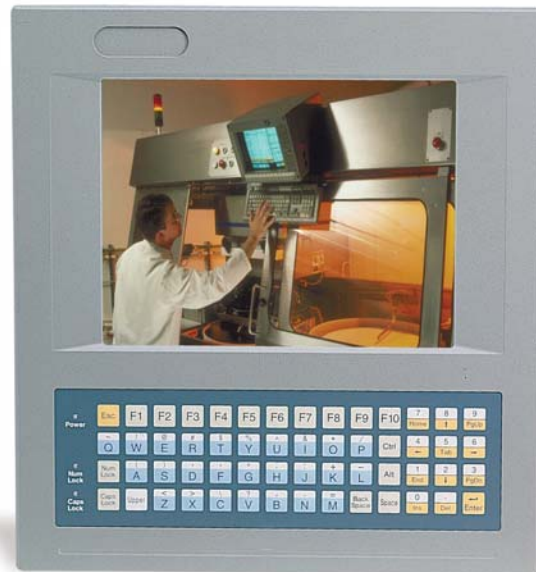# AMB-5172 series

10.4" Industrial Panel PC with keypad

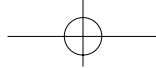

◄ **AMB-5172HT**

Introduction

The AMB-5172 panel PC with 56-key membrane keypad, is a PC-based industrial computer that is designed to serve as a Human Machine Interface (HMI). It is a full-function PC-based system with a 10.4" VGA (640 x 480) color TFT LCD display. It includes an All-in-one SBC which comes equipped with IDE interface, four serial ports, a bi-directional parallel port, PS/2 mouse interface, watch dog timer, keyboard connector, LCD/CRT display controller and a PC/104 expansion connector which allows a PC/104 module to be piggy-back on the board or space for a 3.5" HDD. The heavy-duty steel chassis and NEMA 4/12 aluminum front panel are designed for any harsh environment of industrial standards.

Features

- 10.4" VGA color TFT LCD display
- Heavy-duty steel chassis and NEMA 4/12 compli-ant aluminum front panel
- All-in-one SBC Pentium 233MHz compatible CPU and 32MB DRAM
- Four 16C550 RS-232C port, one RS-232C port can be set as RS-422/485 also
- External FDD connector for AS-40
- DiskOnChip flash disk socket
- PC/104 expansion connector
- 30 CFM cooling fan
- 56-key membrane keypad

Specifications

- **Construction:** Heavy-duty steel chassis & NEMA 4/12 aluminum front panel.
- **CPU:** Pentium 233MHz
- **Memory:** 32MB EDORAM (Up to 128MB)
- **Display:** 10.4" VGA (640 x 480) color TFT LCD
- **LCD/CRT controller:**
  C&T 65554 Chipset on board 2MB EDO display memory.
- **Network (LAN):**
  Chipset : Realtek RTL8139B 100 Base-T Ethernet controller
- **I/O ports:**
  4 serial ports: 3 x RS-232, 1 x RS-232/422/485 (one is reserved for touchscreen)
  1 parallel port (support ECP/EPP)
  1 keyboard port
  1 PS/2 mouse interface
- **Disk Drive Housing:** 3.5" HDD bay & expansion FDD connector for AS-40(optional)
- **Front panel color:** PMS-403C (military green)
- **Mounting:** Panel mount
- **Power supply:**
  Universal 55W switching power supply
- **Dimension (W x H x D):**
  320 x 342 x 85.7mm (12.6" x 13.5" x 3.4")
- **Carton Dimension (W x H x D):**
  479 x 476 x 292mm (18.8" x 18.7" x 11.4")
- **Gross weight:** 9.1Kg (20.1 lbs)

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

Touchscreen (optional)

Type: 4-wire, analog resistive
Resolution: 1024 x 1024
Light transmission: >68%
Lieftime: 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
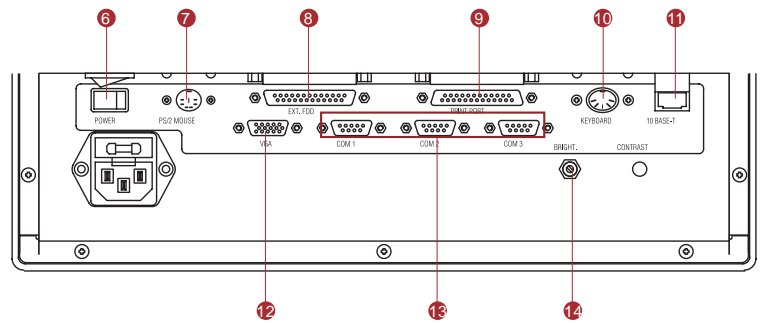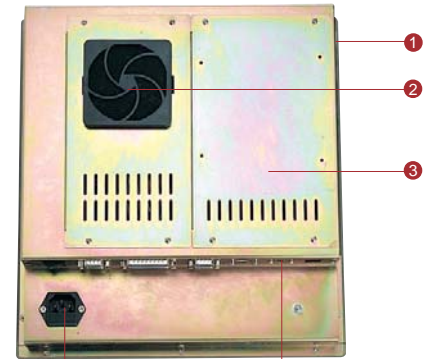
Ordering Information

- **AMB-5172HT**
  Panel PC with 10.4" color TFT LCD display, Pentium SBC, 55W AC power supply
- **AMB-5172HTT**
  AMB-5172HT + touchscreen (RS-232 interface)
- **Optional**
  - CPU   - RAM
  - External 3.5" FDD   - 3.5" HDD
  - 55W DC 24V power supply
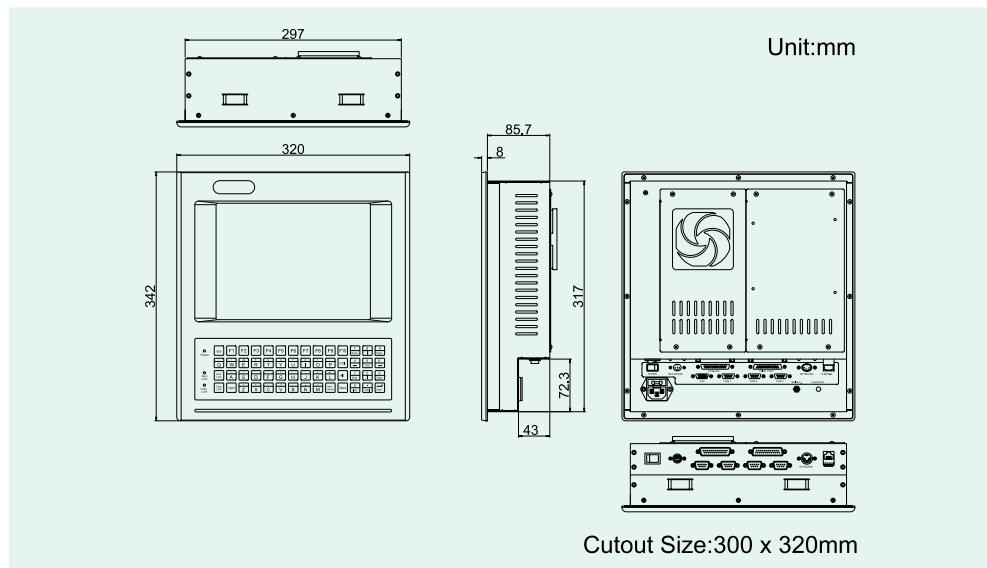 - AS-40 (refer to p.79)

LCD Specifications

Model	AMB-5172HT
Display type	10.4" color TFT LCD
Max. Resolution	640 x 480
Max. Colors	4096
Dot size (mm)	0.30 x 0.30
Luminance (cd/m^2)	70
Viewing angle	60°(H)
	45°(V)
Temperature	0℃~ 50℃(32~122℉)
Brightness Control	VR
LCD MTBF (Hrs)	50,000
Back Light MTBF (Hrs)	20,000

1. NEMA 4/12 painted aluminum alloy front panel
2. 30 CFM cooling fan
3. 3.5" HDD drive bay
4. I/O connectors
5. Power inlet
6. Power On/Off
7. PS/2 mouse interface
8. External FDD port (AS-40)
9. Printer port
10. PS/2 keyboard interface
11. Ethernet port
12. VGA port
13. COM port
14. Brightness Controller

Dimension

Unit:mm

297

320

342

85.7

8

317

72.3

43

Cutout Size:300 x 320mm

AMB-5172HT