

# AWS-8420

Workstation with 12.1" LCD & 8 Expansion Slots



## Features

- 8 ISA, 8 PCI or 4 ISA, 4 PCI, 1 CPU slot combined backplanes
- Case dimensions (WxLxH): 77.5 x 179.5 x 41.5 mm (3.1" x 7.1" x 1.6")
- Front accessible FDD, Power switch and CD-ROM
- NEMA4/IP65 compliant front panel
- Optional analog resistive touchscreen

## Introduction

The AWS-8420 is a PC-based industrial workstation with an industrial grade 12.1" color TFT LCD display. The AWS-8420 is specifically designed for use within factories and other harsh industrial environments. This 19" frame can be rack mounted or panel mounted. The AWS-8420 provides 8 PCI/ISA slots, which offers great flexibility for application-specific requirements.

## Specifications

### General

- **Button Controls**
  - Membrane Keypad 1 60 operating keys
  - Membrane Keypad 2 10 function keys
  - 10 programmable macro function keys
  - Reset and power on/off
- OSD On front panel with backlight on/off switch
- **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 (WxHxD)** 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 ~ 135 V <sub>AC</sub> or 180 ~ 265 V <sub>AC</sub> (switchable)	+5 V @ 25 A +12 V @ 8 A +5 VSB @ 1 A -5 V @ 0.5 A -12 V @ 0.8 A +3.3 V @ 14 A	100,000 hrs	UL/CSA / TUV/CCIB
48 V <sub>DC</sub>	310 W	-38 ~ -58 V <sub>DC</sub>	+5 V @ 25 A +12 V @ 10 A		UL/CSA/TÜV
24 V <sub>DC</sub>	250 W	19 ~ 32 V <sub>DC</sub>	-5 V @ 1 A -12 V @ 1 A		

- **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 (AWS-8420TP) / LVDS (AWS-8420T)
- **Luminance** 350 cd/m<sup>2</sup>
- **Viewing Angle (H/V°)** 140 / 120

### Touchscreen (optional)

- **Interface** USB
- **Lifespan** 1 million touches at a single point
- **Light Transmission** 72 %
- **OS Support** MS-DOS, Windows 95/98/NT/2000/XP, Linux
- **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 (Storing)** 5 ~ 95% RH, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storing Temperature** -20 ~ 60° C

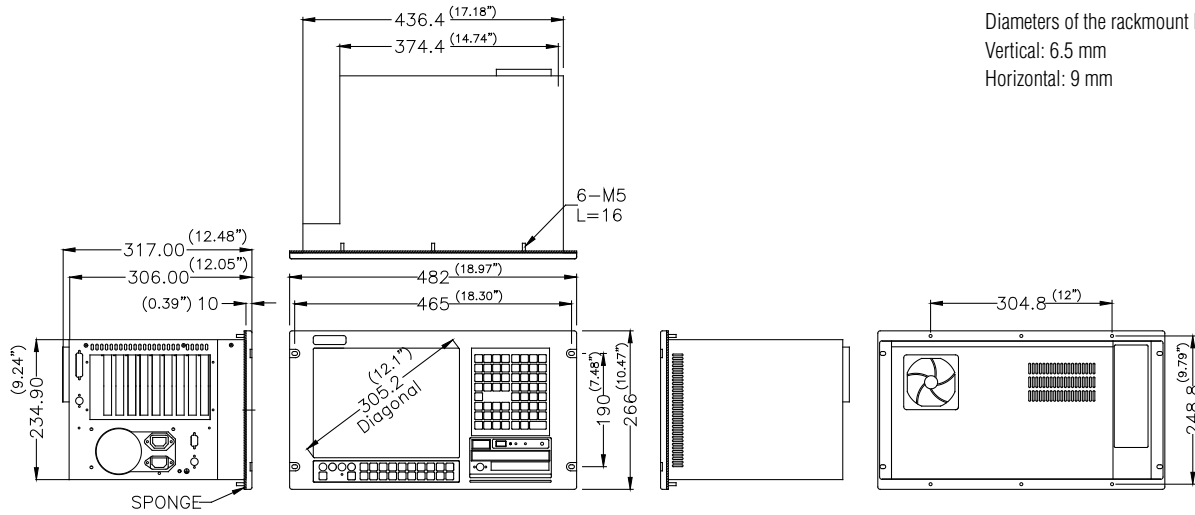
### Passive Backplanes

- **PCA-6109P4** 4 PCI, 4 ISA, 1 CPU slot backplane
- **PCA-6108P8** 8 PCI slots
- **PCA-6108E-0C1** 8 ISA slots

**Dimensions**

Unit: mm

Diameters of the rackmount holes:  
Vertical: 6.5 mm  
Horizontal: 9 mm



Cut out dimension 440.40 x 238.90 mm (17.33" x 9.40")

**Ordering Information**

- **AWS-8420TP-X(R)A1** 12.1" TFT, 4 ISA & 4 PCI slots, 250 W 110/220 V<sub>AC</sub> power supply, 3.5" slim FDD (Resistive touchscreen)
- **AWS-8420T-X(R)A1** 12.1" TFT, 8 PCI slots, 250 W 110/220 V<sub>AC</sub> power supply, 3.5" slim FDD (Resistive touchscreen)
- **AWS-8420T-X(R)A2** 12.1" TFT, 8 ISA slots, 250 W 110/220 VAC power supply, 3.5" slim FDD (Resistive touchscreen)
- **CDR-842-COMBO** COMBO Slim CD-ROM for AWS-8420

**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-6003VE-00A1	Intel Pentium III (133 MHz FSB)	Socket 370 Pentium/Celeron processor card with VGA/LAN
PCI-6881F-S0A1	1.1 GHz Pentium M	PCI μFCPGA2 478 Slot PC, Pentium 1.1 GHz on Board w/LAN/VGA/LVDS/CFC
PCI-6872F-00A1	1.26 GHz Pentium III	PCI Socket 370 half-sized CPU Card with VGA/LCD/LVDS/LAN/CFC
PCA-6774F-00A1	1.26 GHz Pentium III	ISA Socket 370 Slot CPU Card with VGA/LCD/LAN/CFC

**Top View**

