

# AWS-843

*Slim Workstation with 10.4" SVGA  
LCD & PCI Backplane*



## Introduction

The AWS-843 is a compact, high standard industrial workstation. It is designed to meet the tough needs of PC-based industrial automation. With a depth of only 220 mm, it is easy to install on a machinery platform. Three fans are equipped to keep the working environment cool and stable. Featuring a stainless steel back case, the system is even tougher and more environmentally friendly than ever. Two HDD bays make the system flexible for expansion. High resolution (800x600) SVGA TFT LCD is equipped for high quality display needs.

## Specifications

- **Front panel:** Aluminum, meets NEM4/IP65
- **Construction:** Heavy-duty stainless steel chassis
- **Disk drive housing:** Supports one slim 3.5" FDD, two 3.5" HDDs & one slim CD-ROM (CD-ROM and HDD optional)
- **VGA card:** ISA-bus; PCA-6653, with 1 MB VRAM on board, PCI-bus; PCA-6654LB, with 2 MB VRAM on board
- **Cooling system:** Two 49 CFM fans on rear panel, one in power supply
- **Membrane keypads:** One with 60 data-entry keys, one with 10 function keys and 10 programmable macro function keys
- **Keyboard connector:** 5-pin DIN 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 (see page 5-16), 35 million touch lifetime
- **Operating temperature:** 0 ~ 50° C (32 ~ 122° F)
- **Relative humidity:** 5 ~ 85% @ 40° C, non-condensing
- **Storage temp.:** -20° ~ 60° C
- **Storage humidity:** 5 ~ 95% non-condensing
- **Dimensions (W x H x D):** 482 x 266 x 220 mm (19.0" x 10.5" x 8.7")
- **CE, FCC, BSMI, C-UL US compliant**
- **Gross Weight:** 15.6 kg (34.4 lbs)

- **Vibration (operation):**  
5 ~ 500 Hz 1G RMS Random Vibration

## Passive Backplane

- **PCA-6107P2:** 4 ISA, 2 PCI, 1 CPU slots
- **PCA-6108C:** 8 ISA slots

## Power Supply Options

### AC input 260 W (standard offer)

- **Input:** 85 ~ 130 V<sub>AC</sub> or 180 ~ 260 V<sub>AC</sub>, switchable
- **Output:** +5 V @ 25 A; +12 V @ 9 A;  
-5 V @ 0.5 A; -12 V @ 2.0 A
- **MTBF:** 100,000 hours
- **Safety:** UL/CSA/TÜV

### -48 V<sub>DC</sub> input 310 W (option offer)

- **Input:** -38 ~ -58 V<sub>DC</sub>
- **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

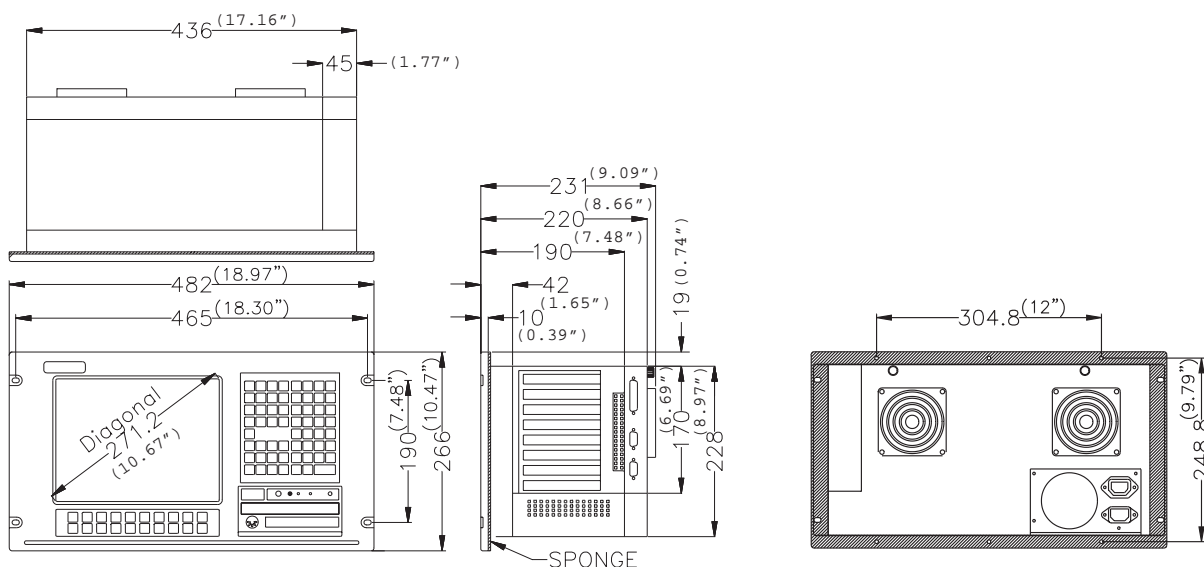
### 24 V<sub>DC</sub> input 250 W (option offer)

- **Input:** +19 ~ +32 V<sub>DC</sub>
- **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



## Dimensions

Unit: mm (inch)



Cut out dimension: 445 x 240 mm  
(17.52" x 9.45")

Model	AWS-843T	AWS-843HTP
Display type	10.4" TFT color LCD	
Max. resolution	640 x 480	800 x 600
Max. colors	256K colors	
Dot size (mm)	0.33 (H) x 0.33 (V)	0.26 (H) x 0.26 (V)
Luminance (cd/m <sup>2</sup> )	250	250
Viewing area (mm)	215.2 x 162.4	
Operating Temp	0 ~ 50° C	
VR control	Brightness	
Simultaneous mode	Yes	
LCD MTBF	50,000 Hrs	
Backlight MTBF	25,000 Hrs	25,000 Hrs
Default VGA card	PCA-6653	PCA-6654LB
Backplane	PCA-6108C	PCA-6107P2

## Ordering Information

- AWS-843HTP**  
10.4" SVGA TFT LCD, 4 ISA & 2 PCI slots, 260 W 110/220 V<sub>AC</sub> power supply, 3.5" Slim FDD, PCA-6654LB PCI VGA card
- AWS-843TP**  
10.4" VGA TFT LCD, 4 ISA & 2 PCI slots, 260 W 110/220 V<sub>AC</sub> power supply, 3.5" Slim FDD, PCA-6654LB PCI VGA card
- AWS-843T**  
10.4" VGA TFT LCD, 8 ISA slots, 260 W 110/220 V<sub>AC</sub> power supply, 3.5" Slim FDD, PCA-6653 ISA VGA card
- AWS-843HTP-T**  
AWS-843HTP + touchscreen (RS-232-bus interface)
- AWS-843TP-T**  
AWS-843TP + touchscreen (RS-232-bus interface)
- AWS-843T-T**  
AWS-843T + touchscreen (RS-232-bus interface)

## Accessories

- CDR-842-0024**  
Slim 24X CD-ROM kit with support bracket