AMB-611 series

Industrial Workstation with 10.4"
Flat-panel Display and Keypad

1. 19" aluminum sealed alloy front panel
2. Data entry membrane keypad
3. FDD anti-dust door
4. Function key membrane keypad
5. 10.4" Flat-panel display
6. Dual cooling fans
7. 14-Slot passive backplane or Baby-AT motherboard
8. Hold-down clamp
9. Changeable rear bracket panel
10. Universal 250W switching power supply
11. Rugged steel chassis
12. FDD & HDD drive bay

Introduction

The AMB-611 series workstation is a PC-based industrial computer that meets EIA-RS310C rack mount standards. It is a bare-bone PC-based system that can be installed with different levels of full size CPU Card with a 10.4" VGA color TFT LCD display. The AMB-611 series comes with a dedicated ISA-bus video display card (MBC-265B) and uses TTL technology. A heavy-duty steel chassis and NEMA 4/12 aluminum alloy front panel is designed for any harsh environment of industrial standards.

Features

- 10.4" TFT VGA color LCD display
- Aluminum alloy front panel and heavy-duty steel chassis
- Water-proof front panel meets NEMA 4/12 & IP65
- Two sealed membrane keyboard, 59 data-keys and 20 function keys
- Disk drive bay for 3.5" FDD and HDD
- 14 x ISA or 4 x PCI, 2 x PICMG, 8 x ISA-bus passive backplane
- Easily replaced cooling fan filter
- Two 64 CFM cooling fans

Specifications

- **Construction:** Heavy-duty steel chassis & NEMA 4/12 aluminum alloy front panel.
- **Display:** 10.4" VGA color TFT LCD
- **Disk Drive Housing:** 3.5" FDD and 3.5" HDD space
- **Front panel color:** PMS-403C (military green)
- **Mounting:** Rack mount, 6U height
- **Power supply:**
  Universal 250W switching power supply
- **Dimension (W x H x D):**
  483 x 266 x 470mm (19" x 10.5" x 18.5")
- **Carton Dimension (W x H x D):**
  613 x 556 x 365mm (24.1" x 21.8" x 14.3")
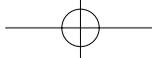- **Gross Weight:** 21.2 Kg (46.7 lbs)

Flat Panel Control Card (MBC-265B)

- **Type:** Half-size ISA-bus
- **Video Chip:** TOPRO TP8650
- **DRAM:** On-board 1MB, up to 2.5MB (optional)
- **Connectors:** Built in 8/16-bit, 18-bit and 24-bit panel connector.
- **Max. resolution and color:** 800 x 600 @256K color

MBC-266B (optional)

- **Type:** Half-size PCI-bus
- **Video Chip:** Chips T65550
- **DRAM:** On-board 1MB, up to 2.5MB (optional)
- **Connectors:** Built in 8/16-bit, 18-bit and 24-bit panel connector.
- **Max. resolution and color:** 1024 x 768 @256K color

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Environmental Specifications

- **Operating temperature:** 0° to 45°C (32~113°F)
- **Storage temperature:** -20° to 60°C (-4~140°F)
- **Storage humidity:**
  10 to 95%@40°C, non-condensing
- **Vibration:**
  1G / 5 ~ 500Hz / operation
- **Shock:** 50G peak acceleration (20 msec. duration)
- **EMI:** CE/FCC Class A

Touchscreen (optional)

Type: 4-wire, analog resistive

Resolution: 1024 x 1024

Light transmission:

72% (surface meets ASTM-D-3363-92A standard.)

Operating pressure: 30-45 grams for finger, 10 grams for stylus pen. Contact bounce< 10ms

Controller: RS-232 interface

OS support: MS DOS, Windows 3.1, Windows 95, Windows 98, Windows NT, Windows 2000

LCD Specifications

Model	AMB-611HT
Display type	10.4" color TFT LCD
Max. Resolution	640 x 480
Max. Colors	256K
Dot size (mm)	0.33 x 0.33
Luminance (cd/m^2)	250
Viewing angle	80° (H)
	45° (V)
Temperature	0℃~ 50℃ (32~122℉)
Brightness Control	VR
LCD MTBF (Hrs)	50,000
Back Light MTBF (Hrs)	30,000

Ordering Information

- **AMB-611HT**
  Industrial Workstation with 10.4" color TFT LCD display and keypad, ISA VGA card, 14 x ISA or 4 x PCI, 2 x PICMG, 8 x ISA Backplane, 250W AC power supply
- **AMB-611HTT**
  AMB-611HT + touchscreen (RS-232 interface)
- **MBC-6210/MBC-140** (refer to p. 75)
  MicroPCI FC Socket 370 CPU Card with C&T 69000/ 69030 VGA and Realtek RTL8139 Family LAN
  - **CPU:** supports Intel Celeron/Coppermine up to 1.0GHz (FSB 66/100 MHz)
  - **Memory:** supports up to 768MB SDRAM
- **Optional**
  - CPU
  - RAM
  - FDD
  - 3.5" HDD
  - PCI VGA card
  - 14-Slot PICMG Backplane
  - 250W DC 24V power supply

Dimension

Unit : mm

434
470
483
463
25
10
191
76
266
246

AMB-611