5.85" x 1.68" x 6.73")
- Net Weight: 400 g (0.88 lb)
- P/N: IDT-5101, IDT-5101-BLK  
IDT-5121, IDT-5121-BLK with dual USB & PS/2

## Connectors and Cables



### P/N 170000719

USB cable with four ports, 30.5 cm

- The key is in pin #10

### P/N 1700002314

USB cable with four ports, 30.5cm

- For AIMB-764, 762, 760, 750, 744, 742, 562, 560, 556, 554, 542, PCA-6189, PCE-5120, PCE-7210
- The key is in pin #9



### P/N 1700100170

USB cable with dual ports, 17.5 cm

- The key is in pin #10

### P/N 1700003195

USB cable with dual ports, 17.5 cm

- For AIMB-764, 762, 760, 750, 744, 742, 562, 560, 556, 554, 542, PCA-6189, PCE-5120, PCE-7210
- The key is in pin #9



### P/N 1700100301

USB cable with dual ports, 30 cm

- The key is in pin #10

### P/N 1700002204

USB cable with dual ports, 27cm

- For AIMB-764, 762, 760, 750, 744, 742, 562, 560, 556, 554, 542, PCA-6189, PCE-5120, PCE-7210
- The key is in pin #9



### P/N 1700060202

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



### P/N 1700060201

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



### P/N 1700000259

15-pin to 9-pin D-sub VGA cable, 20 cm

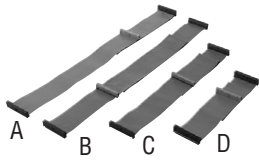


### P/N 1701260305

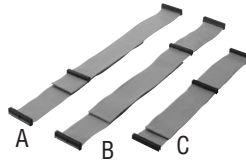
Serial and parallel ports with cables and bracket

# Accessories

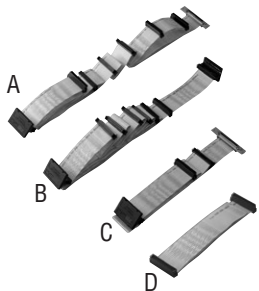
## Connectors and Cables



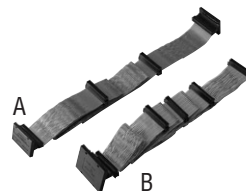
- A. P/N 1701400973**  
HDD cable, ATA 66/100, 62 cm + 35 cm
- B. P/N 1701400972**  
HDD cable, ATA 66/100, 82 cm + 15 cm
- C. P/N 1701400652**  
HDD cable, ATA 66/100, 45 cm + 20 cm
- D. P/N 1701400452**  
HDD cable, ATA 66/100, 45 cm



- 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 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 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



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



- P/N 1700003194**  
SATA Cable 7-pin, 180D w/lock, 60 cm



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



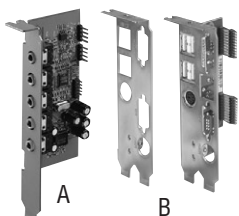
- P/N 1700000137**  
AV cable, 180 cm



- P/N 1700030500**  
ATX connector cable from CPU card to backplane



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



- 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



- IDT-3030**  
3.5" docking station with
  - Dual USB 2.0 ports
  - PS/2 port
  - 9-pin D-sub port and cables to motherboard or CPU card

18  
Industrial Motherboards

19  
Single Board Computers

20  
Industrial Computer Chassis

21  
High Performance Computing

22  
Industrial PC Peripherals