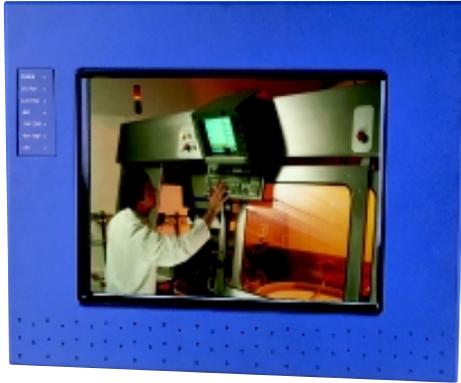


Modular System Panel PCs

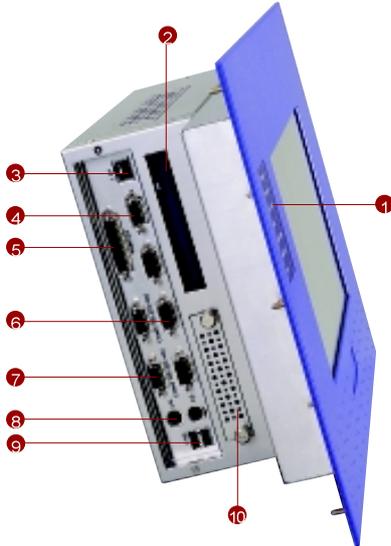


TOP-2000 Series



▲ TOP-2000

▲ Stainless Construction



- | | |
|---------------------------|---|
| 1. Status LED | 6. RS-232 COM port |
| 2. 2.5" Slim FDD | 7. RS-422/485 COM port |
| 3. 10/100 Base-T Ethernet | 8. Keyboard/Mouse connector |
| 4. VGA port | 9. USB port |
| 5. EPP/ECP parallel port | 10. Removable anti-vibration HDD module |

▲ NEMA 4/12 & IP65 Water Proof

Introduction

The TOP-2000 series, an industrial flat panel computer with entire heavy-duty stainless construction, is designed for Human Machine Interface applications, such as factory/ machinery automation, transportation and health care. TOP-2000 exhibits a revolutionary design concept-modulation. It fulfills easy assembling, easy maintenance and easy service. The design assures that the TOP-2000 operators in the environment unaffected by moisture, dust, shock, vibration, most chemicals and strong solvents.

Panel PCs

Features

- 10.4", 12.1", 15" hi-brightness color TFT LCD display
- Aluminum alloy front panel and heavy-duty steel chassis
- Water-proof front panel meets NEMA 4/12 & IP65
- All-in-one SBC with Pentium MMX-233 CPU
- DiskOnChip flash disk socket
- Removable shock-proof HDD module (patented)
- System status LED
- Two free expansion slot
- Resistive touchscreen (optional)
- Infrared touchscreen (optional)

Specifications

- **Construction:** Heavy-duty stainless chassis & NEMA 4/12 & IP65 aluminum front panel.
- **Display:**
 - 10.4" VGA (640 x 480) color TFT LCD
 - 12.1" SVGA (800 x 600) color TFT LCD
 - 15" XGA (1024 x 768) color TFT LCD
- **CPU:** Pentium MMX 233
- **Memory:** Up to 256MB
- **LCD/CRT controller:** C&T 65554 or 69000 SVGA controller
- **Network (LAN):** 10/100 Base-T Ethernet controller
- **I/O ports:**
 - 4 serial ports: 2 x RS232, 2 x RS232/422/485
 - 1 parallel port (support ECP and EPP)
 - 1 PS/2 and 1 keyboard interface
- **Disk drive housing:**
 - IDE HDD interface (2.5" industrial grade) & 3.5" slim FDD
- **USB connector:** Dual USB ports
- **Front panel color:** PMS 2758C (blue)
- **Mounting:** Panel mount
- **Expansion slot:**
 - 2 x ISA or
 - 1 x PCI & 1 x ISA slot
- **Power supply:** Universal 100W switching power supply
- **Dimension (W x H x D):**

Model No	Dimension	Weight
T2-10A	378 x 315 x 179.5mm (14.9" x 12.4" x 7.1")	9.2Kg (20.3 lbs)
T2-12A	404 x 329 x 179.5mm (15.9" x 13" x 7.1")	10.3Kg (22.71 lbs)
T2-15A	490 x 380 x 179.5mm (19.3" x 15" x 7.1")	11.4Kg (25.1 lbs)

Power supply

- **Input Range:** 100~240V AC Full Range, 47-63Hz
- **Output Range:** +5V@12A, +12V@1A
- **MTBF:** 100,000 hrs
- **ESD:** 6KV Contact Discharge
- **Safety:** UL, CUL, CSA, TUV approved
- **EMI and EMC:** FCC/ CE

Environmental

- **Operating temperature:** 0° to 50°C (32° ~ 122°F)
- **Storage temperature:** -20° to 60°C (-4° ~ 140°F)
- **Storage humidity:** 5 to 85%, non-condensing
- **Vibration:**
 - 5 to 17 Hz, 0.1" double-amplitude displacement
 - 17 to 500 Hz, 0.5G peak to peak
- **Shock:** 5G peak acceleration (11 msec. duration)
- **EMI:** FCC/CE Class A

Infrared touchscreen (optional)

Touch-point density: 16tps/cm² physical, 64tps/cm² interpolated

Light transmission: 100%

Response time: 2.5-6.5ms (s/w programmable)

Surface: High grade of surface hardness, chemical resistance w/daylight filtering

Touch sensor life: unlimited

Analog resistive touchscreen (optional)

Resolution: 1024 touch points per axis

Light transmission: 80%

Response time: 8-15ms

Touch sensor life: > 35 million touches

Ordering information

- **T2-10A**
 - Flat panel computer with 10.4" color TFT LCD display
- **T2-10AI**
 - T2-10A + Infrared touch (RS-232 interface)
- **T2-10AR**
 - T2-10A + Resistive touch (RS-232 interface)
- **T2-12A**
 - Flat panel computer with 12.1" color TFT LCD display
- **T2-12AI**
 - T2-12A + Infrared touch (RS-232 interface)
- **T2-12AR**
 - T2-12A + Resistive touch (RS-232 interface)
- **T2-15A**
 - Flat panel computer with 15" color TFT LCD display
- **T2-15AI**
 - T2-15A + Infrared touch (RS-232 interface)
- **T2-12AR**
 - T2-15A + Resistive touch (RS-232 interface)
- **Optional**
 - Stainless front panel for T2-12A

LCD Specifications

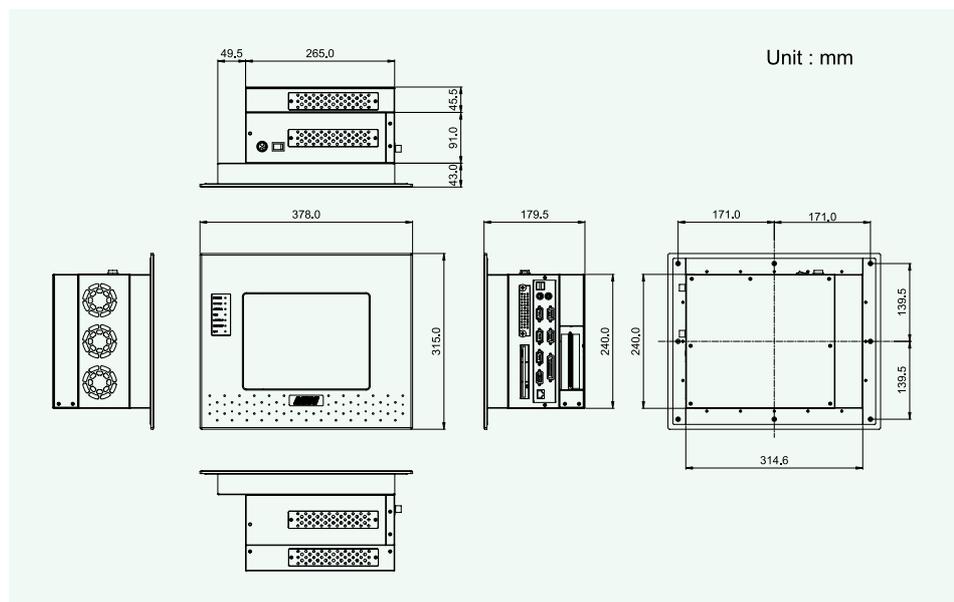
Model	T2-10A	T2-12A	T2-15A
Display type	10.4" color TFT LCD	12.1" color TFT LCD	15" color TFT LCD
Max. Resolution	640 x 480	800 x 600	1024 x 768
Max. Colors	256K	256K	256K
Dot size (mm)	0.33 x 0.33	0.3075 x 0.3075	0.297 x 0.297
Luminance (cd/m ²)	200 or 250	250	200
Viewing angle	140°(H)	110°(H)	160°(H)
	110°(V)	90°(V)	160°(V)
Operating temperature	0°~ 50°C (32~122°F)	0°~ 50°C (32~122°F)	0°~ 50°C (32~122°F)
Brightness Control	Yes	Yes	Yes
LCD MTBF(Hrs)	50,000	50,000	50,000
Back Light MTBF(Hrs)	25,000	25,000	25,000



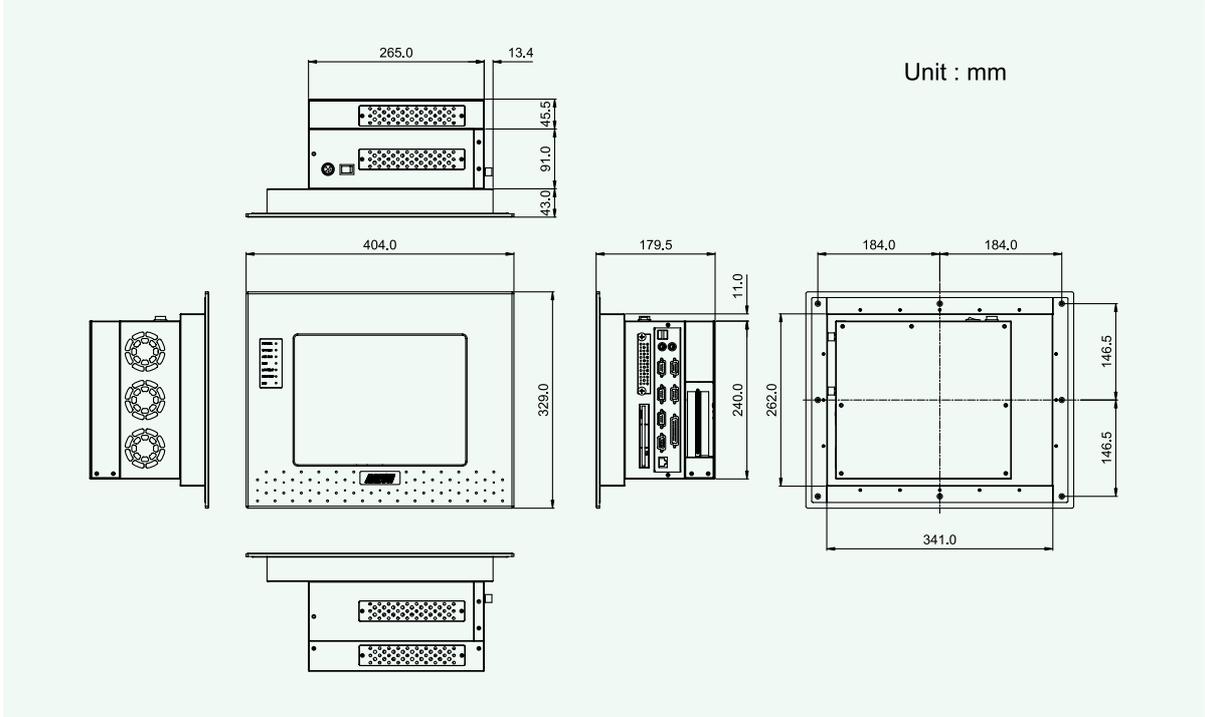
Shock-proof hard disk mobile module (Patented)

Reliable quality

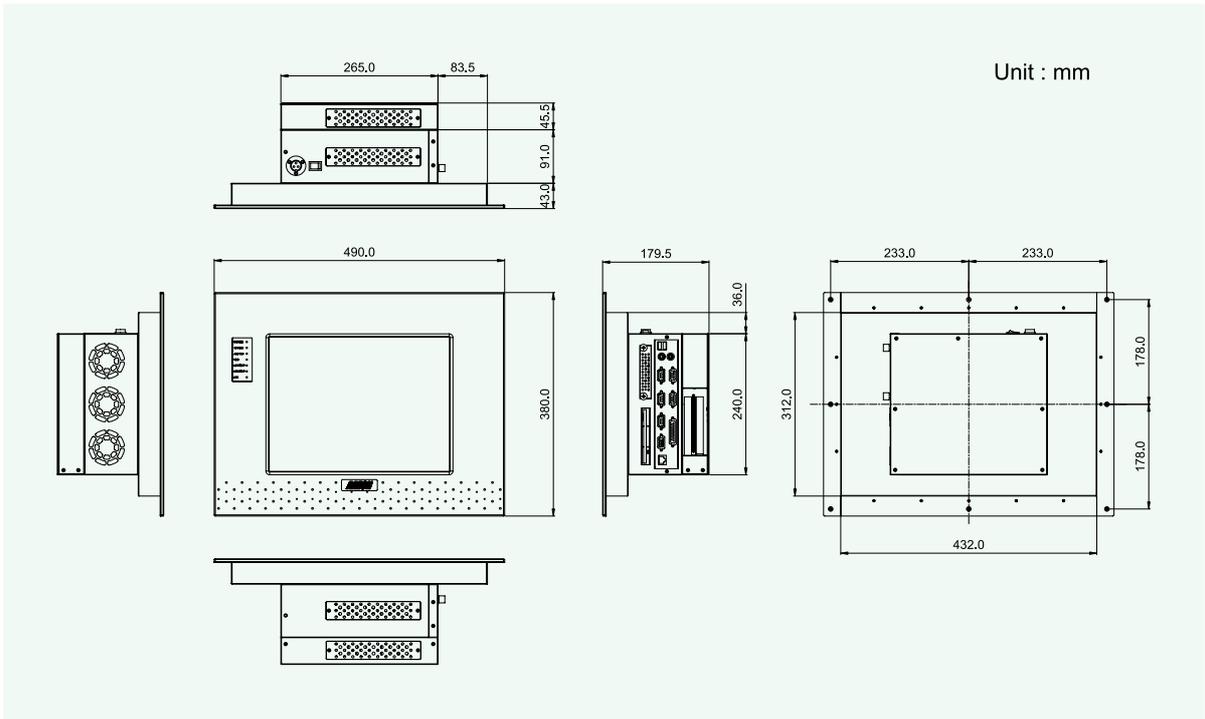
Dimension



T2-10A



T2-12A



T2-15A