Industrial Automation Platform

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## Industrial Automation Platform Selection Guide

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<th>AWS-8248V</th>
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<tr>
<td>Brief Description</td>
<td>Modular Workstation (2-Piece Design)</td>
<td>Cost-Effective Modular Workstation</td>
<td>Compact Workstation with 8-slot Backplane</td>
<td>Workstation with 8 expansion slots</td>
</tr>
<tr>
<td>LCD Display</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Diagonal</td>
<td>15”</td>
<td>15”</td>
<td>12.1”</td>
<td>12.1”</td>
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<tr>
<td>Type</td>
<td>TFT Color LCD</td>
<td>TFT Color LCD</td>
<td>TFT Color LCD</td>
<td>TFT Color LCD</td>
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<tr>
<td>Resolution</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>800 x 600</td>
<td>800 x 600</td>
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<tr>
<td>Colors</td>
<td>262 K</td>
<td>262 K</td>
<td>262 K</td>
<td>262K</td>
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<td>Viewing Angle (H°, V°)</td>
<td>140, 120</td>
<td>140, 120</td>
<td>90, 40</td>
<td>90, 40</td>
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<td>Luminance(cd/m²)</td>
<td>300</td>
<td>300</td>
<td>100</td>
<td>100</td>
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<tr>
<td>Backlight Lifetime</td>
<td>50,000 hours</td>
<td>50,000 hours</td>
<td>20,000 hours</td>
<td>20,000 hours</td>
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<td>VGA</td>
<td>VGA</td>
<td>3.3 V TTL</td>
<td>3.3 V TTL</td>
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<td>Other</td>
<td>Detachable display module</td>
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<td>Default VGA Card: Brightness &amp; On/Off VR Control</td>
<td>Default VGA Card: Brightness &amp; On/Off VR Control</td>
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<td>OSD (on screen display)</td>
<td>On Front Panel</td>
<td>On Front Panel</td>
<td>-</td>
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<tr>
<td>BackPlane</td>
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<tr>
<td>Slot Number</td>
<td>9</td>
<td>14</td>
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<tr>
<td>CPU, PCI, ISA, PCI/ISA</td>
<td>1, 0, 8, 0 (AWS-8259T)</td>
<td>0, 0, 14, 0 (AWS-8248VT)</td>
<td>0, 0, 8, 0 (AWS-8430T)</td>
<td>0, 0, 8, 0 (AWS-8420T)</td>
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<td>Storage Device</td>
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<td>FDD (standard)</td>
<td>1</td>
<td>1</td>
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<td>HDD Housing</td>
<td>3.5” x 2</td>
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<td>3.5” x 1</td>
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<td>CD-ROM (optional)</td>
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<td>Standard (24X) x 1</td>
<td>Slim Type (24X) x 1</td>
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<td>Key Pad</td>
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<td>Data Entry Keys</td>
<td>39</td>
<td>39</td>
<td>60</td>
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<td>Function Keys</td>
<td>10</td>
<td>10</td>
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<td>Macro Function Keys</td>
<td>10</td>
<td>10</td>
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<td>Touch Screen (Optional)</td>
<td>Analog Resistive</td>
<td>Analog Resistive</td>
<td>Analog Resistive</td>
<td>Analog Resistive</td>
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<td>Power Supply (AC)</td>
<td>300 W</td>
<td>250 W</td>
<td>300 W</td>
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<td>Front Panel Compliance</td>
<td>NEMA 4/IP65</td>
<td>NEMA 4/IP65</td>
<td>NEMA 4/IP65</td>
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<td>Operating Temperature</td>
<td>0 ~ 50° C (32 ~ 122° F)</td>
<td>0 ~ 50° C (32 ~ 122° F)</td>
<td>0 ~ 50° C (32 ~ 122° F)</td>
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<td>Storage Temperature</td>
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<td>-20 ~ 60° C (-4 ~ 140° F)</td>
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<td>Certifications</td>
<td>CE, FCC, BSMI, CCC</td>
<td>CE, FCC, BSMI, CCC</td>
<td>CE, FCC, BSMI, CCC</td>
<td>CE, FCC, BSMI, CCC</td>
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<tr>
<td>Dimensions (W x H x D) (mm)</td>
<td>482 x 256 x 229 mm (19” x 14” x 9”)</td>
<td>482 x 256 x 450 mm (19” x 14” x 17.7”)</td>
<td>482 x 266 x 220 mm (19” x 10.5” x 8.7”)</td>
<td>482 x 266 x 317 mm (19” x 10.5” x 12.5”)</td>
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<td>Weight</td>
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<td>25.5 kg</td>
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<td>Model Number</td>
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<td>Any model above can bundle with a CPU card</td>
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<td>12.1&quot;</td>
<td>14.1&quot;</td>
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<td>Weight</td>
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<td>482 x 173 x 265 mm</td>
<td>482 x 266 x 310 mm</td>
<td>482 x 173 x 265 mm</td>
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<td>Digital</td>
<td>19&quot; x 14&quot; x 9&quot;</td>
<td>19&quot; x 10.5&quot; x 8.7&quot;</td>
<td>13.5&quot; x 10.2&quot; x 6.2&quot;</td>
<td>18.9&quot; x 10.5&quot; x 12.2&quot;</td>
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<tr>
<td>262K</td>
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<td>1024 x 768</td>
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<td>640 x 480</td>
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<td>260, 100</td>
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<td>100, 55</td>
<td>80, 45</td>
<td>55, 15/35</td>
<td>170, 170</td>
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<td>120, 100</td>
<td>230</td>
<td>15,000 hours</td>
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<td>20,000 hours</td>
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<td>20,000 hours</td>
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<td>15,000 hours</td>
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<td>VGA</td>
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<td>CE,FCC, BSMI, CCC</td>
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<td>CE,FCC, BSMI, CCC</td>
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<td>250 W</td>
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<td>N/A</td>
<td>N/A</td>
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<tr>
<td>10-50° C (14-122° F)</td>
<td>0-50° C (32-122° F)</td>
<td>-8-60° C (18-140° F)</td>
<td>-8-60° C (18-140° F)</td>
<td>0-50° C (32-122° F)</td>
<td>0-40° C (32-104° F)</td>
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<td>CE,FCC, BSMI, CCC, UL</td>
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<td>CE,FCC, BSMI, CCC</td>
<td>CE,FCC, BSMI, CCC</td>
<td>CE,FCC, BSMI, CCC</td>
<td>CE, FCC, BSMI, CCC</td>
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<tr>
<td>482 x 266 x 310 mm (18.9&quot; x 10.5&quot; x 12.2&quot;)</td>
<td>344 x 260 x 152 mm (13.5&quot; x 10.2&quot; x 6&quot;)</td>
<td>421 x 282 x 230 mm (16.6&quot; x 11.1&quot; x 9.1&quot;)</td>
<td>400 x 320 x 200 mm (15.8&quot; x 12.6&quot; x 7.9&quot;)</td>
<td>482 x 173 x 265 mm (19&quot; x 6.8&quot; x 10.4&quot;)</td>
<td>482 x 173 x 450 mm (19&quot; x 6.8&quot; x 17.7&quot;)</td>
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<td>Analog Resistive</td>
<td>Analog Resistive</td>
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<td>N/A</td>
<td>N/A</td>
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<td>11 kg</td>
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<td>12 kg</td>
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<td>5-20</td>
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<td>5-4</td>
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</tr>
</tbody>
</table>

**Certifications**

- CE, FCC, BSMI, CCC
- NEMA 4/IP65

**Environment**

- Operating Temperature: -20 ~ 60° C (-4 ~ 140° F)
- Storage Temperature: -20 ~ 60° C (-4 ~ 140° F)

**Weight**

- 242 x 356 x 450 mm (9.5" x 14" x 17.7")
- 242 x 173 x 265 mm (9.5" x 6.8" x 10.4")
- 242 x 173 x 450 mm (9.5" x 6.8" x 17.7")

**Touch Screen (Optional)**

- Standard (24X) x 1
- Slim Type (24X) x 1

**Software**

- UNO
- ADAM-3000
- ADAM-4000
- ADAM-5000
- ADAM-6000

**Motion Control**

- BAS
- ICOM
- TP8
- GPC

**Motion Control Software**

- Any model above can bundle with a CPU card

**PC Card Slot**

- Any model above can bundle with a CPU card

**OSD (On Screen Display)**

- Any model above can bundle with a CPU card

**Dimensions**

- 482 x 356 x 450 mm (19" x 14" x 17.7")
- 482 x 173 x 265 mm (19" x 6.8" x 10.4")
- 482 x 173 x 450 mm (19" x 6.8" x 17.7")

**Backlight Lifetime**

- 20,000 hours
- 50,000 hours

**Luminance (cd/m^2)**

- 2,500

**Viewing Angle (H°, V°)**

- 160° x 120°
ATM-4023

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

Features
- 4U height 19" rackmount chassis with 6.4" TFT LCD display
- High-brightness color TFT LCD panel: 300 nits
- VGA resolution: 640 x 480
- Integrated with Video A/D Board with VGA input
- 8-slot expansion passive backplane for half-sized card (8 PCI or 8 ISA)
- Front accessible, easy maintenance CD-ROM Drawer (Option)
- Front accessible USB, PS/2 Keyboard and Mouse I/O interface for easy plug-in
- OSD Menu Control for Brightness adjustment
- Automation testing platform suitable for test & measurement equipment, transportation control stations, and industrial control

Introduction
ATM-4023 features a revolutionary design that fits versatile application integration. This 4U height 8-slot IPC chassis includes an 8 expansion slots passive backplane, 6.4" high-brightness TFT color LCD display, 5 function keys, 5 cursor keys, and an optional slim type CD-ROM drawer. The front-accessible wiring design also ensures easy maintenance. Various mounting kits, including a rackmounting and desktop kit are designed to fit different applications.

ATM-4023 is targeted as an automation testing platform, for test and measurement equipment, transportation control stations, and industrial control.

Specifications
- Drive Bay: Front-accessible 3.5" CD-ROM x 2, slim type CD-ROM Drawer (Option) x 1
- Cooling: 61.8 CFM/each cooling fan, easy maintenance

Environment Specifications
- Operating Temperature: 0 ~ 50° C (32 ~ 122° F)
- Storage Temperature: -40 ~ 75° C (-40 ~ 167° F)
- Humidity: 10 ~ 95 % @ 40° C, non-condensing
- Operating Vibration: 1 grms (5~500 Hz) (random)
- Non-Operating Vibration: 2 g (5~500 Hz) (sine)
- Package Vibration: 2.16 grms (5~500 Hz)
- Acoustic Noise: Less than 52 dB sound pressure at 5 ~ 28° C (41 ~ 82° F)
- Altitude: 0 ~ 3048 m (0 ~ 10,000 ft)
- Dimensions (W x H x D): 482 x 173 x 265 mm (19" x 6.8" x 10.4")
- Weight: 12 kg (26.4 lb)
- Compliance: CE, FCC, CCC, BSMI

Power Supply

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Specifications</th>
<th>Watt</th>
<th>Input</th>
<th>Output</th>
<th>Mini-load</th>
<th>Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1A-6250P</td>
<td></td>
<td>250 W</td>
<td>100/240 V/6-3A 50/60 Hz</td>
<td>+5 V @ 24 A</td>
<td>+3.3 V @ 20 A</td>
<td>+12 V @ 12 A</td>
</tr>
</tbody>
</table>

Ordering Information
- ATM-4023H0-2Z: 8 ISA slot Industrial Automation platform with 6.4" LCD/4U/Half Size/Front Wiring/PCA-6108E (rev.C1)/250 W
- ATM-4023H8-A2: 8 PCI slot Industrial Automation platform with 6.4" LCD/4U/Half Size/Front Wiring/PCA-6108P8 (rev.A1)/PCI-6870F-00A1 (PIII)/250 W
- ATM-4023H0-B1: 8 ISA slot Industrial Automation platform with 6.4" LCD/4U/Half Size/Front Wiring/PCA-6108E (rev.C1)/PCA-6774F-02A1 (PIII)/250 W
- ATM-4023H0-B2: 8 ISA slot Industrial Automation platform with 6.4" LCD/4U/Half Size/Front Wiring/PCA-6108E (rev.C1)/PCA-6751-F0B2 (P266)/250 W
- PCA-6872F-00A1: PCI Socket 370 Slot PC, VGA/LCD/LVDS/LAN/CFC
- PCA-6870F-00A1: PCI Socket370 815E Slot PC VGA/82562/AUDIO/CFC2
- PCA-6774-02A1: ISA Socket 370 Slot PC with VGA/LCD/LAN/CFC

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
**ATM-4233**

**4U 14-slot Industrial Automation Chassis with 6" LCD**

### Features
- 4U height 19" rackmount chassis with 6" TFT LCD display.
- Integrated Video A/D Board ensures CPU card compatibility up to Intel® Pentium® 4
- 14-slot expansion passive backplane
- Front accessible disk drive bays for easy installation of up to 3 vibration damped 5.25" 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 bottom
- Telecom/Power station portal and 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 the following features and functions.

- New high brightness 6.4" color TFT LCD panel.
- Integrated Video A/D Board with VGA input.
- Compatible with CPU cards up to Intel Pentium 4
- New passive backplane: (2 options)

### Specifications
- **Disk Drive Bay**: 3 x vibration damped, front-accessed 5.25" bays.
- **Cooling Fan**: Dual 90mm easy-to-replace high CFM cooling fans
- **Controls**
  - Power On/Off Button in front panel (behind the lockable door)
  - Reset Button in front panel (behind the lockable door)
  - OSD: (On/Off, Menu, Select, Auto, Right, Left)
- **Display**: 6" TFT LCD display and membrane control interface on both sides
- **Connectors**
  - Front access USB x 2, 1 x 6-pin PS/2 keyboard port
  - 1 x 6-pin PS/2 mouse port (front Panel), 6-pin PS/2 keyboard port for external connection (rear panel).
- **Front Panel & Lockable Door**: Aluminum ionized anti-scratch protection. An accessible air filter is located behind the door.
- **External LED Indicator**: 1 x system power, 1 x HDD data access
- **Dimension (W x H x D)**
  - 482 x 173 x 450 mm (19" x 6.8" x 17.7")
- **Weight**: 18 kg (35.2 – 39.6 lb)
- **Paint Color**: Pantone 4C 2X black, textured
- **Operating Temperature**: 0 ~ 50° C (32 ~ 122° F)
- **Storage Temperature**: -40 ~ 75° C (-40 ~ 167° F)
- **Relative Humidity**: 10 ~ 95% @ 40° C, non-condensing
- **Vibration (Operating)**: 5 ~ 500 Hz, 1 grms (Random)
- **Vibration (Storage)**: 5 ~ 500 Hz, 2.16 grms (Random)
- **Altitude**: 0 ~ 3048 m (0 ~ 10,000 ft)
- **Safety**: CE, FCC, CCC and BSMI

### LCD Display
- **Display Type**: 6" TFT color LCD
- **Max. Resolution**: 640 x 480
- **Max. Colors**: 262 K
- **Luminance**: 400 cd/m²
- **Viewing Angle**: 120° (H), 100° (V)
- **Operating Temperature**: 0 ~ 50° C (32 ~ 122° F)
- **OSD control for Brightness adjustment**
- **Backlight MTBF**: 50,000 hours

### Backplane Options
- **PCA-6114P4-C**: 8 ISA/4 PCI/2 PCIMG
- **PCA-6114P10-B**: 2 ISA/10 PCI/2 PCIMG

---

**NEW**

**Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com**
ATM-4233

Dimensions

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

- **ATM-4233N10-C2**  
  14-slot (2 ISA/10 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-61114P10-B/ PCA-6004VE-00A1(C3 800MHz)/ 250W Power Supply

- **ATM-4233N10-C3**  
  14-slot (2 ISA/10 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-61114P10-B/ PCA-6003VE-00A1(PIII)/250W Power Supply

- **ATM-4233N10-C4**  
  14-slot (2 ISA/10 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-61114P10-B/ PCA-6187VE-00A1(P4 800 MHz FSB)/250W Power Supply

- **ATM-4233N4-25Z**  
  14-slot (8 ISA/4 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-6114P4-C / 250W Power Supply

- **ATM-4233N4-C2**  
  14-slot (8 ISA/4 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-61114P4-C/ PCA-6003VE-00A1(C3 800MHz)/ 250W Power Supply

- **ATM-4233N4-C3**  
  14-slot (8 ISA/4 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-61114P4-C/ PCA-6003VE-00A1(PIII)/250W Power Supply

- **ATM-4233N4-C4**  
  14-slot (8 ISA/4 PCI/2 PCIMG) Industrial Automation platform with 6" LCD / 4U / Standard Size/Rear Wiring/ PCA-61114P4-C/ PCA-6187VE-00A1(P4 800 MHz FSB)/250W Power Supply

All product specifications are subject to change without notice.
# AWS-8259

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

### Features
- 15", 9-slot 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 1 G
- IP65/NEMA 4, Aluminum front panel and stainless steel chassis

### Introduction

The AWS-8259 is an industrial workstation with 8 slots 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 water-proof character keypads & touch pad 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

### Front Panel
- Aluminum, meets NEMA4/IP65

### LCD Display Interface
- VGA

### Display Setting
- OSD on front panel with back light On/Off switch

### Disk Drive Housing
- Supports one 3.5" FDD, one 3.5" HDD & one slim CD-ROM (HDD and CD-ROM optional)

### Cooling System
- One 86 CFM fan

### Membrane Keypads
- One with 39 operating keys, one with 10 function keys and 10 programmable macro function keys

### Keyboard
- 6-pin PS/2 keyboard connector with dust-protection door on front panel

### Touch Pad Interface
- PS/2 mouse

### 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% @ 40° C, non-condensing

### Storage Temperature
- -20 – 60° C

### Storage Humidity
- 5 – 95% non-condensing

### Dimensions (W x H x D)
- 482 x 356 x 229 mm (19.0" x 14.0" x 9")

### Gross Weight
- 22 kg (48 lb)

### Certifications
- CE, CCC, FCC, BSMI

### Passive Backplane
- PCA-6109P4: 4 PCI, 4 ISA, 1 CPU slot backplane
- PCA-6109: 9 ISA slot backplane

### Power Supply
- AC input 300 W (standard offer)
  - Input: 90 – 135 V<sub>AC</sub> or 180 – 265 V<sub>AC</sub>, switchable
  - Output: +5 V @ 30 A; +12 V @ 15 A; +3.3 V @ 24 A; -5 V @ 0.3 A; -12 V @ 0.8 A; +5 V<sub>ES</sub> @ 2 A
  - MTBF: 100,000 hours
  - Safety: UL/CSA/TUV

### LCD Display
- Display Type: 15" XGA TFT LCD
- Max. Resolution: 1024 x 768
- Max. Colors: 262 K
- Luminance: 300 cd/m<sup>2</sup>
- Viewing Angle: 140° (H), 120° (V)
- Operating Temperature: 0 – 50° C
- Backlight Lifetime: 50,000 hours

### Ordering Information
- AWS-8259TP: 15" TFT, 4 ISA & 4 PCI & 1 CPU slots, 300 W AC power supply, 3.5" slim FDD
- AWS-8259T: 15" TFT, 9 ISA slots, 300 W 110/220 V AC power supply, 3.5" slim FDD
- AWS-8259TP-T: AWS-8259TP with resistive touchscreen (RS-232 interface)
- AWS-8259T-T: AWS-8259T with resistive touchscreen (RS-232 interface)
- CDR-8259-24x: Compact 24X CD-ROM

### Optional PCI Fieldbus Card
- Supports CANopen, DeviceNet™ or PROFIBUS™ by request

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![AWS-8259 Modular Workstation](image)
Dimensions

Unit: mm

Back View

Side View

Cut-out dimensions (W x H): 449 x 336 mm
AWS-8430

Compact Workstation with 12.1" LCD & 8 Expansion Slots

Introduction
The AWS-8430 is a compact, high standard industrial workstation designed to meet the tough needs of PC-based industrial automation. With a depth of only 220 mm, it can be easily installed 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 tough and environmentally friendly. Two HDD bays make the system flexible for expansion, while the high resolution (800x600) SVGA TFT LCD provides all you need for high quality display needs.

Specifications
- Front Panel: Aluminum (meets NEM4/IP65)
- Construction: Heavy-duty stainless steel chassis
- Disk Drive Housing: Supports one slim FDD, one 3.5" HDD & one slim CD-ROM (CD-ROM and HDD optional)
- LCD Interface: 3.3 V TTL
- VGA Card: PCA-6654LB, PCI-bus, 2 MB VRAM onboard (AWS-8430TP & AWS-8430TP-T only)
- 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/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% @ 40° C, non-condensing
- Storage Temperature: -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")
- Certifications: CE, CCC, FCC, BSMI compliant
- Gross Weight: 15.6 kg (34.4 lb)
- Vibration (operation): 5 ~ 500 Hz 1 grms Random Vibration
- Passive Backplane: PCA-6107P2 - 4 ISA, 2 PCI, 1 CPU slots
- PCA-6108C - 8 ISA slots

Power Supply Options
- AC input 300 W (standard offer)
  - Input: 90 ~ 135 V<sub>AC</sub> or 180 ~ 265 V<sub>AC</sub>, switchable
  - Output: +5 V @ 30 A; +12 V @ 15 A; +3.3 V @ 24 A
  - -5 V @ 0.3 A; -12 V @ 0.8 A; +5 VSB @ 2 A
  - MTBF: 100,000 hours
  - Safety: UL/CSA/TÜV

- 48 V<sub>DC</sub> input 310 W (ODM 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 (ODM 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

LCD Display
- Display Type: 12.1" TFT color LCD
- Max. Resolution: 800 x 600
- Max. Colors: 262 K
- Luminance: 100 cd/m<sup>2</sup>
- Viewing Angle: 90° (H), 40° (V)
- Operating Temperature: 0 ~ 50° C
- VR Control: Brightness & ON/OFF
- Backlight MTBF: 20,000 hours
- Default VGA card: PCA-6654LB (TP only)
Ordering Information

- **AWS-8430TP**
  12.1” SVGA TFT LCD, 4 ISA & 2 PCI slots, 300 W 110/220 VAC power supply, 3.5” Slim FDD, PCA-6654LB PCI VGA card

- **AWS-8430T**
  12.1” SVGA TFT LCD, 8 ISA slots, 300 W 110/220 VAC power supply, 3.5” Slim FDD, without VGA card

- **AWS-8430TP-T**
  AWS-8430TP with resistive touchscreen (RS-232 interface)

- **AWS-8430T-T**
  AWS-8430T with resistive touchscreen (RS-232 interface)

- **AWS-8430TP-C1**
  AWS-8430TP bundle PCA-6359V CPU card

- **AWS-8430TP-C2**
  AWS-8430TP bundle PCA-6359VE CPU card

- **AWS-8430TP-C3**
  AWS-8430TP bundle PCA-6179V CPU card

- **AWS-8430TP-C4**
  AWS-8430TP bundle PCA-6179VE CPU card

- **AWS-8430TP-TC1**
  AWS-8430TP-T bundle PCA-6359V CPU card

- **AWS-8430TP-TC2**
  AWS-8430TP-T bundle PCA-6359VE CPU card

- **AWS-8430TP-TC1**
  AWS-8430TP-T bundle PCA-6179V CPU card

- **AWS-8430TP-TC2**
  AWS-8430TP-T bundle PCA-6179VE CPU card

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

Optional PCI Fieldbus Card

- Supports CANopen, DeviceNet™ or PROFIBUS™ by request

Back View

Cut-out dimensions (W x H): 442 x 234 mm (17.4" x 9.2")
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 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 Cards: PCA-6751 and PCA-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
- VR Control: Brightness & ON/OFF
- Backlight MTBF: 20,000 hrs
- Default VGA card: PCA-6654LB (TP & TP-T only)

Power Supply Options

AC input 250 W (standard offer)

- Input: 90 – 135 VAC or 180 – 265 VAC 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

48 VDC input 310 W (option offer)

- Input: -38 to -58 VDC
- 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 VDC input 250 W (option offer)

- Input: 19 – 32 VDC
- 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: 100 cd/m2
- Viewing Angle: 90° (H), 40° (V)
- Operating Temperature: 0 – 50°C
- VR Control: Brightness & ON/OFF
- Backlight MTBF: 20,000 hrs
- Default VGA card: PCA-6654LB (TP & TP-T only)
Dimensions

Cut-out dimensions: 445 x 240 mm
(17.52” x 9.45”)

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
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

- **Front Panel**: Aluminum, meets NEMA4/IP65 standard
- **Disk Drive Housing**: Supports one 3.5" FDD, two 3.5" HDD and one 3.5" CD-ROM (HDD and CD-ROM optional)
- **Two Cooling Fans**: 32 CFM fan for power supply, 36 CFM fan for plug-in cards
- **Membrane Keypads**: One with 39 operating keys, one with 10 function keys and 10 programmable macro function keys, on screen display (OSD) operation keys
- **Keyboard Connector**: 5-pin DIN connector on both front panel and rear panel
- **Controls**: Reset and power on/off
- **Indicators**: LEDs for power on/off and HDD activity
- **Touchscreen (optional)**: Analog resistive type with RS-232 interface
- **Dimensions (W x H x D)**: 482 x 356 x 450 mm (19.0" x 14.0" x 17.7")
- **Operating Temperature**: 0 – 50°C (32 – 122°F)
- **Storage Temperature**: -40 – 60°C
- **Storage Humidity**: 5 – 95% non-condensing
- **Vibration (operation)**: 5 – 17 Hz, double-amplitude displacement
- **Certifications**: CE, FCC, CCC, BSMI compliant

**LCD Display**

- **Display Type**: 15" TFT LCD
- **Max. Resolution**: 1024 x 768
- **Max. Colors**: 262 K
- **Luminance**: 300 cd/m2
- **Viewing Angle**: 140° (H), 120° (V)
- **Operating Temperature**: 0 – 50°C (32 – 122°F)
- **Backlight MTBF**: 50,000 hrs
- **Interface**: Direct VGA
- **Display Setting**: OSD

**Power Supply**

- **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

**Ordering Information**

- **AWS-8248VT**: 15" TFT LCD, 14 ISA slots, 250 W 110/220 V AC power supply, 3.5" FDD
- **AWS-8248VTP-T**: AWS-8248VT with resistive touchscreen (RS-232 interface)
- **AWS-8248VTP-T-C1**: AWS-8248VTP-T with PCA-6003H CPU card
- **AWS-8248VT-C1**: AWS-8248VT bundle PCA-6003H CPU card
- **AWS-8248VTP-C1**: AWS-8248VTP bundle PCA-6003H CPU card
- **AWS-8248VTP-TC1**: AWS-8248VTP-T bundle PCA-6003H CPU card
- **AWS-8248VT-TC2**: AWS-8248VT-T bundle PCA-6180E CPU card
- **AWS-8248VTP-TC2**: AWS-8248VTP-T bundle PCA-6180E CPU card
- **AWS-8248VT-C2**: AWS-8248VT bundle PCA-6180E CPU card
- **AWS-8248VTP-C2**: AWS-8248VTP bundle PCA-6180E CPU card

Optional PCI Fieldbus Card

- Supports CANopen, DeviceNet™ or PROFIBUS™ by request
Feature Details

Easy-to-maintain: three card-cage and thumbscrew fasteners
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.
AWS-8100G

Industrial Workstation with 10.4" TFT LCD

Features
- 10.4" TFT Color LCD Display
- SVGA Resolution: 800 x 600
- High Brightness LCD: 230 nits
- LCD backlight can be turned on/off by OSD key
- 9 Expansion Passive Backplane: 4 PCI/4 ISA/1 CPU or 6 PCI/2 ISA/1 CPU
- Supports up to Intel® Pentium® 4 CPU card with video A/D board
- Up Cover easy installation add-on card

Introduction
The AWS-8100G is a PC-based industrial workstation with an industrial-grade 10.4" TFT LCD display. The AWS-8100G is specifically designed for use within factories and other harsh industrial environments. The 19" frame can be rack mounted or panel mounted. The AWS-8100G provides 9 PCI/ISA slots, which offers great flexibility for application-specific requirements.

Specifications

LCD Panel
- Display Type: 10.4" SVGA TFT LCD
- Front Panel: Aluminum, meets NEMA4/IP65
- Resolution: 800 x 600
- Maximum Colors: 262 K
- Luminance (cd/m²): 230 nits
- Viewing Angle: 120°(H), 100°(V)
- Contrast Ratio: 500:1
- LCD backlight can be turned on/off by OSD key

Control Chassis
- Housing: Front panel: Aluminum - Other panel: Steel
- High Frequency Anti-Vibration Mechanism for HDD
- Inverter: INV-00630
- Video A/D Board: BIEN_ZAN3
- Membrane Keypad: 60 numerical keys, 10 function keys, 10 programmable keys
- I/O Interface: 1 x PS/2 Keyboard (inside the open-able door on front panel) or side panel, 1 x PS/2 Mouse (inside the open-able door on front panel), 2 x Front accessible USB ports
- Cooling System: One 86 CFM fan
- Operating Temperature: 0 – 50° C (32 – 122° F)
- Storage Temperature: -20 – 60° C
- Dimensions (W x H x D): 482 x 266 x 310 mm (include Fan Cover)
- Gross Weight: 11 kg

Passive Backplane
- Backplane: 9 Extension Slots
  PCA-6109P4: 1 CPU, 4 ISA, 4 PCI
  PCA-6108P6: 1 CPU, 2 ISA, 6 PCI
- CPU Compatibility: P4 Grade: 3.06 G
  P3 Grade: 1.26 G
- Power Supply: FSP250-60ATV
- Certifications: CE, FCC, BSMI, CCC, UL

Ordering Information
- AWS-8100GP4: 10.4" Workstation General Brightness TFT LCD /4 PCI Slots
- AWS-8100GP6: 10.4" Workstation General Brightness TFT LCD /6 PCI Slots
- AWS-8100GP4-R: 10.4" Workstation General Brightness TFT LCD/ Resistive Touch Screen/4 PCI Slots
- AWS-8100GP6-R: 10.4" Workstation General Brightness TFT LCD/ Resistive Touch Screen/6 PCI Slots
- AWS-8100GP4-CX: AWS-8100GP4 bundle with suggested CPU card (refer to No. 6 Table)
- AWS-8100GP4-RCX: AWS-8100GP4-R bundle with suggested CPU card (refer to No. 6 Table)
- AWS-8100GP6-CX: AWS-8100GP6 bundle with suggested CPU card (refer to No. 6 Table)
- AWS-8100GP6-RCX: AWS-8100GP6-R bundle with suggested CPU card (refer to No. 6 Table)
CPU Card Bundling Suggestion

<table>
<thead>
<tr>
<th>Code</th>
<th>CPU Grade</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>P4 (400/533/800 MHz FSB)</td>
<td>PCA-6187VE-00A1</td>
<td>Socket 478 Pentium® 4/Celeron® Processor card with VGA/Dual Gigabit LAN/HISA/SCSI (400/533/800 MHz FSB)</td>
</tr>
<tr>
<td>C2</td>
<td>P4 (400/533 MHz FSB)</td>
<td>PCA-6186VE-00A1</td>
<td>Socket 478 Pentium® 4/Celeron® Processor card with VGA/Dual Gigabit LAN/HISA (400/533 MHz FSB)</td>
</tr>
<tr>
<td>C3</td>
<td>P4 (400/533 MHz FSB)</td>
<td>PCA-6184VE-00A2</td>
<td>Socket 478 Pentium® 4/Celeron® Processor card with VGA/Dual Gigabit LAN/HISA (400/533 MHz FSB)</td>
</tr>
<tr>
<td>C4</td>
<td>P3 (133 MHz FSB)</td>
<td>PCA-6180E-00B1</td>
<td>Socket 370 Pentium® III/Celeron® Processor card with VGA/Dual LAN/SCSI/HISA (133 MHz FSB)</td>
</tr>
</tbody>
</table>

The extension model no. for above AWS-8100G products bundling with various CPU card, refer to the CPU card suggestion Table above. Note: Other CPU cards not listed in this table will be treated as OEM/ODM case with T-P/N for easy-control and maintenance of product number.
Features
- 12.1" Color TFT LCD
- 4 Slot Backplane
- Compact Size
- NEMA4/IP65 compliant front panel
- Optional Resistive Touchscreen

Introduction
The AWS-8124 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
- **Front Panel**: Aluminum, meets NEMA4/IP65
- **Disk Drive Housing**: Holds one 3.5" FDD and one 3.5" HDD (HDD optional)
- **Cooling System**: One 32.8 CFM fan on side
- **Slots**: 4 ISA slots (8124T), 4 PCI slots (8124TP)
- **LCD Interface**: 3.3 V TTL
- **Compatible CPU Card**: PCA-6751/6752/6770 (for 8124T)
- **Operating Temperature**: 0 ~ 50° C (32 ~ 122° F)
- **Relative Humidity**: 5 ~ 95% @ 40° C (non-condensing)
- **Vibration (Operating)**: 5 ~ 500 Hz 0.5G RMS Random Vibration
- **Dimension (W x H x D)**: 344 x 260 x 152 mm (13.5" x 10.2" x 6.0")
- **Gross Weight**: 9.5 kg (21 lb)
- **Certifications**: CE, CCC, FCC, BSMI

Power Supply Options
- **AC input 80 W (Standard offer)**
  - Input: 100 VAC/3 A – 240 VAC/1.2 A @ 47 ~ 63 Hz
  - Output: +5 V @ 12 A, +12 V @ 1.0 A
  - MTBF: 200,000 hours
  - Safety: UL/CSA/CE
  - EMI: FCC Class B
- **DC input 80 W (Option offer)**
  - Input: 24 VDC/7 A – 48 VDC/4 A or 12 VDC/12 A
  - Output: +5 V @ 10 A, +12 V @ 1.5 A, -12 V @ 0.5 A
  - MTBF: 200,000 hours
  - Safety: UL/CSA
  - EMI: FCC Class B

Touchscreen (Optional)
- **Type**: Analog resistive, continuous resolution
- **Light Transmission**: 72%
Dimensions

Unit: mm

Cut-out dimension: 327 x 213 mm (12.87" x 8.39")

Panel Mounting

Optional PCI Fieldbus Card
- Supports CANopen, DeviceNet™ or PROFIBUS™ by request

Back View

Cut-out dimension: 327 x 213 mm (12.87" x 8.39")
### Introduction

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

The PWS-1419 complies with stringent industrial standards. Built with an all-aluminum enclosure with 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

- **Chassis**
  - PWS-1419 - complete aluminum
  - PWS-1409 - aluminum chassis w/ ABS plastic shell
- **Backplane**
  - TP version-1 CPU, 4 ISA, 4 PCI, T version-1 CPU, 8 ISA
- **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
- **Operating Temperature**
  - -8 ~ 60° C
- **Storage Temperature**
  - -20 ~ 60° C
- **Humidity**
  - PWS-1419 5 ~ 95 % RH, non-condensing
  - PWS-1409 10 ~ 90 % RH, non-condensing
- **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”)
- **Weight**
  - PWS-1419: 12 kg (26.4 lb)
  - PWS-1409: 9 kg (19.8 lb)

### LCD Display

- **PWS-1409**
  - 14” Active Matrix TFT
  - Max. Resolution: 1024 x 768
  - Max. Colors: 262 K
  - Viewing Angle:
    - H: left side 40°, right side 40°
    - V: up side 15°, down side 30°
  - Lumiance: 130 cd/m²
  - Backlight Lifetime: 25,000 hrs
- **PWS-1419**
  - 14” Active Matrix TFT
  - Max. Resolution: 1024 x 768
  - Max. Colors: 262 K
  - Viewing Angle:
    - H: left side 50°, right side 50°
    - V: up side 20°, down side 35°
  - Lumiance: 220 cd/m²
  - Backlight Lifetime: 25,000 hrs

### Ordering Information

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

Front View
Industrial Automation Platform
Naming Rule

Example Description: 8 PCI slots Industrial Automation Platform with 6.4" LCD / 4U / Half size / Front-access / Front Wiring / PIII CPU card / 250W power supply

AWS Series Naming Rule

Example Description: 12.1" WorkStation General brightness TFT LCD / Resistive touch screen / PCI slot