# AWS-8129H

## 12.1" SVGA TFT LCD Industrial Workstation with 9 x ISA/PCI Slots, Passive Backplane and Membrane Keypad

## 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)

## 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 | 115/235 V$_{AC}$, 60-50 Hz, 10/5A (switchable) | +5 V @ 27/21.8 A<br>+12 V @ 13 A<br>+5 VSB @ 2 A<br>-5 V @ 0.3 A<br>-12 V @ 0.8 A<br>+3.3 V @ 12.12/20 A | 100,000 hrs | UL/CSA/ IEC/TUV/ NEMKO+CB |

- **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$^2$
- **Viewing Angle (H/V°)**      140/120
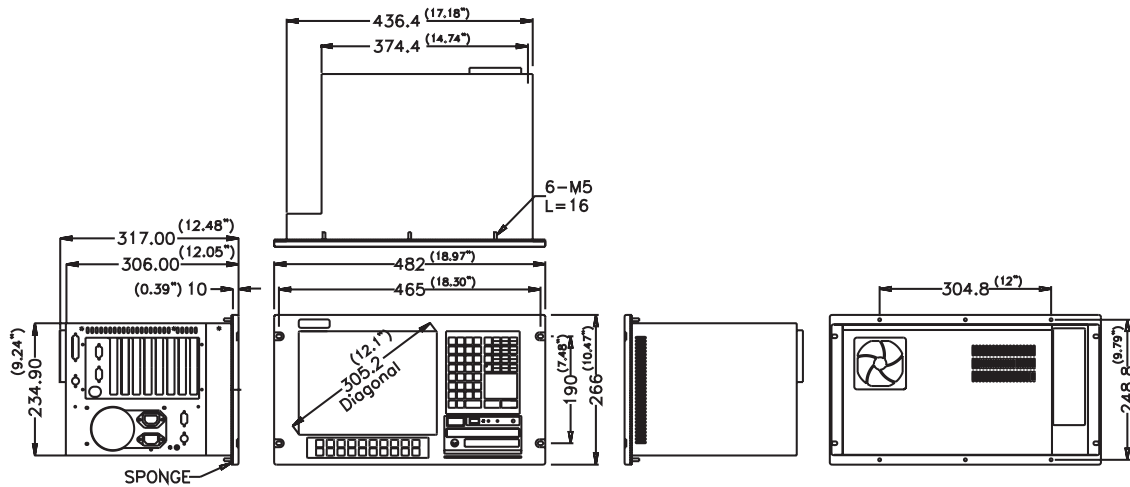
### Touchscreen (Optional)

- **Interface**      USB
- **Lifespan**      10 million touches at a single point
- **Light Transmission**      80%
- **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
- **Vibration (Operating)**      5 ~ 17 Hz, double-amplitude displacement 17 ~ 500 Hz, 1.0 G peak to peak

## Dimensions

Unit: mm



436.4 (17.18")
374.4 (14.74")
6-M5
L=16
317.00 (12.48")
306.00 (12.05")
482 (18.97")
(0.39") 10
465 (18.30")
(12.1")
305.2
Diagonal
234.90 (9.24")
304.8 (12")
190 (7.48")
266 (10.47")
248.8 (9.79")
SPONGE

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

## Ordering Information

- **AWS-8129H1-XAE**     12.1" SVGA TFT LCD Passive Backplane Industrial Workstation with 9 x ISA/PCI/PICMG Slots and Membrane keypad
- **AWS-8129H1-RAE**     AWS-8129H1-XAE with resistive touchscreen
- **AWS-8129H2-XAE**     12.1" SVGA TFT LCD Passive Backplane Industrial Workstation with 9 x ISA Slots and Membrane keypad
- **AWS-8129H2-RAE**     AWS-8129H2-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



## Accessories

- **1702002600**     Power Cable US Plug 1.8 M
- **1702002605**     Power Cable EU Plug 1.8 M
- **1702031801**     Power Cable UK Plug 1.8 M
- **1702031836**     Power Cable China/Australia Plug 1.8 M