

# Industrial Workstations

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# Industrial Workstations Selection Guide

Product Series		AWS-8259	AWS-8248V	AWS-8129H	AWS-8124H
Brief Description		Modular Workstation	Modular Workstation	Workstation with 9 expansion slots	Mini Workstation
LCD Display	Diagonal	15"	15"	12.1"	12.1"
	Type	XGA TFT LCD	XGA TFT LCD	SVGA TFT LCD	SVGA TFT LCD
	Resolution	1024 x 768	1024 x 768	800 x 600	800 x 600
	Colors	262 K	262 K	262 K	262 K
	Viewing Angle (H°, V°)	120, 100	120, 100	140, 120	120, 90
	Luminance (cd/m <sup>2</sup> )	350	350	350	350
	Backlight Lifetime (hrs)	50,000	50,000	50,000	50,000
	Interface	VGA	VGA	VGA, LVDS	VGA
Other	Detachable display module	-	-	-	
OSD (Optional Display)		Yes	Yes	Yes	Yes
Backplane	Slot Number	9	14	9	4
	CPU, PCI, ISA, PCI/ISA	1, 0, 8, 0 (AWS-8259T) 1, 4, 4, 0 (AWS-8259TP)	0, 0, 14, 0 (AWS-8248VT) 1, 4, 9, 0 (AWS-8248VTP)	2, 4, 3, 0 (AWS-8129H1-X(R)AE)	1, 3, 0, 0 (AWS-8124H1) 1, 0, 3, 0 (AWS-8124H2)
Storage Device	FDD (Standard)	1	1	Slim Type x 1	1
	HDD Housing	3.5" x 1	3.5" x 2	3.5" x 1	3.5" x 1
	CD-ROM (Optional)	Slim Type x 1	5.25" x 1	Slim Type x 1	N/A
Key Pad	Data Entry Keys	39	39	60	-
	Function Keys	10	10	10	-
	Macro Function Keys	10	10	10	-
Touchscreen (Optional)		Analog Resistive	Analog Resistive	Analog Resistive	Analog Resistive
Power Supply (AC)		300 W	250 W	250 W	100 W
Front Panel Compliance		NEMA 4/IP65	NEMA 4/IP65	NEMA 4/IP65	NEMA 4/IP65
Operating Temperature		0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)	0 ~ 50° C (32 ~ 122° F)
Storage Temperature		-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)
Certifications		CE, FCC, BSMI, CCC	CE, FCC, BSMI, CCC	CE, FCC, BSMI, CCC	CE, FCC, BSMI, CCC
Dimensions (W x H x D)		482 x 356 x 229 mm (18.98" x 14" x 9")	482 x 356 x 465 mm (18.98" x 14" x 18.32")	482 x 266 x 317 mm (18.98" x 10.5" x 12.5")	344 x 260 x 159.8 mm (13.5" x 10.2" x 6.2")
Weight		22 kg	25.5 kg	17 kg	7 kg
CPU Card Suggestion		PCA-6186VE PCA-6186LV PCA-6003VE	PCA-6186VE PCA-6186LV PCA-6003H	PCA-6186 PCA-6187	PCI-6881 PCI-6872 PCA-6774
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## Selection Guide

ATM-4233	ATM-4008	ATM-4023	PWS-1409	PWS-1419
Industrial Automation Platform	Industrial Automation Platform	Industrial Automation Platform	Ruggedized Portable Workstation	
6"	6"	6.4"	14.1"	
VGA TFT LCD	VGA TFT LCD	VGA TFT LCD	VGA TFT LCD	
640 x 480	640 x 480	640 x 480	1024 x 768	
262 K	262 K	262 K	262 K	
120, 100	120, 100	55, 50	80, 45	100, 55
400	400	300	130	220
10,000	10,000	20,000	25,000	
VGA	VGA	VGA	VGA	
OSD control for Brightness adjustment & backlight	OSD control for Brightness adjustment & backlight	OSD control for Brightness adjustment & backlight	OSD control for Brightness adjustment & backlight	
Yes	Yes	Yes	-	
14	8	8	9	
1, 10, 2, 0 (ATM-4233N10)	1, 7, 0, 0 (ATM-4008R1)	1, 7, 0, 0 (front wire) (ATM-4023H8)	1, 0, 8, 0	
-	-	-	1, 4, 4, 0	
-	-	-	1	
3.5" x 1	3.5" x 1	3.5" x 2	3.5" x 1	
5.25" x 2	5.25" x 2	Slim Type x 1	Slim Type x 1	
-	-	-	-	
-	-	-	-	
-	-	-	-	
N/A	N/A	N/A	N/A	
250 W	250 W	250 W	200 W	
N/A	N/A	N/A	N/A	
0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	0 ~ 45° C (32 ~ 113° F)	-8 ~ 60° C (18 ~ 140° F)	
-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)	
CE, FCC, BSMI, CCC	CE, FCC, BSMI, CCC	CE, FCC, BSMI, CCC	CE, FCC, BSMI, CCC	
482 x 173 x 450 mm (18.98" x 6.8" x 17.7")	482 x 173 x 360 mm (18.98" x 6.8" x 14.2")	482 x 173 x 265 mm (18.98" x 6.8" x 10.4")	421 x 282 x 230 mm (16.6" x 11.1" x 9.1")	
18 kg	14 kg/16 kg	12 kg	9 kg	12 kg
PCA-6186VE PCA-6003VE PCA-6004VE	PCA-6108 PCA-6872 PCA-6881 PCA-6774	PCI-6872F PCI-6870F PCA-6774 PCA-6108 PCA-6751		
9-12	9-14	9-16	9-18	

1

PAC &amp; Software

2

BAS

3

UNO

4

RS-485 I/O

5

Ethernet I/O

6

TPC

7

IPPC

8

FPM

9

AWS

10

Plug-in I/O

11

CompactPCI

12

Signal Conditioning

13

USB I/O

14

Motion Control I/O

15

Ethernet Switch

16

EDG

17

ICOM

# AWS-8259

## Modular Workstation with 15" LCD and 9 Expansion Slots



### Features

- 9-slot, 15" TFT LCD workstation
- Resolution: 1024 x 768
- Two-piece design: integrated or separated LCD panel & control chassis
- Built-in touchpad, USB port and floppy drive on front panel
- Designed for simple maintenance with hinged rear door for easy access
- Vibration protection up to 1G
- IP65/NEMA 4, Aluminum front panel and stainless steel chassis

### Introduction

AWS-8259 is an industrial workstation with 9-slot expansion capability. Featuring a 15" detachable display module, the AWS-8259 has a rugged yet flexible design for factory floor applications. Its 15" high-brightness 1024 x 768 LCD fulfills the needs for large information viewing. In addition, the display module can be easily separated for maintenance.

With waterproof character keypads & touchpad features, an additional keyboard or mouse is not needed for operation. The standard 8U size can easily be installed in either racks or mounted in panels.

### Specifications

#### General

- **Button Controls**
  - Membrane Keypad 1 39 operating keys
  - Membrane Keypad 2 10 function keys
  - OSD 10 programmable macro function keys
  - Touchpad On front panel with backlight on/off switch
- **Certifications** BSMI, CE, CCC, and FCC class A
- **Connectors** 1 x front-accessible 6-pin PS/2 with dust-protection door for keyboard
- **Cooling System** 1 x 86 CFM fan
- **Dimensions (W x H x D)** 482 x 356 x 229 mm (18.98" x 14.0" x 9")
- **Enclosure** Aluminum
- **Disk Drive Bay** Supports one 3.5" FDD, one 3.5" HDD & one slim CD-ROM (HDD and CD-ROM optional)
- **LED Indicators** Power on/off and HDD activity
- **Mounting** 19" rack
- **Power Input**

Model Name	Watt	Input	Output	MTBF	Safety
PS-300ATX-ZB	300 W	90 ~ 264 V <sub>AC</sub> @ 47 ~ 63 Hz full range 6.0/3.0 A	+5 V @ 30 A +12 V @ 15 A +3.3 V @ 28 A -5 V @ 0.3 A -12 V @ 0.8 A +5 VSB @ 2 A	100,000 hrs	UL/cUL/TUV/ Nemko/FCC/CE EN61000-3-2 Class D/CB/CCC

- **Weight (Net/ Gross)** 18.5 kg (40.79lbs)/20 kg (44.09lbs)

#### Backplane Options

- **PCA-6109P4** 4 PCI, 4 ISA, 1 CPU slot backplane
- **PCA-6109** 9 ISA slot backplane

#### LCD Display

- **Backlight Life** 50,000 hours
- **Display Size** 15"
- **Display Type** XGA TFT LCD
- **Luminance** 350 cd/m<sup>2</sup>
- **Max. Colors** 262K
- **Max. Resolution** 1024 x 768
- **Viewing Angle (H/V°)** 120/100

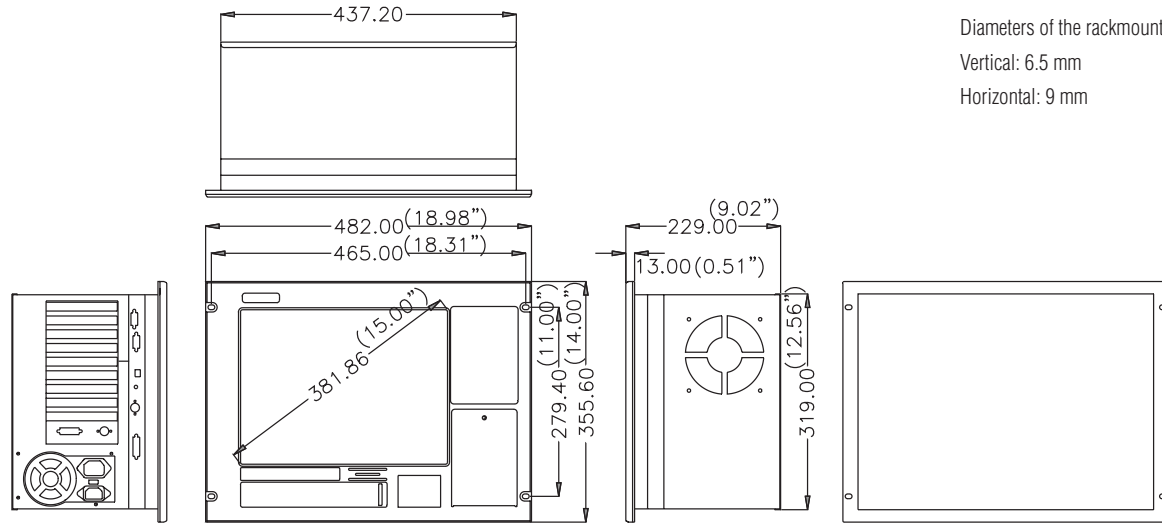
#### Touchscreen (Optional)

- **Interface** RS-232
- **Lifespan** 1 million touches at a single point
- **Light Transmission** 75 %
- **OS Support** MS-DOS, Windows 95/98/NT/2000/XP
- **Power Consumption** +5 V @ 200 mA
- **Resolution** 1024 x 1024
- **Type** 8-wire, analog resistive

#### Environment

- **Humidity** 5 ~ 85% RH @ 40° C, non-condensing
- **Humidity (Storage)** 5 ~ 95% non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C

**Dimensions**



Unit: mm

Diameters of the rackmount holes:

Vertical: 6.5 mm

Horizontal: 9 mm

**Cut-out dimensions (W x H): 449 x 336 mm**

**Ordering Information**

- **AWS-8259TP-XAE** 15" TFT, 4 ISA & 4 PCI & 1 CPU slots, 300 W 110/220 V<sub>AC</sub> power supply, 3.5" slim FDD
- **AWS-8259TP-RAE** AWS-8259TP with Resistive Touchscreen (RS-232 interface)
- **AWS-8259T-XAE** 15" TFT, 9 ISA slots, 300 W 110/220 V<sub>AC</sub> power supply, 3.5" slim FDD
- **AWS-8259T-RAE** AWS-8259T with Resistive Touchscreen (RS-232 interface)

**CPU Card Suggestions**

Part No	CPU Grade	Description
PCA-6186VE-00B1	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron processor card with VGA/LAN/HISA
PCA-6186LV-00B1	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron processor card with VGA/HISA
PCA-6003VE-00A1	Intel Pentium III (133 MHz FSB)	Socket 370 Pentium/Celeron processor card with VGA/LAN

**Back View**



**Side View**



1	PAC & Software
2	BAS
3	UNO
4	RS-485 I/O
5	Ethernet I/O
6	TPC
7	IPPC
8	FPM
9	AWS
10	Plug-in I/O
11	CompactPCI
12	Signal Conditioning
13	USB I/O
14	Motion Control I/O
15	Ethernet Switch
16	EDG
17	ICOM

# AWS-8248V

## Modular 15" TFT LCD Workstation with 14 Expansion Slots



### Features

- Cost-effective 14-slot, 15" TFT LCD workstation, and resolution of 1024 x 768
- Three card-cage design: easy to maintain add-on cards, CPU card and power supply
- Two 3.5" HDDs with mobile rack drive & CD-ROM drive in back of chassis
- Equipped with onscreen display (OSD) operation keypad on the front panel
- NEMA4/IP65, aluminum panel

### Introduction

The AWS-8248V is a 14-slot, 15" TFT LCD workstation. It improves on earlier models by offering more expansion capability, a larger LCD screen, and increased usability, all at an even more competitive price. The AWS-8248V also provides an additional major feature for users: easy maintenance. Using three card-cages and thumbscrew fasteners, the AWS-8248V makes maintenance quick and easy. The AWS-8248V combines multiple slots and 15" LCD in a more cost effective and easier to maintain design.

### Specifications

#### General

- **Button Controls**
  - Membrane Keypad 1 39 operating keys
  - Membrane Keypad 2 10 function keys
  - OSD 10 programmable macro function keys
  - Touchpad Reset and power on/off
- **Certifications** BSMI, CCC, CE, and FCC class A
- **Enclosure** Aluminum, meets NEMA4/IP65 standard
- **Disk Drive Housing** Supports one 3.5" FDD, two 3.5" HDD and one 5.25" CD-ROM (HDD and CD-ROM optional)
- **Cooling System**
  - 32 CFM fan for power supply
  - 36 CFM fan for plug-in cards
- **Connectors** 2 x 5-pin DIN connector for keyboard (front and rear)
- **Dimensions (W x H x D)** 482 x 356 x 465 mm (18.98" x 14.0" x 18.32")
- **LED Indicators** Power on/off, and HDD activity
- **Mounting** 19" rack, desktop
- **Power Input**

Model	Watt	Input	Output	MTBF	Safety
FSP250-60ATV-PF	250 W	95 ~ 132 V <sub>AC</sub> or 190 ~ 264 V <sub>AC</sub> (switchable)	+5 V @ 27 A +12 V @ 13 A +5 VSB @ 2 A -5 V @ 0.3 A -12 V @ 0.8 A +3.3 V @ 12 A	100,000 hrs	UL/CSA/TUV

- **Weight (Gross)** 25.5 kg (56 lb)

#### LCD Display

- **Backlight Life** 50,000 hrs
- **Display Type** 15" TFT LCD
- **Max. Resolution** 1024 x 768
- **Max. Colors** 262 K
- **Luminance** 350 cd/m<sup>2</sup>
- **Viewing Angle (H/V°)** 120/100
- **Interface** Direct VGA
- **Display Setting** OSD

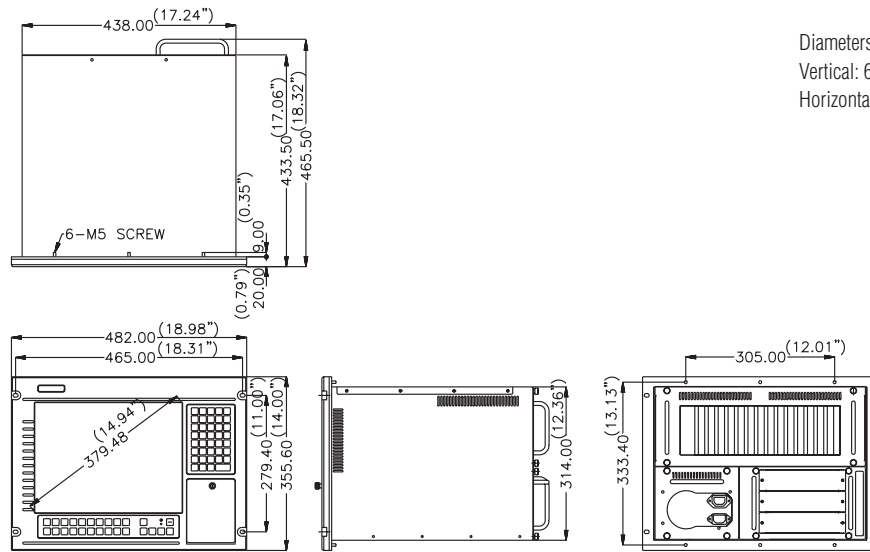
#### Touchscreen (Optional)

- **Interface** RS-232
- **Lifespan** 1 million touches at a single point
- **Light Transmission** 75 %
- **OS Support** MS-DOS, Windows 95/98/NT/2000/XP
- **Power Consumption** +5 V @ 200 mA
- **Resolution** 1024 x 1024
- **Type** 8-wire, analog resistive

#### Environment

- **Humidity (Storage)** 5 ~ 95% non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -40 ~ 60° C
- **Vibration (Operating)** 5 ~ 17 Hz, double-amplitude displacement  
17 ~ 500 Hz, 1.0 G peak to peak

## Dimensions



Cut-out dimensions: 450 x 326 mm (17.72" x 12.83")

## Ordering Information

- **AWS-8248VTP-XAE** 15" TFT LCD, 4 PCI, 9 ISA, 1 CPU slot, 250 W 110/220 V<sub>AC</sub> Power Supply, 3.5" FDD
- **AWS-8248VT-XAE** 15" TFT LCD, 14 ISA slots, 250 W 110/220 V<sub>AC</sub> Power Supply, 3.5" FDD
- **AWS-8248VTP-RAE** AWS-8248VTP with Resistive Touchscreen (RS-232 interface)
- **AWS-8248VT-RAE** AWS-8248VT with Resistive Touchscreen (RS-232 interface)

## Back View



## CPU Card Suggestions

Part No	CPU Grade	Description
PCA-6186VE-00A1	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron processor card with VGA/LAN/HISA
PCA-6186LV-00A1	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron processor card with VGA/HISA
PCA-6003H-00A1	Intel Pentium III (133 MHz FSB)	Socket 370 Pentium/Celeron processor card with VGA/LAN/HISA

## Feature Details

### Easy to Maintain

The AWS-8248V's "work drawer" designed card cage conveniently slides out for easy access. These three card-cages allow add-on cards, HDD/CD-ROMs and power supplies to be easily changed or added. It only takes a few minutes to service the unit, saving time and money while reducing downtime. The thumbscrew fasteners make access fast and easy, speeding maintenance procedures.

### Easy Access Control Panel

Users can easily access the AWS-8248V's controls from the front of the unit via a sturdy protective door. Controls include LEDs and switches for power and system reset, as well as an OSD in front. The front panel also holds a 3.5" 1.44 MB FDD. The aluminum door protects controls from the environment. The door has a waterproof foam-rubber seal and retaining hand screw to securely hold it closed. In addition, the door offers protection against accidental operation of the unit's controls.

### Ruggedized Design Meets Harsh Environment Needs

In addition, the AWS-8248V also features many powerful functions that meet or exceed industrial-grade requirements. The front panel is made of aluminum, which prevents the panel from being damaged by acid, salt and other elements. The unit is also waterproof and NEMA4/IP65 compliant. The AWS-8248V provides three mounting configurations to fit various applications: 19" rack mount, panel mounting and desktop.

- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPCC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

# AWS-8129H

Workstation w/12.1" LCD, 9 Expansion Slots & Touchpad w/Mouse Key

**NEW**



## Features

- 3 ISA, 4 PCI, 2 PICMG slot combined backplanes
- Case dimensions (W x H x D): 482 x 266 x 317 mm (18.98" x 10.5" x 12.5")
- Front accessible FDD, Power switch and CD-ROM
- Front accessible USB port
- OSD & Membrane Key & Touchpad with two mouse buttons
- NEMA4/IP65 compliant front panel
- Optional analog resistive touchscreen (USB Interface)
- RoHS Compliant

## Introduction

The AWS-8129H is a PC-based industrial workstation with an industrial grade 12.1" color TFT LCD display. The AWS-8129H is specifically designed for use within factories and other harsh industrial environments. This 19" frame can be rack or panel mounted. The AWS-8129H provides 3 ISA, 4 PCI, 2 PICMG slots, which offers great flexibility for application specific requirements.

## Specifications

### General

- **Button Controls**
  - Membrane Keypad 1 47 operating keys included 26 alpha characters
  - Membrane Keypad 2 10 function keys
  - 10 programmable macro function keys
  - Reset and power on/off
- OSD 6 OSD keys (Display On/Off, Brightness up, Brightness down, Menu Select, Exit)
- Touchpad Touchpad with two mouse buttons
- **Certifications** CE, FCC, BSMI, CCC compliant
- **Connectors** Front-accessible 6-pin PS/2 connector w/dust-protection door
- **Cooling System** 1 x 49 CFM fan on rear panel
- **Dimensions (W x H x D)** 482 x 266 x 317 mm (18.98" x 10.5" x 12.5")
- **Enclosure** Aluminum
- **Disk Drive Bay** Supports one slim FDD, one 3.5" HDD & one slim CD-ROM (HDD and CD-ROM optional)
- **LED Indicators** Power on/off and HDD activity
- **Mounting** 19" rack
- **Power Input Options**

Type	Watt	Input	Output	MTBF	Safety
AC (Standard)	250 W	90 ~ 132 V <sub>AC</sub> /10 A or 190 ~ 264 V <sub>AC</sub> /5 A (Switchable) 47 ~ 63 Hz	3.3 V @ 10 A 5 V @ 10.9 A 12 V @ 2.25 A -12 V @ 0.4 A -5 V @ 0.15 A +5 VSB @ 1 A	100,000 hrs	UL/CSA/ TUV/CCIB

- **Weight (Gross)** 17 kg (37.5 lb)

### LCD Display

- **Backlight Life** 50,000 hrs
- **Display Type** 12.1" TFT color LCD
- **Max. Resolution** 800 x 600
- **Max. Colors** 262 K
- **LCD Interface** VGA
- **Luminance** 350 cd/m<sup>2</sup>
- **Viewing Angle (H/V°)** 140/120

### Touchscreen (Optional)

- **Interface** USB
- **Lifespan** 10 million touches at a single point
- **Light Transmission** 88 %
- **OS Support** Windows 95/98/2000/XP
- **Power Consumption** +5 V @ 200 mA
- **Resolution** 1024 x 1024
- **Type** 8-wire, analog resistive

### Environment

- **Humidity** 5 ~ 85% RH @ 50° C, non-condensing
- **Humidity (Storage)** 5 ~ 95% RH, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature** -20 ~ 60° C

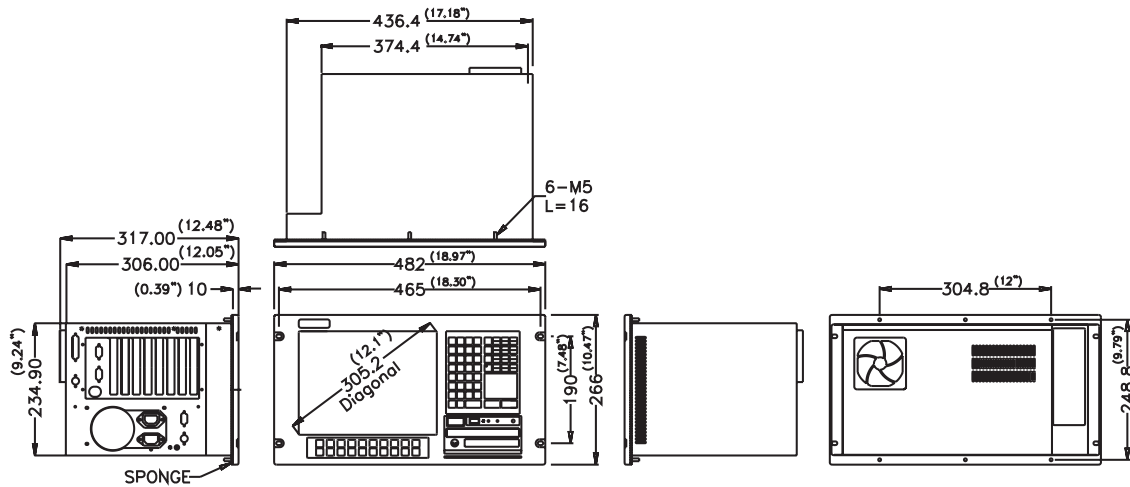
### Passive Backplanes

- **9693610900E** PCA-6109P4 (4 PCI, 3 ISA, 2 PICMG slot backplane)



**Dimensions**

Unit: mm



Cut out dimension: 440.4 mm x 238.9 mm (17.18" x 9.24")

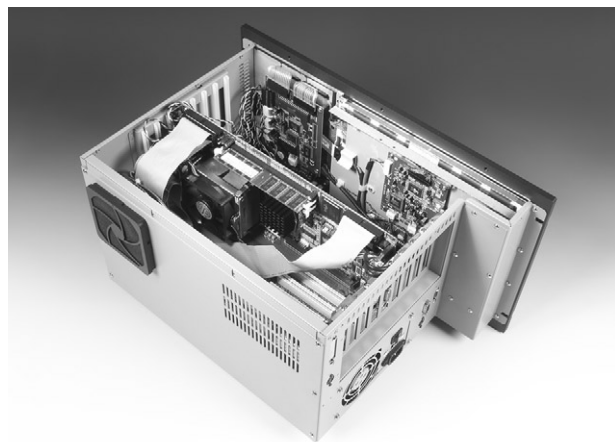
**Ordering Information**

- **AWS-8129H1-XAE** 12.1" TFT, 3 ISA & 4 PCI slots & 2 PICMG, 250 W 110/220 V<sub>AC</sub> Power Supply, 3.5" slim FDD
- **AWS-8129H1-RAE** AWS-8129H1-XAE with Resistive Touchscreen

**CPU Card Suggestions**

Part No	CPU Grade	Description
PCA-6186E2-00B2E	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron Processor card with VGA/Dual LAN/HISA, RoHS
PCA-6186VE-00B2E	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron Processor card with VGA/LAN/HISA, RoHS
PCA-6186LV-00B2E	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron Processor card with VGA/HISA, RoHS
PCA-6187VE-00B2E	Intel Pentium 4 (400/533 MHz FSB)	Socket 478 Pentium 4/Celeron Processor card with VGA/Single LAN/HISA, RoHS

**Top View**



1 PAC & Software

2 BAS

3 UNO

4 RS-485 I/O

5 Ethernet I/O

6 TPC

7 IPPC

8 FPM

9 AWS

10 Plug-in I/O

11 CompactPCI

12 Signal Conditioning

13 USB I/O

14 Motion Control I/O

15 Ethernet Switch

16 EDG

17 ICOM

# AWS-8124H

Mini Workstation with 12.1" LCD & 4 Expansion Slots



## Features

- 12.1" Color TFT LCD
- 4 Slot Backplane
- Compact Size
- NEMA4/IP65 compliant front panel
- Optional Resistive Touchscreen

## Introduction

The AWS-8124H PC-based mini workstation is a compact unit that meets the requirements of human-machine interfaces. Its half-sized, four slot backplane provides a space-saving and economical solution for industrial control. At only 6" in depth, this system can be used in the tight spaces around machinery. Equipped with an optional touchscreen, it can even be used as a controlling interface. Mounted in an airplane, vehicle or machine platform, this mini workstation is designed to fit where others can't.

## Specifications

### General

- **Certifications** CE, CCC, BSMI, and FCC
- **Cooling System** 1 x 32.8 CFM fan on side
- **Dimensions (W x H x D)** 344 x 260 x 159.8 mm (13.5" x 10.2" x 6.2")
- **Enclosure** Aluminum
- **Disk Drive Housing** Holds one 3.5" FDD and one 3.5" HDD (HDD optional)
- **Slots** 4 ISA slots (8124H2), 4 PCI slots (8124H1)
- **LCD Interface** 3.3 V TTL
- **Weight (Net/Gross)** 7 kg (15.43lbs)/9 kg(19.84lbs)
- **Power Input**

Model	Watt	Input	Output	MTBF	Safety
AC	100 W	AC 90-264 V @ 47-63 Hz, full range 2.0/1.0 A	+5 V @ 11.5 A +12 V @ 3.0 A -12 V @ 0.5 A	200,000 hrs	UL/CSA/CE/ FCC class B

### LCD Display

- **Backlight Life** 50,000 hrs
- **Display Size** 12.1"
- **Display Type** SVGA TFT LCD AWS-8124H1 (2)
- **Luminance** 350 cd/m2 AWS-8124H1 (2)
- **Max. Colors** 262K
- **Max. Resolution** 800 x 600 AWS-8124H1 (2)
- **Viewing Angle (H/V°)** 120/90

### Touchscreen (Optional)

- **Interface** USB
- **Lifespan** 1 million touches at a single point
- **Light Transmission** 72%
- **Type** Analog resistive, continuous resolution
- **OS Support** Windows® 98/2000/XP
- **Power Consumption** +5 V @ 200 mA
- **Resolution** 1024 x 1024
- **Type** 8-wire, analog resistive

### Environment

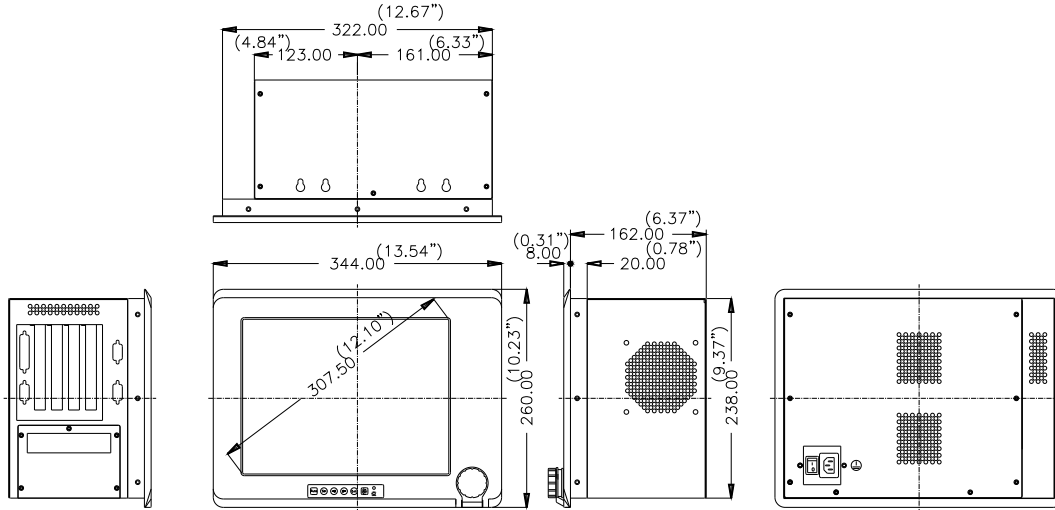
- **Humidity** 5 - 95% RH @ 40° C (non-condensing)
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 - 50° C (32 - 122° F)
- **Storage Temperature** -20 - 60° C
- **Vibration (Operating)** 5 - 500 Hz, 0.5 Grms (random)

## Ordering Information

- **AWS-8124H1-XAE** 12.1" TFT LCD, 4 PCI slot Backplane, 3.5" FDD, 100 W AC Power Supply
- **AWS-8124H1-RAE** AWS-8124H1-XA1E with Resistive touchscreen
- **AWS-8124H2-XAE** 12.1" TFT LCD, 4 ISA slot Backplane, 3.5" FDD, 100 W AC Power Supply
- **AWS-8124H2-RAE** AWS-8124H2-XA1E with Resistive Touchscreen

**Dimensions**

Unit: mm



Cut out dimension 322 x 238 mm (12.67" x 9.37")

**CPU Card Suggestions**

Part No	CPU Grade	Description
PCI-6881F-S0A2E	1.1 GHz Pentium M	PCI FCPGA2 478 Slot PC, Pentium M 1.1GHz on Board w/LAN/VGA/LVDS/CFC
PCI-6872F-00A1E	1.26 GHz Pentium III	PCI Socket 370 half-sized CPU Card with VGA/LCD/LVDS/LAN/CFC
PCA-6774F-00A1E	1.26 GHz Pentium III	ISA Socket 370 Slot CPU Card with VGA/LCD/LAN/CFC

- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7 IPPC
- 8 FPM
- 9 AWS
- 10 Plug-in I/O
- 11 CompactPCI
- 12 Signal Conditioning
- 13 USB I/O
- 14 Motion Control I/O
- 15 Ethernet Switch
- 16 EDG
- 17 ICOM

# ATM-4233

## 4U 14-slot Industrial Automation Platform with 6" LCD



### Features

- 4U height 19" rackmount platform with 6" TFT LCD display
- Integrated Video A/D Board ensures CPU compatibility up to Intel® Pentium® 4
- 14-slot expansion passive backplane
- Front accessible disk drive bays for easy installation of two vibration damped 5.25" drives, and one 3.5" drive
- OSD control for brightness adjustment
- Applicable for industrial automation control and monitoring
- Suitable for automated test & measurement equipment and production line quality control
- High brightness color TFT LCD panel: 400 nits
- VGA resolution: 640 x 480
- Front accessible USB ports x 2, power on/off and reset button
- Telecom/power station platform for test & measurement equipment

### Introduction

In response to customer requests, and to increase overall product performance and competitiveness in the current IPC market, ATM-4233 is a new product based on the popular ACP-4001. ATM-4233 has been equipped with a high brightness 6" color TFT LCD panel, an integrated video A/D board with VGA input, a new passive backplane (2 options), and is compatible with CPU cards up to Intel Pentium 4.

### Specifications

#### General

- **Button Controls**
  - Behind Lockable Door: Power on/off  
Reset button
  - Front: OSD: (On/Off, Menu, Select, Auto, Right, Left)  
10 configurable membrane buttons
  - Keyboard Drawer: QWERTY keyboard with mouse touchpad
- **Certifications**  
BSMI, CE, CCC, and FCC class A
- **Connectors**
  - Front: 2 x USB
  - Rear: 1 x 6-pin PS/2 keyboard port for external connection
- **Cooling System**  
2 x 90 mm easy-to-replace 115.84 CFM cooling fans
- **Dimensions (W x H x D)** 482 x 173 x 450 mm (18.98" x 6.8" x 17.7") (4U)
- **Disk Drive Bay**  
Vibration damped, front-accessed 5.25" x 2 and 3.5" x 1 bays.
- **Enclosure**  
Prepainted galvanized steel. Front door with lock. A replaceable air filter is located behind the door. Color: Pantone 4C 2X black
- **LED Indicators**  
1 x system power, 1 x HDD data access
- **Mounting**  
19" rack (4U)
- **Power Input**  
115/230 V<sub>AC</sub> or 220 V<sub>AC</sub>, 60/50 Hz, 10/5 A
- **Weight (Net/Gross)**  
18.5 kg (40.79lbs)/20 kg (44.09lbs)

#### Backplane Options

- **PCA-6114P10-B** 2 ISA/10 PCI/2 PCIMG

#### LCD Display

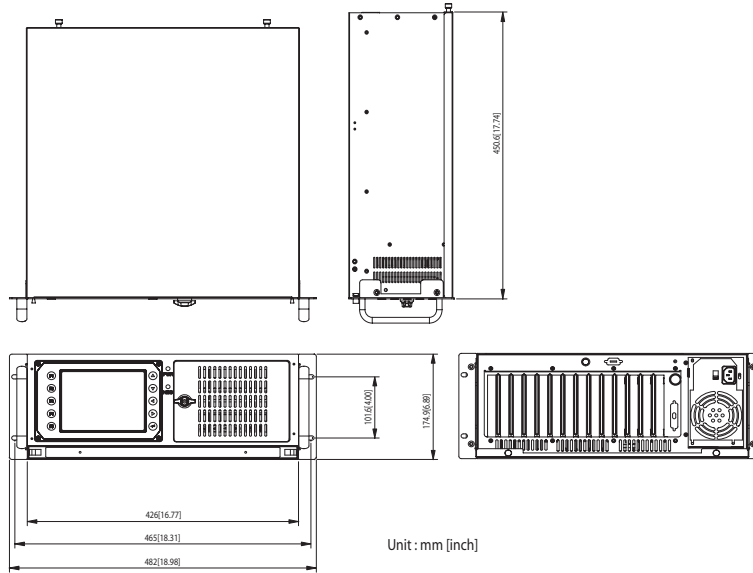
- **Backlight Life** 20,000 hours
- **Display Size** 6"
- **Display Type** VGA TFT LCD
- **Luminance** 400 cd/m<sup>2</sup>
- **Max. Resolution** 640 x 480
- **Max. Colors** 262 K
- **OSD Control** Front panel
- **Viewing Angle (H/V°)** 120/100

#### Environment

- **Humidity** 10 ~ 95% RH @ 40° C, non-condensing
- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F),
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Vibration (Operating)** 5 ~ 500 Hz, 1 grms (Random)
- **Vibration (Storage)** 5 ~ 500 Hz, 2.16 grms (Random)

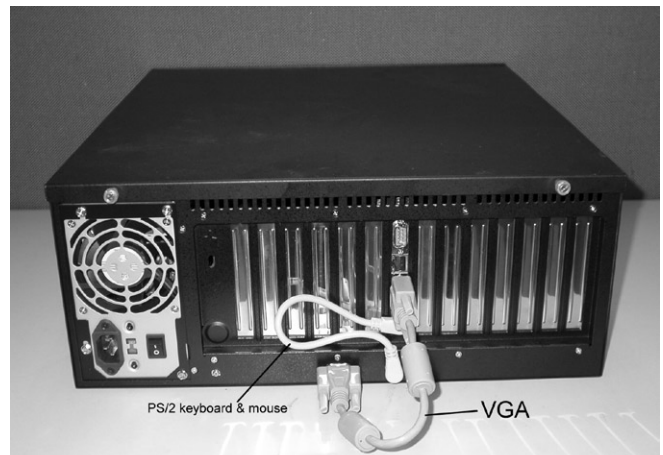
**Dimensions**

Unit: mm



**Ordering Information**

- **ATM-4233N10-25Z** 14-slot (2 ISA/10 PCI/2 PCIMG) Industrial Automation Platform with 6" LCD/4U/Standard Size/Rear Wiring/PCA-6114P10-B/250W Power Supply



1	PAC & Software
2	BAS
3	UNO
4	RS-485 I/O
5	Ethernet I/O
6	TPC
7	IPPC
8	FPM
9	AWS
10	Plug-in I/O
11	CompactPCI
12	Signal Conditioning
13	USB I/O
14	Motion Control I/O
15	Ethernet Switch
16	EDG
17	ICOM

# ATM-4008

## 4U 8-slot Industrial Automation Platform with 6" LCD



### Features

- 4U height 19" rackmount chassis with 6" TFT LCD display
- Integrated Video A/D Board ensures CPU compatibility (to Intel® Pentium® 4)
- 8-slot expansion passive backplane
- Front accessible disk drive bays for installation of 3 vibration damped drives
- OSD control for brightness adjustment
- Applicable for industrial automation control and monitoring
- Suitable for Automatic Testing Equipment and Production Line Testing
- High brightness color TFT LCD panel: 400 nits
- VGA resolution: 640 x 480
- Front accessible USB ports x 2, Power on/off and reset button
- Telecom/power station platform for test & measurement equipment

### Introduction

ATM-4008 is a 4U 8-slot rackmount industrial workstation with a 6" LCD display, and a built-in slim type keyboard and touchpad. ATM-4008 is a half-size chassis based on the ATM-4233. The compact design caters for use in limited spaces such as test and measurement stations and machinery.

### Specifications

#### General

- **Button Controls**
  - Behind Lockable Door: Power on/off  
Reset button
  - Front: OSD: (On/Off, Menu, Select, Auto, Right, Left)  
10 configurable membrane buttons
  - Keyboard Drawer: QWERTY keyboard with mouse touchpad
- **Certifications**  
BSMI, CE, CCC, and FCC class A
- **Connectors**
  - Front: 2 x USB
  - Rear: 1 x 6-pin PS/2 keyboard port for external connection
- **Cooling System**  
2 x 90 mm easy-to-replace 115.84 CFM cooling fans
- **Dimension (W x H x D)**  
482 x 173 x 360 mm (18.98" x 6.8" x 14.2") (4U)
- **Disk Drive Bay**  
3 x vibration damped, front-accessed 5.25" x 2 and 3.5" x 1 bays
- **Enclosure**  
Prepainted galvanized steel. Front door with lock.  
A replaceable air filter is located behind the door.  
Color: Pantone 4C 2X black
- **LED Indicators**  
1 x system power, 1 x HDD data access
- **Mounting**  
19" rack (4U)
- **Power Input**  
115/230 V<sub>AC</sub> or 220 V<sub>AC</sub>, 60/50 Hz, 10/5 A
- **Weight (Net/Gross)**  
14 kg (30.87 lbs)/16 kg ( 35.28 lbs)

#### Backplane Options

- **PCA-6108P8-0A1** 8 PCI
- **PCA-6108E-0C1** 8 ISA

#### LCD Display

- **Backlight MTBF (hrs)** 20,000 hours
- **Display Size** 6"
- **Display Type** VGA TFT LCD
- **Luminance** 400 cd/m<sup>2</sup>
- **Max. Colors** 262 K
- **Max. Resolution** 640 x 480
- **OSD Control** Front panel
- **Viewing Angle (H/V°)** 120/100

#### Environment

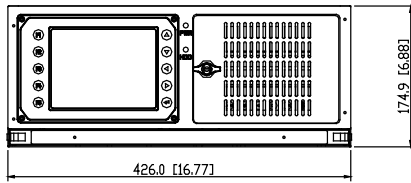
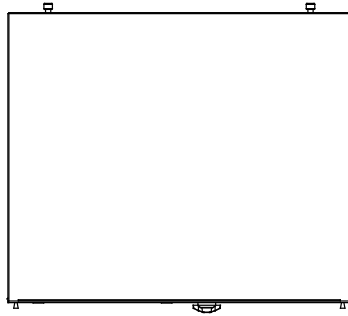
- **Humidity** 10 ~ 95% RH @ 40° C, non-condensing
- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Vibration (Operating)** 5 ~ 500 Hz, 1 Grms (Random)
- **Vibration (Storage)** 5 ~ 500 Hz, 2.16 Grms (Random)

### Ordering Information

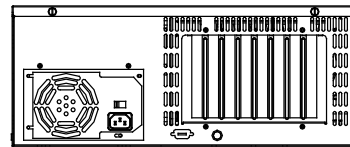
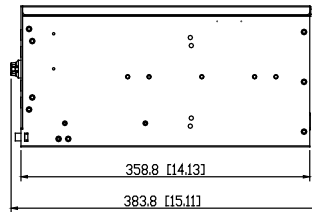
- **ATM-4008R1-X** 8 PCI slot Industrial Automation Platform with 6" LCD/4U/Half size/Rear Wiring/PCA-6108P8-0A1/250 W Power Supply

**Dimensions**

Unit: mm



UNIT : mm [inch]



1

PAC & Software

2

BAS

3

UNO

4

RS-485 I/O

5

Ethernet I/O

6

TPC

7

IPPC

8

FPM

9

AWS

10

Plug-in I/O

11

CompactPCI

12

Signal Conditioning

13

USB I/O

14

Motion Control I/O

15

Ethernet Switch

16

EDG

17

ICOM

# ATM-4023

## 8-slot Industrial Automation Platform with 6.4" LCD/4U, Front-access & Wiring



### Features

- Compact all-in-one solution for automated test stations
- 4U height 19" rackmount platform with 6.4" TFT LCD display
- High-brightness color TFT LCD panel: 300 nits
- Quiet operation
- Integrated with video A/D board with VGA input
- 8-slot expansion passive backplane for half-sized cards (8 PCI or 8 ISA)
- Front accessible, easy maintenance CD-ROM Drawer (Optional)
- Front accessible USB, PS/2 Keyboard and Mouse I/O interface for easy plug-in
- OSD menu control for brightness adjustment

### Introduction

ATM-4023 features a revolutionary design that is ideal for automatic test stations. At only 4U, the ATM-4023 has 8 front-accessible slots, a 6.4" high-brightness TFT color LCD display, 5 function keys, 5 cursor keys, and an optional slim type CD-ROM drawer. Various mounting kits, including a rackmounting and desktop kit are designed to fit different applications. ATM-4023 is designed to be an automatic testing platform for test and measurement equipment, but can also be suitable in transportation control stations, and industrial control. The front-accessible I/O design makes production test line changes quick, also ensures easy maintenance.

### Specifications

#### General

- **Button Controls** Front-accessible OSD control, reset and power switch  
5 function keys, 5 cursor keys
- **Certifications** BSMI, CCC, CE, and FCC class A
- **Connectors** 2 x front-accessible PS/2 for keyboard and mouse  
2 x front-accessible USB ports
- **Cooling System** 61.8 CFM (2 x 30.9 cooling fans) w/easy maintenance
- **Dimensions (W x H x D)** 482 x 173 x 265 mm (18.98" x 6.8" x 10.4") (4U)
- **Disk Drive Bay** 2 x 3.5"  
1 x slim type CD-ROM drawer (optional)
- **Enclosure** Prepainted galvanized steel
- **LED Indicators** 1 x power, 1 x HDD
- **Mounting** 19" rack, desktop
- **Power Input**

Model Name	Watt	Input	Output	Mini-load	Safety
P1A-6250P	250 W	100/240 V <sub>AC</sub> 6-3A 50/60 Hz	+5 V @ 24 A +3.3 V @ 20 A +12 V @ 12 A -12 V @ 1 A -5 V @ 0.5 A +5 Vsb @ 1.5 A	+5 V @ 3 A +12 V @ 2 A +3.3 V @ 1 A	UL 1950, CSA 22.2 NO/950, TUV IEC 950 FCC class B, CISPR22 CLASS B

- **Weight (Gross)** 12 kg (26.4 lb)

#### CPU Card Selection

- **PCI-6872F-00A1** PCI Socket 370 Slot PC, VGA/LCD/LVDS/LAN/CFC
- **PCI-6870F-00A2** PCI Socket 370 815E Slot PC VGA/82562/Audio/CFC2
- **PCA-6774-00A1** ISA Socket 370 Slot PC with VGA/LCD/LAN/CFC

#### LCD Display

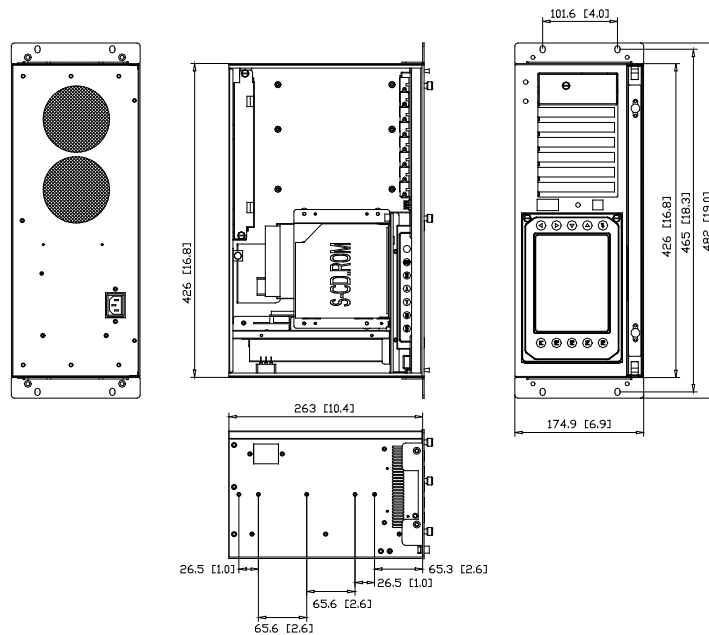
- **Backlight Life** 20,000 hours
- **Display Size** 6.4"
- **Display Type** VGA TFT LCD
- **Luminance** 300 cd/m<sup>2</sup>
- **Max. Colors** 262 K
- **Max. Resolution** 640 x 480
- **OSD Control** Front panel
- **Viewing Angle (H/V°)** 55/50

#### Environment

- **Humidity** 10 ~ 95 % RH @ 40° C, non-condensing
- **Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- **Storage Temperature** -20 ~ 60° C (-4 ~ 140° F)
- **Vibration (Operating)** 1 Grms (5 ~ 500 Hz) (random)
- **Vibration (Storage)** 2 G (5 ~ 500 Hz) (sine)
- **Vibration (Package)** 2.16 Grms (5 ~ 500 Hz) (random)
- **Acoustic Noise** Less than 52 dB @ 5 ~ 28° C (41 ~ 82° F)



## Dimensions



Unit: mm

## Ordering Information

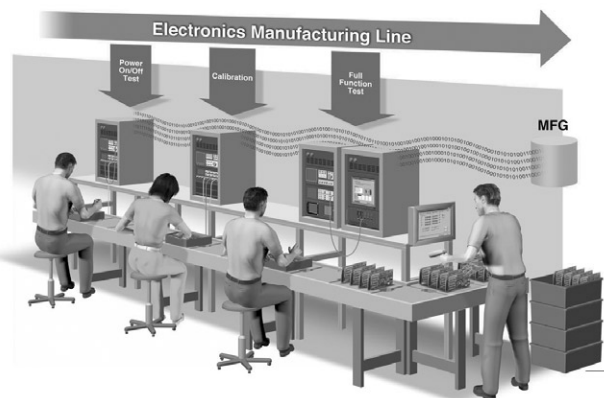
- **ATM-4023H8-25Z** 8 PCI slot Industrial Automation Platform with 6.4" LCD/4U/Half Size/Front Wiring/PCA-6108P8 (rev.A1) 250 W

## Accessories

- **9663402304** Slim-type CD-ROM kit with 40-pin IDE connector
- **9684000014** 3.5" FDD with black bezel

## Applications

ATM-4023 saves space and offers unparalleled convenience with its all-in-one solution for automated test stations. With front-accessible PCI and ISA slots, connections to test-station fixtures are convenient and can quickly be changed when the production line changes.



The 6.4" LCD screen offers enough space to display visual feedback to the operator for test results, and the front-accessible PS/2 port makes it easy to connect a mouse or keyboard so the operator can respond to test results. The front-accessible USB ports can be used for barcode scanners that identify the serial number of the product being tested, or other peripherals.

By connecting the test stations in an Ethernet network, the test results from several test stations can be stored on a central server for analysis by quality engineers.

1	PAC & Software
2	BAS
3	UNO
4	RS-485 I/O
5	Ethernet I/O
6	TPC
7	IPPC
8	FPM
9	AWS
10	Plug-in I/O
11	CompactPCI
12	Signal Conditioning
13	USB I/O
14	Motion Control I/O
15	Ethernet Switch
16	EDG
17	ICOM

# PWS-1409

# PWS-1419

## 9-slot 14.1" TFT LCD Portable Workstation

## 9-slot 14.1" TFT LCD Ruggedized Portable Workstation



### Features

- 9-slot ISA/PCI backplane platform
- Full size mechanical key-switch keyboard with touchpad
- Built-in amplified stereo speakers
- 14.1" TFT LCD w/1024 x 768 resolution
- Add-on Card Retention bar
- Built-in Standard PC I/O Ports
- CE, FCC, CCC, BSMI compliant
- Carrying case for easy travel

### For PWS-1419T/TP only

- Impact-resistance protective glass for LCD
- Complete aluminum enclosure

## Introduction

### PWS-1419T/TP Ruggedized Portable Workstation

The PWS-1419 complies with stringent industrial standards. Built with an all aluminum enclosure that has a hard anodized surface, the PWS-1419T/TP has been thoroughly tested and certified to withstand the most demanding environments. The PWS-1419 is dustproof, moisture resistant, shock/drop proof, and heat/cold resistant. Built-in sound and standard PC I/O ports are provided along with a 14.1" TFT LCD with 1024 x 768 resolution.

Its compact size makes it an ideal solution for field operations and it is extremely mobile with the ability to be carried on to a plane or easily fitted into a vehicle. It is ruggedly built and expandable, while meeting MIL-STD-810E military standards and industrial requirements.

### PWS-1409T/TP Portable Workstation

The PWS-1409T/TP is a light version of PWS-1419 Portable Workstation, making it also ideal for rugged field and mobile applications. The product is built on an aluminum chassis surrounded by a highly durable ABS plastic shell. It offers a cost effective solution for applications such as portable servers, network/communications testing, field data acquisition, remote field service, factory monitoring automation, etc.

## Specifications

### General

- **Backplane** TP version-1 CPU, 4 ISA, 4 PCI  
T version-1 CPU, 8 ISA
- **Chassis** PWS-1419 - complete aluminum  
PWS-1409 - aluminum chassis w/ABS plastic shell
- **Dimensions (W x H x D)** PWS-1419: 421 x 282 x 230 mm (16.6" x 11.1" x 9.1")  
PWS-1409: 400 x 320 x 200 mm (15.7" x 13.2" x 10.4")
- **Keyboard** Full size mechanical key-switch, detachable
- **Power Supply** AC 110/220 V auto switch
- **Storage Device** FDD built-in, plus 1 hard disk bay and 1 slim type CD-ROM bay

### Environment

- **Humidity** PWS-1419 5 ~ 95 % RH, non-condensing  
PWS-1409 10 ~ 90 % RH, non-condensing
- **Operating Temperature** -8 ~ 60° C
- **Storage Temperature** -20 ~ 60° C
- **Weight** PWS-1419: 12 kg (26.4 lb)  
PWS-1409: 9 kg (19.8 lb)

### LCD Display

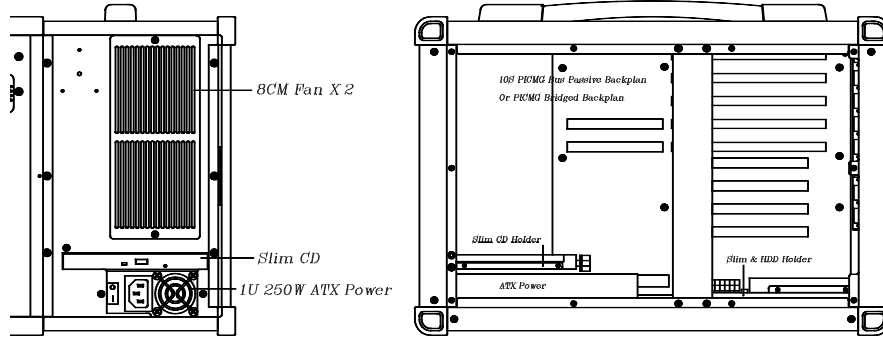
Model	PWS-1409	PWS-1419
<b>Display Type</b>	14"1 Active Matrix TFT	14"1 Active Matrix TFT
<b>Max. Resolution</b>	1024 x 768	1024 x 768
<b>Max. Colors</b>	262 K	262 K
<b>Viewing Angle</b>	H: left side 40°, right side 40° V: up side 15°, down side 30°	H: left side 50°, right side 50° V: up side 20°, down side 35°
<b>Luminance</b>	130 cd/m <sup>2</sup>	130 cd/m <sup>2</sup>
<b>Backlight Lifetime</b>	25,000 hrs	25,000 hrs

## Ordering Information

- **PWS-1419T** 14.1" LCD, Aluminum Chassis, 8ISA/1CPU, Slim Type FDD
- **PWS-1419TP** 14.1" LCD, Aluminum Chassis, 4ISA/4PCI/1CPU, Slim Type FDD
- **PWS-1409T** 14.1" LCD, Aluminum Chassis w/ABS Plastic Shell, 8ISA/1CPU, Standard Type FDD
- **PWS-1409TP** 14.1" LCD Aluminum Chassis w/ABS Plastic Shell, 4 ISA/4 PCI/1 CPU, Standard Type FDD

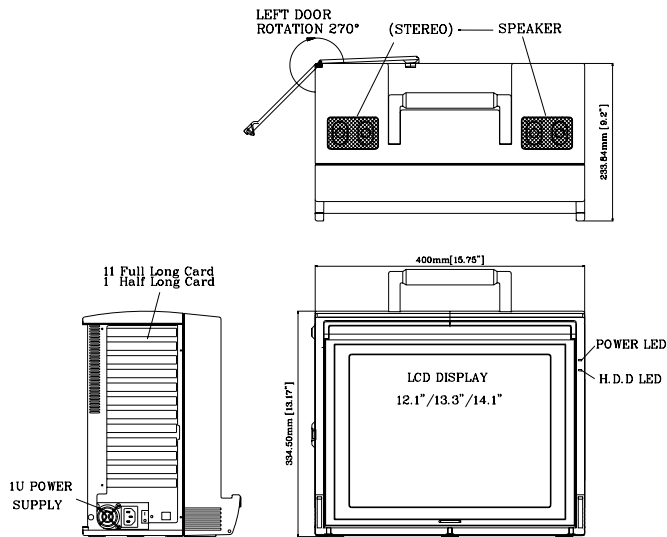
**Dimensions**

Unit: mm



**Dimensions**

Unit: mm



**Front View**

**PWS-1409**



**PWS-1419**



- 1 PAC & Software
- 2 BAS
- 3 UNO
- 4 RS-485 I/O
- 5 Ethernet I/O
- 6 TPC
- 7
- 8 IPPC
- 9 FPM
- 10 AWS
- 11 Plug-in I/O
- 12 CompactPCI
- 13 Signal Conditioning
- 14 USB I/O
- 15 Motion Control I/O
- 16 Ethernet Switch
- 17 EDG
- ICOM

# Accessories



**1757930070**  
300W AC-DC ATX Power Supply  
with PFC



**1700260200**  
AWS- 8259 Signal Cable 26-pin to  
26-pin 20 cm

**1700262500**  
AWS- 8259 Signal Cable 26-pin to  
26-pin 250 cm



**1700150201**  
VGA Cable 15-pin to 15-pin 20 cm

**1700150501**  
VGA Cable 15-pin to 15-pin 50 cm

**1700151801**  
VGA Cable 15-pin to 15-pin 180 cm



**1700060206**  
PS/2 Cable 6-pin to 6-pin 20 cm

**1700061801**  
PS/2 Cable 6-pin to 6-pin 180 cm



**1701400972**  
HDD Cable, ATA 66/100,  
82 cm + 15 cm

**1701400652**  
HDD Cable, ATA 66/100,  
45 cm + 20 cm

**1701400452**  
HDD Cable, ATA 66/100,  
30 cm + 15 cm



**1700340640**  
FDD Cable for tw 3.5" FDD 64 cm



**1750000078**  
CPU cooler for Pentium 4 up to  
3.06 GHz



**1759254100**  
CPU cooler for Pentium III up to  
1.26 GHz

# Excellence in PC-based Measurement and Control

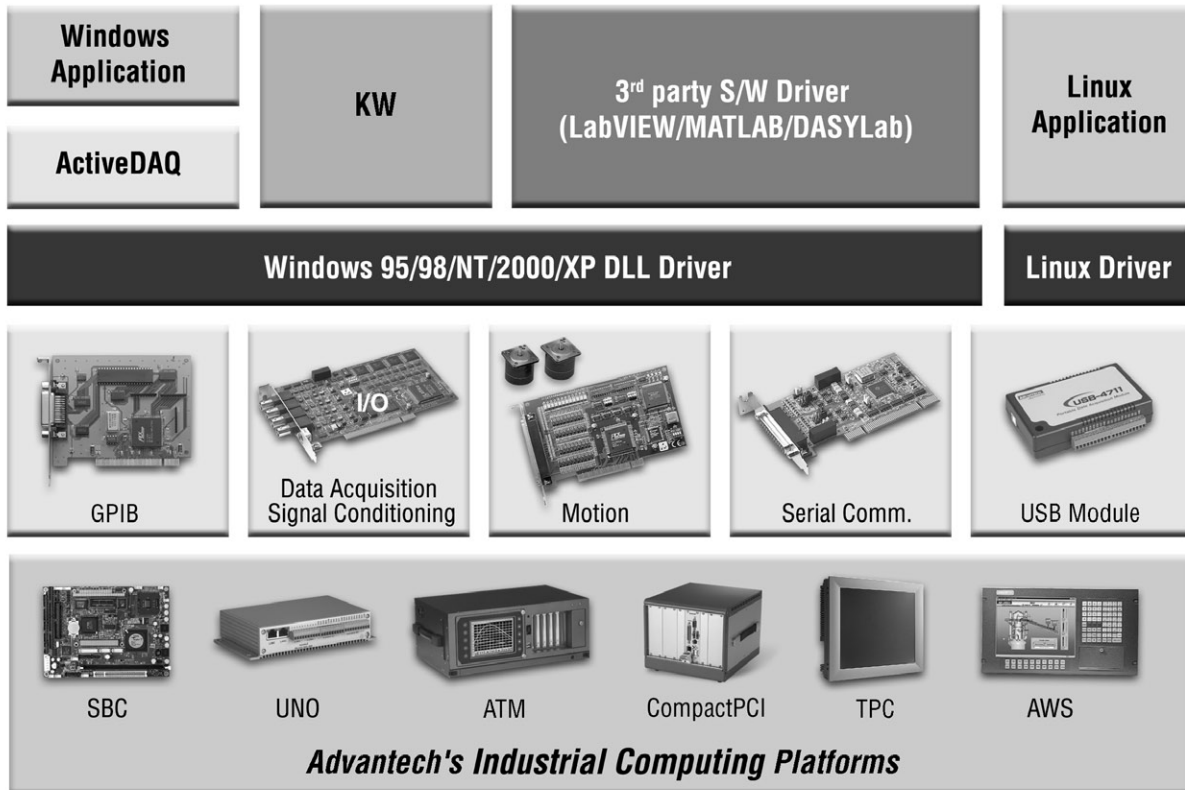
Advantech is excited to be your partner in innovation. We specialize in using industrial-grade computers, the internet, and other cutting edge technologies to help you achieve your goals - faster, better, and well under budget.

For more than 20 years, Advantech has developed for various form factors such as ISA, PCI, PC/104, USB, and CompactPCI. The result is a solid range of plug-in I/O, signal conditioning and multi-port serial communication products to help engineers and scientists build, test, measure and control solutions. Advantech delivers a fully integrated set of software and hardware tools for building measurement and control applications. From application software to hardware devices that interface with real-world signals, this framework gives engineers and scientists improved productivity when defining measurement and control systems. In addition to providing tight integration with Advantech hardware, the measurement software framework delivers essential interoperability with the widest set of third-party software support in the industry. With these PC-based measurement and automation products, engineers may use intuitive, powerful off-the-shelf application software, and flexible modular hardware to build customer-defined solutions. It makes the application development easier and more productive.

## Extensive Software Support

For Windows programmers, Advantech not only offers Windows DLL drivers, but also supports ActiveX technology via our ActiveDAQ product to speed up the application development. Direct drivers for popular software packages such as LabView, MatLab and DASyLab are also supported. In addition, user-friendly KW software can help complete log-control application development very easily. For Linux programmers we also offer Linux drivers to develop their applications.

## Framework of PC-based Measurement & Control



## Versatile Hardware Platforms

Advantech offers a full range of measurement and control hardware, from high accuracy and quality plug-in data acquisition boards, to motion control, to serial and Fieldbus communication. With the addition of Advantech signal conditioning hardware, you can also build systems for measuring low and high voltages, current, strain, temperature, frequency, and more. Advantech offers products for the following measurement platforms:

- Universal PCI for Desktop PC's and Server Platforms - Transform your desktop PC into a custom measurement solution with high performance PCI plug-in devices and signal conditioning.
- PC/104 for Embedded PC's - For an embedded application, you may adopt an embedded PC with PC/104 measurement devices.
- CompactPCI Real-Time System - Combine embedded controller, data acquisition devices, motion and vision, and hot swap capability for embedded and real-time applications.
- ISA for Industrial Applications - ISA-bus products offer an easy-to-use and cost-effective measurement and control solution to the users.
- Signal Conditioning Modules-With signal conditioning modules, you can measure sensor output raw signals, generate voltages & currents, or route signals with switching into a single integrated system.
- USB for Notebook PC's- For a portable application, you can easily plug and play USB-based measurement devices with USB module into any portable computers, such as Notebook PC's.

With abundant resources of hardware modules and software support, Advantech provides high-speed, high quality yet cost-saving products for industrial requirements. Moreover, bundled with versatile industrial PC chassis, backplanes, CPU modules and flat panel monitors, Advantech offers a one-stop-shop solution to serve all your needs.



PCI for Desktop PC's



PC/104 for Embedded Applications



CompactPCI Real-time System



ISA for Industrial Applications



USB for Portable Applications