

## AMB-513 series

### 9.4"/10.4" Panel PC with 4-Slot Industrial Chassis



▶ AMB-513 series

#### Introduction

The AMB-513 panel PC is a PC-based industrial computer designed to serve as a Human Machine Interface. It is a bare-bone PC-based system which could be configured with different levels of Half-size CPU cards with a 9.4" VGA (640 x 480) color DSTN or 10.4" color TFT LCD display. The AMB-513 series comes with a dedicated ISA-bus video display card (MBC-265B) and uses TTL technology. The heavy-duty steel chassis and NEMA 4/12 plastic front panel are designed for any harsh environment of industrial standards. AMB-513 has disk drive housing for 3.5" FDD and 3.5" HDD.

#### Features

- 9.4" DSTN or 10.4" VGA TFT LCD display
- 4-Slot passive backplane
- Disk driver bay for one 3.5" FDD and one 3.5" HDD
- Easily replaced cooling fan filter
- One 30 CFM cooling fan

#### Specifications

- **Construction:** Heavy-duty steel chassis & NEMA 4/12 plastic front panel.
- **Display:** 9.4" DSTN or 10.4" VGA (640 x 480) TFT LCD
- **Disk Drive Housing:** 3.5" HDD & 3.5" FDD
- **Front panel color:** PMS cool gray 4C
- **Mounting:** Panel mount
- **Expansion slots:** 4-Slot ISA-bus passive backplane
- **Power supply:** Universal 70W switching power supply
- **Dimension (W x H x D):** 301 x 216 x 151mm (11.9" x 8.5" x 5.9" )

- **Carton Dimension (W x H x D):** 385 x 358 x 302mm (15.1" x 14" x 11.8" )
- **Gross Weight:** 10.4Kg (22.8 lbs)

#### MBC-265B

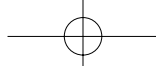
- **Type:** Half-size ISA-bus
- **Video Chip:** TOPRO TP8650
- **DRAM:** On-board 1MB
- **Connectors:** Built in 8/16-bit, 18-bit, and 24-bit panel connector.
- **Max. resolution and color:** 800 x 600 @256K color

#### 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

#### 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:** 10G peak acceleration (11 msec. duration)
- **EMI:** CE/FCC class A



# AMB-513 series

### Touchscreen (optional)

**Type:** 4-wire, analog resistive

**Resolution:** 1024 x 1024

**Light transmission:** >68%

**Lifetime:** 1 million activations

**Operating pressure:** 90g average for finger, 70g average with non-metal stylus

**Controller:** RS-232 interface

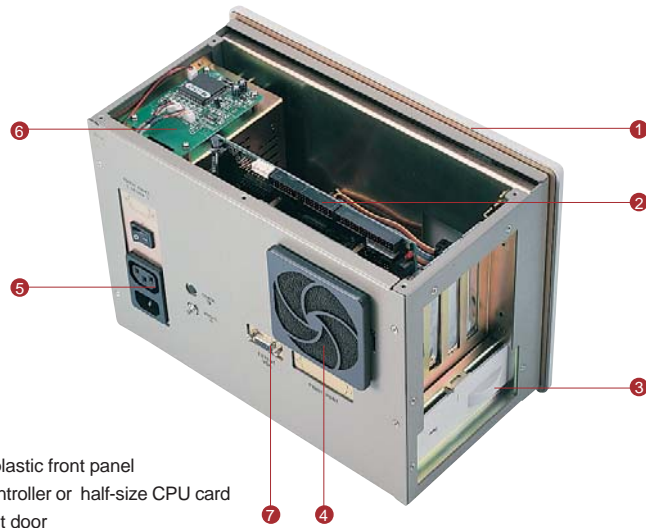
**OS support:** MS DOS, Windows 3.1, Windows 95, Windows 98, Windows ME, Windows NT, Windows 2000

### LCD Specifications

Model	AMB-513CS	AMB-513HT
Display type	9.4" color DSTN LCD	10.4" color TFT LCD
Max. Resolution	640 x 480	640 x 480
Max. Colors	4096	256K
Dot size (mm)	0.30 x 0.30	0.3075 x 0.3075
Luminance (cd/m <sup>2</sup> )	60	250
Viewing angle	60°(H)	80°(H)
	45°(V)	45°(V)
Temperature	0°C~50°C (32~122°F)	0°C~50°C (32~122°F)
Brightness Control	VR	VR
LCD MTBF (Hrs)	50,000	50,000
Back Light MTBF (Hrs)	10,000	30,000

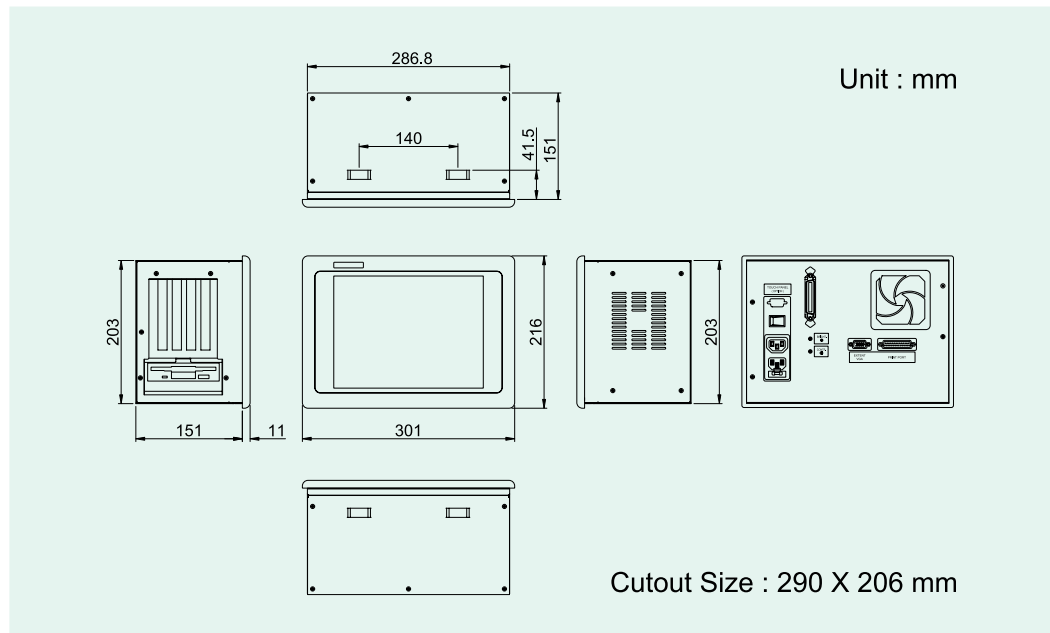
### Ordering Information

- **AMB-513CS**  
9.4" color DSTN Panel PCs, ISA VGA card, 4-Slot ISA Backplane, 70W AC power supply
- **AMB-513CST**  
AMB-513CS + touchscreen (RS-232 interface)
- **AMB-513HT**  
10.4" color TFT Panel PCs, ISA VGA card, 4-Slot ISA Backplane, 70W AC power supply
- **AMB-513HTT**  
AMB-513HT + touchscreen (RS-232 interface)
- **Optional**
  - PCI VGA card
  - 4-Slot PCISA Backplane
  - 70W DC 10~30W power supply
  - FDD
  - 3.5" HDD
  - AKB-106 (refer to p. 80 )
  - AKB-107 (refer to p. 80 )



1. NEMA 4/12 plastic front panel
2. Flat-panel controller or half-size CPU card
3. FDD anti-dust door
4. Air-flow filler
5. Power Inlet & Power On/Off
6. Touchscreen control board (optional)
7. Touchscreen port (optional)

### Dimension



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