

AWS-8420

Workstation with 12.1"
LCD & 8 Expansion Slots



Features

- 8 ISA or 4 ISA, 3 PCI, 1 CPU slot combined backplanes
- Case dimensions (W x L x H): 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

- **Front Panel** Aluminum, meets NEMA4/IP65
- **Disk Drive Housing** Supports one slim 3.5" FDD, one 3.5" HDD & one slim CD-ROM (HDD and CD-ROM optional)
- **LCD Interface** 3.3 V TTL
- **VGA Card** PCA-6654LB, PCI-bus, 2 MB VRAM onboard (AWS-8420TP & AWS-8420TP-T only)
- **Compatible CPU Card** PCA-6751/6770 (for 8420T)
- **Cooling System** One 49 CFM fan on rear panel
- **Membrane Keypads** One with 60 data-entry keys, one with 10 function keys and 10 programmable macro function keys
- **Keyboard/mouse Connector** 6-pin PS/2 connector with dust-protection door on front panel
- **Indicators** LEDs for power on/off and HDD activity
- **Touchscreen (optional)** Analog resistive type with RS-232 controller
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Relative Humidity** 5 ~ 85% @ 50° C, non-condensing
- **Storage Temperature** -20 ~ 60° C
- **Storage Humidity** 5 ~ 95% non-condensing
- **Dimensions (W x H x D)** 482 x 266 x 317 mm (19.0" x 10.5" x 12.5")
- **Gross Weight** 17 kgs (37.5 lbs)
- **Certifications** CE, FCC, BSMI, CCC compliant

Passive Backplane

- **PCA-6108P3** 4 ISA, 3 PCI, 1 CPU slot
- **PCA-6108** 8 ISA slot

Power Supply Options

AC input 250 W (standard offer)

- **Input** 90 ~ 135 V_{AC} or 180 ~ 265 V_{AC} switchable
- **Output** +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
- **MTBF** 100,000 hours
- **Safety** UL/CSA/TÜV/CCIB

48 V_{DC} input 310 W (option offer)

- **Input** -38 ~ -58 V_{DC}
- **Output** +5 V @ 25 A; +12 V @ 10 A; -5 V @ 1 A; -12 V @ 5 A
- **MTBF** 100,000 hours
- **Safety** UL/CSA/TÜV

24 V_{DC} input 250 W (option offer)

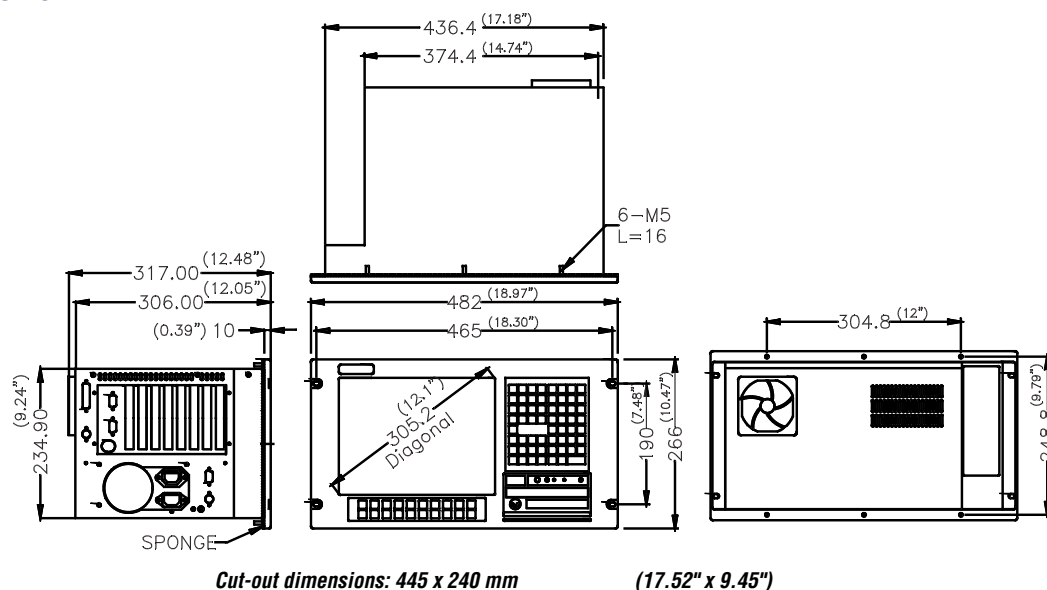
- **Input** +19 ~ +32 V_{DC}
- **Output** +5 V @ 25 A; +12 V @ 10 A; -5 V @ 1 A; -12 V @ 1 A
- **MTBF** 100,000 hours
- **Safety** UL/CSA/TÜV

LCD Display

- **Display type** 12.1" TFT color LCD
- **Max. resolution** 800 x 600
- **Max. colors** 262 K
- **Luminance** 200 cd/m²
- **Viewing angle** 90° (H), 40° (V)
- **Operating temperature** 0 ~ 50° C
- **VR control** Brightness & ON/OFF
- **LCD MTBF** 50,000 hrs
- **Backlight MTBF** 20,000 hrs
- **Default VGA card** PCA-6654LB (TP & TP-T only)

Dimensions

Unit: mm



Ordering Information

- **AWS-8420TP** 12.1" TFT, 4 ISA & 3 PCI slots, 250 W 110/220 VAC power supply, 3.5" slim FDD, PCA-6654LB PCI VGA card
- **AWS-8420T** 12.1" TFT, 8 ISA slots, 250 W 110/220 VAC power supply, 3.5" slim FDD, without VGA card
- **AWS-8420TP-T** AWS-8420TP with resistive touchscreen (RS-232 interface)
- **AWS-8420T-T** AWS-8420T with resistive touchscreen (RS-232 interface)
- **AWS-8420T-C1** AWS-8420T bundle PCA-6359V CPU card
- **AWS-8420TP-C1** AWS-8420TP bundle PCA-6359V CPU card
- **AWS-8420T-C2** AWS-8420T bundle PCA-6770F CPU card
- **AWS-8420TP-C2** AWS-8420TP bundle PCA-6179L CPU card
- **AWS-8420T-TC1** AWS-8420T-T bundle PCA-6359V CPU card
- **AWS-8420TP-TC1** AWS-8420TP-T bundle PCA-6359V CPU card
- **AWS-8420T-TC2** AWS-8420T-T bundle PCA-6770F CPU card
- **AWS-8420TP-TC2** AWS-8420TP-T bundle PCA-6179L CPU card
- **CDR-842-0024** Slim 24X CD-ROM kit

Optional PCI Fieldbus Card

- Supports CANopen, DeviceNet or Profibus by request

Top View



1
IPPC & AWS

2
TPC

3
FPM

4
ATM

5
DA&C

6
cPCI

7
ADAM-3000

8
eConnectivity

9
ICOM

10
Software

11
UNO-2000/3000

12
VBOX

13
ADAM-4000

14
ADAM-5000

15
ADAM-6000

16
ADAM-8000