

# AMB-541 series

## 14.1" Panel PC with 5 slots Industrial Chassis



▶ AMB-541HT

### Introduction

The AMB-541 panel PC, is a PC-based industrial computer designed to serve as a Man Machine Interface. It is a bare-bone PC-based system which could be configured with different levels of full size CPU cards with a 14.1" XGA (1024 x 768) color TFT LCD display. The AMB-541 series comes with a dedicated PCI-bus video display card (MBC-268B) and uses LVDS technology. A heavy-duty steel chassis and NEMA 4/12 aluminum alloy front panel is designed for any harsh environment of industrial standards. AMB-541 rear side door is able to open for easy maintenance and disk drive housing for CD-ROM, FDD and HDD.

### Features

- 14.1" XGA color TFT LCD display
- Heavy-duty steel chassis and NEMA 4/12 compliant aluminum alloy front panel
- 5 slots ISA/PCI-bus passive backplane
- Disk driver bay for CD-ROM, FDD and HDD
- Hold-down clamp protecting cards from vibration
- Cooling fan filter is easily replaced
- 30 CFM cooling fans

### Specifications

- **Construction:** Heavy-duty steel chassis & NEMA 4/12 aluminum alloy front panel.
- **Display:** 14.1" XGA (1024 x 768) color TFT LCD
- **Disk Drive Housing:** 3.5" HDD space, 3.5" FDD space and 5.25" CD-ROM space

- **Front panel color:** PMS-403C (military green)
- **Mounting:** Panel mount
- **Power supply:**  
Universal 250W switching power supply
- **Dimension (W x H x D):**  
420 x 300 x 205mm (16.5" x 11.8" x 8.1" )
- **Gross Weight:** 18.1Kg (40 lbs)

### Environmental

- **Operating temperature:** 0° to 50°C (32~122°F)
- **Storage temperature:** -20° to 60°C (-4~140°F)
- **Storage humidity:** 5 to 95%, non-condensing
- **Altitude:** 10,000 ft. (3000 meters)
- **Vibration:**  
5 to 17 Hz, 0.1" double-amplitude displacement  
17 to 500 Hz, 1.5G peak to peak
- **Shock:** 10G peak acceleration (11 msec. duration)
- **EMI:** CE/FCC Class A

### LCD Specifications

Model	AMB-541HT
Display type	14.1" color TFT LCD
Max. Resolution	1024 x 768
Max. Colors	256K
Dot size (mm)	0.279 x 0.279
Luminance (cd/m <sup>2</sup> )	200
Viewing angle	90°(H)
	50°(V)
Temperature	0°C ~ 50°C (32~122°F)
Brightness Control	VR
LCD MTBF (Hrs)	50,000
Back Light MTBF (Hrs)	25,000

## Flat Panel Display Control Card

(MBC-268B+LVDS)

- **Type:** Half-size PCI-bus
- **Video Chip:** Chips T65555
- **DRAM:** On-board 2MB
- **Connectors:** Built in 36-bit panel connector.
- **Max. resolution and color:** 1024x768 @ 16bits color

## Touchscreen (optional)

**Type:** 8-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

**Power consumption:** +5V @200mA

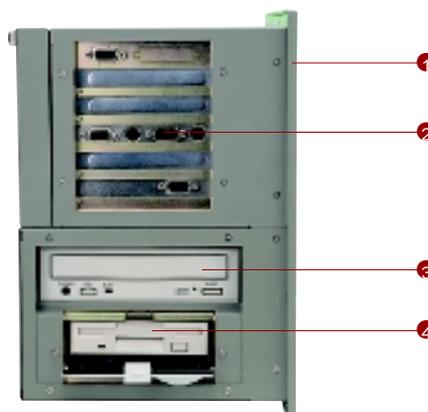
**OS support:** MS DOS, Windows 3.1, Windows 95, Windows 98, Windows NT, Windows 2000.

## Ordering Information

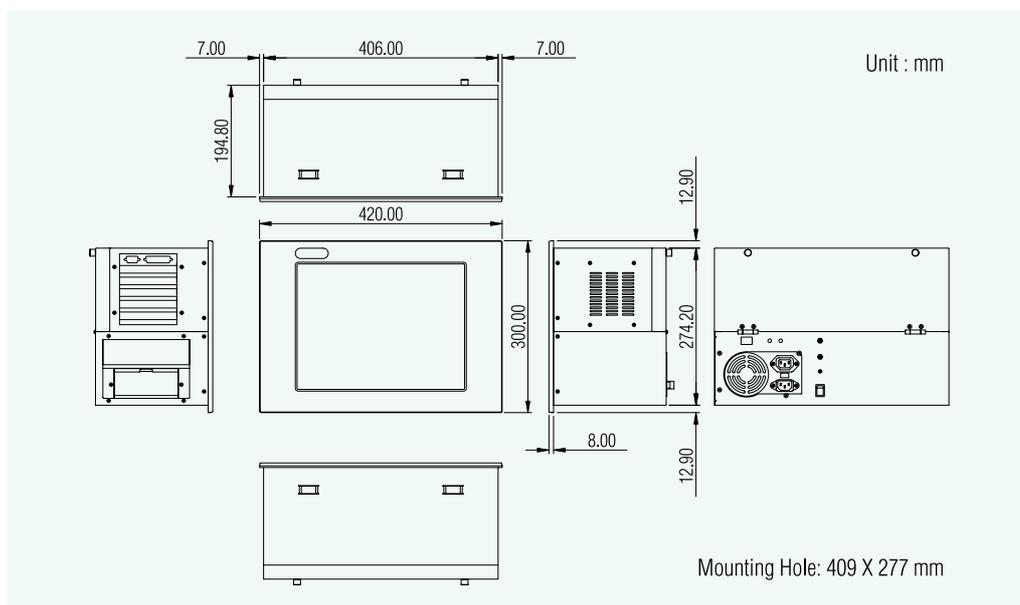
- **AMB-541HT**  
14.1" color TFT LCD display Panel PC with 5 slots PICMG Backplane, PCI VGA card, 250W AC power supply
- **AMB-541HTT**  
AMB-541HT + touchscreen (RS-232 interface)
- **MBC-6210 / MBC-140** (refer to p.93)  
**MicroPCI Socket 370 CPU Card with C&T 69000 VGA and Realtek RTL8139B LAN**  
**CPU:** Intel Celeron/Coppermine up to 850MHz (FSB 66/100MHz)  
**Memory:** support up to 768MB SDRAM
- **Optional**
  - CPU
  - 250W DC 24V power supply
  - RAM
  - 3.5" HDD
  - 5.25" CD-ROM
  - AKB-107 (refer to p.98) - AKB-106 (refer to p.98)

- 5-slot ISA/PCI passivc backplane
- Cooling fen with removable filter
- Hold-down clamp
- Power switch
- Universal 250W power sypply

- Sealed aluminum alloy front panel
- Rear bracked
- CD-ROM drive bay
- 3.5" FDD and HDD drive bay



## Dimension



AMB-541HT