

Available in Q3, 2001

# Modular System Panel PCs

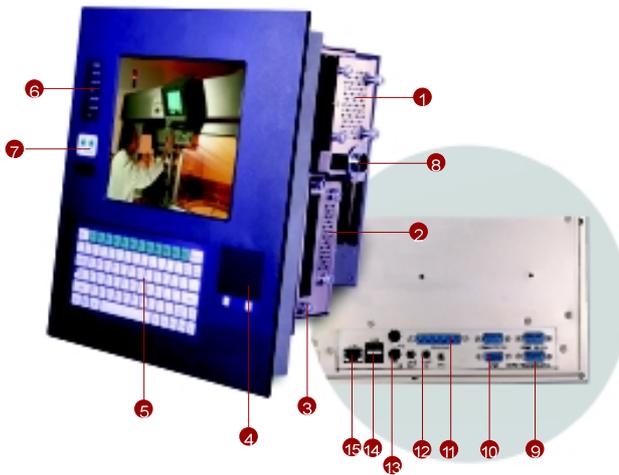
## G-3000 Series



G-3000 Display unit with TFT LCD display (RAL-7035 white)



G-3000 Display unit with membrane keypad and touch pad (PMS 2758C blue)



- |  |                               |
|--|-------------------------------|
| 1. Removable power unit                | 8. Power connector            |
| 2. Removable anti-vibration HDD module | 9. RS-232/422/485 COM port    |
| 3. Removable CD-ROM/FDD module         | 10. VGA port                  |
| 4. Touchpad                            | 11. EPP/ECP parallel port     |
| 5. Membrane keypads (78 data-entry)    | 12. Audio port                |
| 6. Status LED                          | 13. Keyboard/ Mouse connector |
| 7. Brightness control                  | 14. USB port                  |
|  | 15. 10/100 Base-T Ethernet    |



G-3000 Control box

### Introduction

The G-3000 features a slim and flexible design in order to meet every industrial environment and application such as control station, factory, point of sales, point of information, pharmacies and others.

The G-3000 supports CD-ROM, floppy and hard disk drives all of which can be swapped within seconds. In addition, the LCD panel, CPU, expansion ports and power unit are modular as well. Each module can be removed or installed easily. The power unit operates within the ranges of 100~240V AC. These swappable drives help cut down the cost and time required for maintenance; an important requirement of many customers.

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 Celeron/ Coppermine CPU up to 850MHz (FSB 66/100 MHz)
- DiskOnChip flash disk socket
- Removable CD-ROM & FDD module
- Removable shock-proof HDD module (patented)
- Removable Power supply unit
- One free expansion slot for PCI
- IrDA transmission
- Membrane keypad and touch pad
- Resistive touch screen (optional)

## Specifications

- **Construction:** Heavy-duty steel 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:** Intel FC-370 Celeron, Pentium III (up to 850MHz, FSB 66/100 MHz)
- **Memory:** 168Pin DIMM (Up to 256MB)
- **LCD/CRT controller:** C&T 69000 VGA controller with 2MB SDRAM. CRT & LCD panel support.
- **Network (LAN):** Intel 82559ER 10/100 Base-T Ethernet controller
- **I/O ports:**
  - 4 serial ports: 3 x RS232, 1 x RS232/422/485
  - 1 parallel port (supports ECP and EPP)
  - 1 PS/2 mouse and 1 PS/2 keyboard interface
  - Audio Line-in, Line-out, MIC-in
- **Disk drive housing:**
  - 2.5" HDD, 1.44M 3.5" Slim FDD and 24x Slim CD-ROM, all removable
- **USB connector:** Dual USB ports
- **Front panel color:** RAL-7035 (white)
- **Mounting:** Panel mount
- **Expansion slot:** 1 PCI slot
- **Power supply:** Universal 100W switching power supply

## Power supply

- **Input Voltage:** 100-240V AC Full Range, 47-63Hz
- **Output Voltage:** +5V@12A, +12@1A
- **MTBF:** 100,000 hrs
- **Safety:** UL, CSA, TUV approved
- **EMI and EMC:** FCC class B, CISPR22, CE

## 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
- **Vibration:**
  - 5 to 500 Hz, 0.1" double-amplitude displacement
  - 5 to 500 Hz, 1G peak to peak
- **Shock:** 20G peak acceleration (11 msec. duration)
- **EMI:** FCC/CE Class A

## Touchscreen (optional)

**Type:** 8-wire, analog resistive

**Resolution:** 1024 x 1024

**Light transmission:** 68% typical

**Controller:** RS-232 interface

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

**OS support:** Windows and DOS

**Activation Method:** Gloved or ungloved finger or Plastic stylus (no metal) with 1mm radius full hemispherical tip.

## Ordering information

- **G3-10A-B0**  
G-3000 Control Box with Celeron/Coppermine based CPU and 10.4" TFT, LCD(640x480) 200cd/m<sup>2</sup>, 100-240VAC
- **G3-10AR-B0**  
G3-10A-B0 + touchscreen (RS-232)
- **G3-10AM-B0**  
G3-10A-B0 + Membrane K/B and mouse touch pad
- **G3-10A-B1**  
G-3000 Control Box with Celeron/Coppermine based CPU and 10.4" TFT, LCD(640x480) 250cd/m<sup>2</sup>, 100-240VAC
- **G3-10AR-B1**  
G3-10A-B1 + touchscreen (RS-232)
- **G3-10AM-B1**  
G3-10A-B1 + Membrane K/B and mouse touch pad
- **G3-12A-B0**  
G-3000 Control Box with Celeron/Coppermine based CPU and 12.1" TFT, LCD(800x600) 250cd/m<sup>2</sup>, 100-240VAC
- **G3-12AR-B0**  
G3-12A-B0 + touchscreen (RS-232)
- **G3-12AM-B0**  
G3-12A-B0 + Membrane K/B and mouse touch pad
- **G3-15A-B0**  
G-3000 Control Box with Celeron/Coppermine based CPU and 15" TFT, LCD(1024x768) 200cd/m<sup>2</sup>, 100-240VAC
- **G3-15AR-B0**  
G3-15A-B0 + touchscreen (RS-232)
- **G3-15AM-B0**  
G3-15A-B0 + Membrane K/B and mouse touch pad

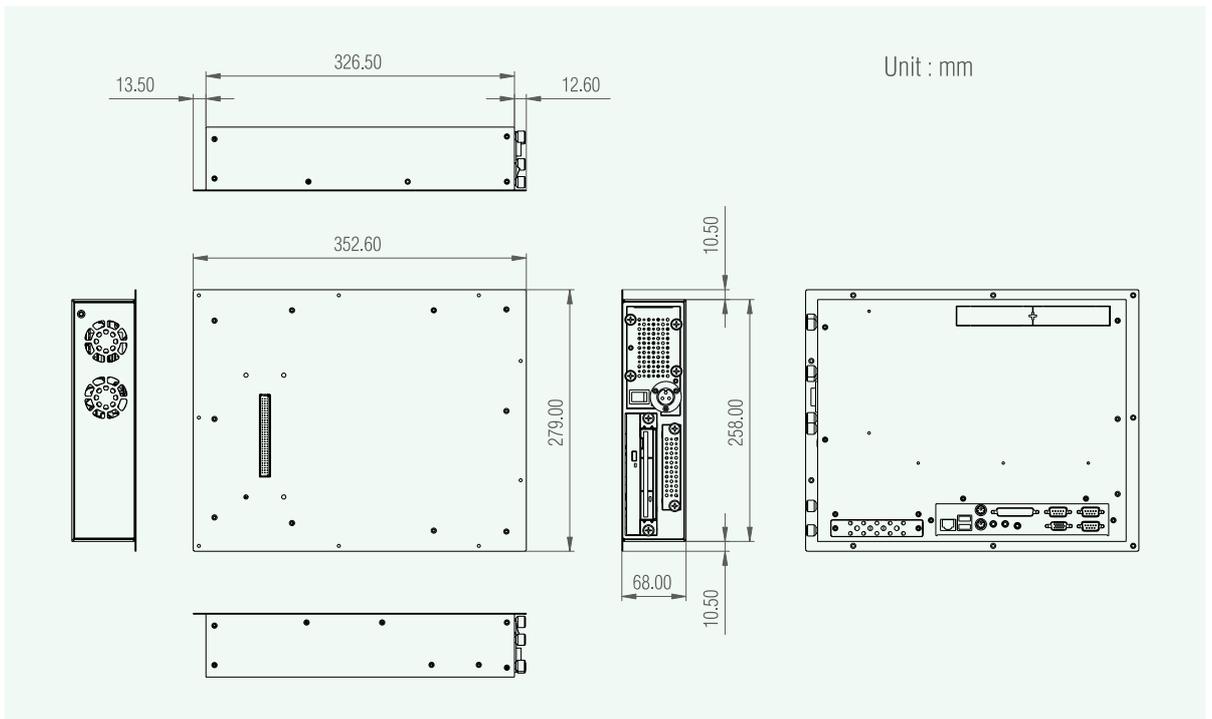
### Dimension/ Weight

Model No.	Dimension (W x H x D)	Weight
G3-10A	391.6 x 318 x 106.5mm (15.4" x 12.5" x 10")	11.3Kg (24.9 lbs)
G3-12A	391.6 x 318 x 106.5mm (15.4" x 12.5" x 10")	11.5 Kg (25.4 lbs)
G3-15A	470 x 360 x 106.5mm (18.5" x 14.2" x 10")	13.4 Kg (29.5 lbs)
G3-10AM	391.6 x 394 x 106.5mm (15.4" x 15.5" x 10")	11.9 Kg (26.2 lbs)
G3-12AM	391.6 x 394 x 106.5mm (15.4" x 15.5" x 10")	12.2 Kg (26.9 lbs)
G3-15AM	470 x 450 x 106.5mm (18.5" x 17.7" x 10")	14.3 Kg (31.5 lbs)

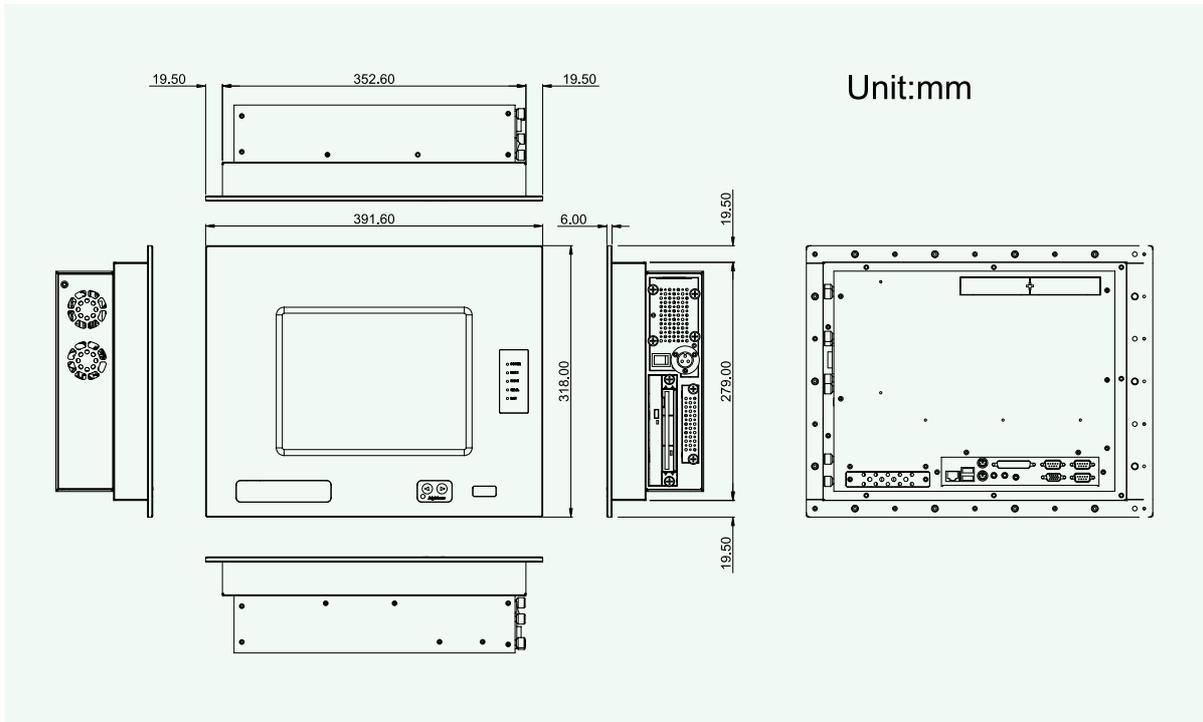
### LCD Specifications

Model	G3-10A/AM-B0	G3-10A/AM-B1	G3-12A/AM	G3-15A/AM
Display type	10.4" color TFT LCD	10.4" color TFT LCD	12.1" color TFT LCD	15" color TFT LCD
Max. Resolution	640 x 480	640 x 480	800 x 600	1024 x 768
Max. Colors	256K	256K	256K	16M
Dot size (mm)	0.33 x 0.33	0.33 x 0.33	0.3075 x 0.3075	0.297 x 0.297
Luminance (cd/m <sup>2</sup> )	200	250	250	200
Viewing angle	90°(H) 50°(V)	140°(H) 110°(V)	110°(H) 90°(V)	160°(H) 160°(V)
Operating temperature	0~ 50°C (32~122°F)	0~ 50°C (32~122°F)	0~ 50°C (32~122°F)	0~ 50°C (32~122°F)
Brightness Control	Yes	Yes	Yes	Yes
LCD MTBF (Hrs)	50,000	50,000	50,000	50,000
Back Light MTBF (Hrs)	20,000	25,000	25,000	25,000

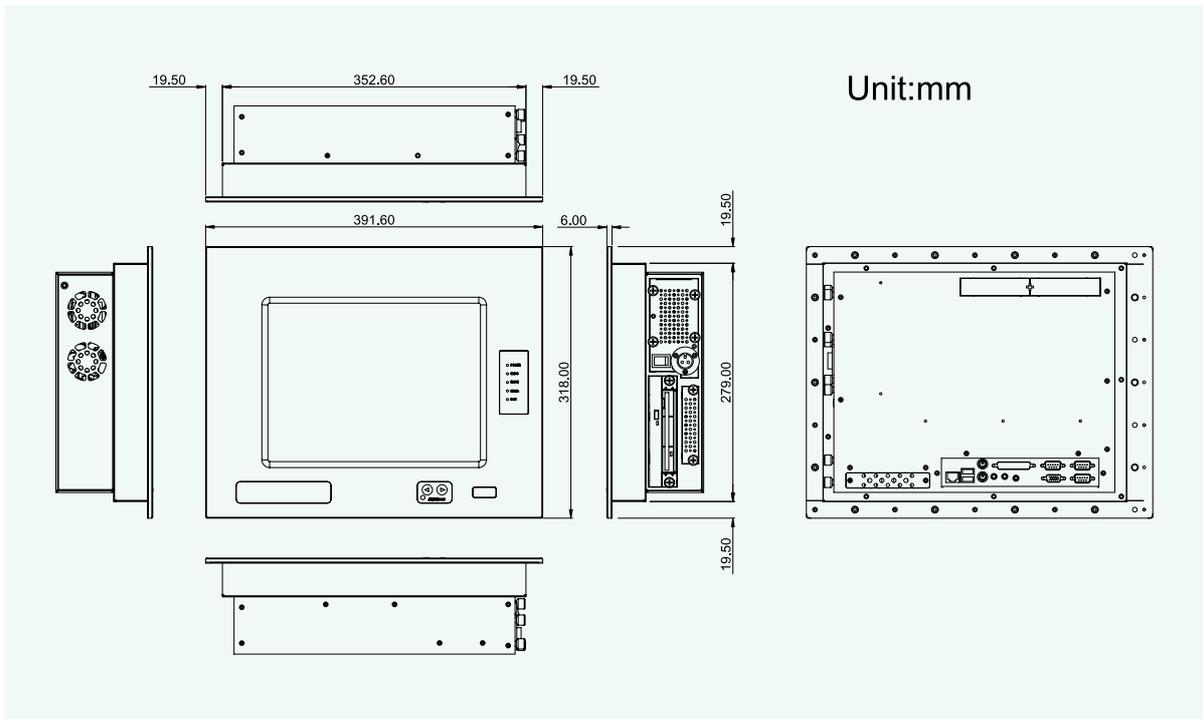
### Dimension



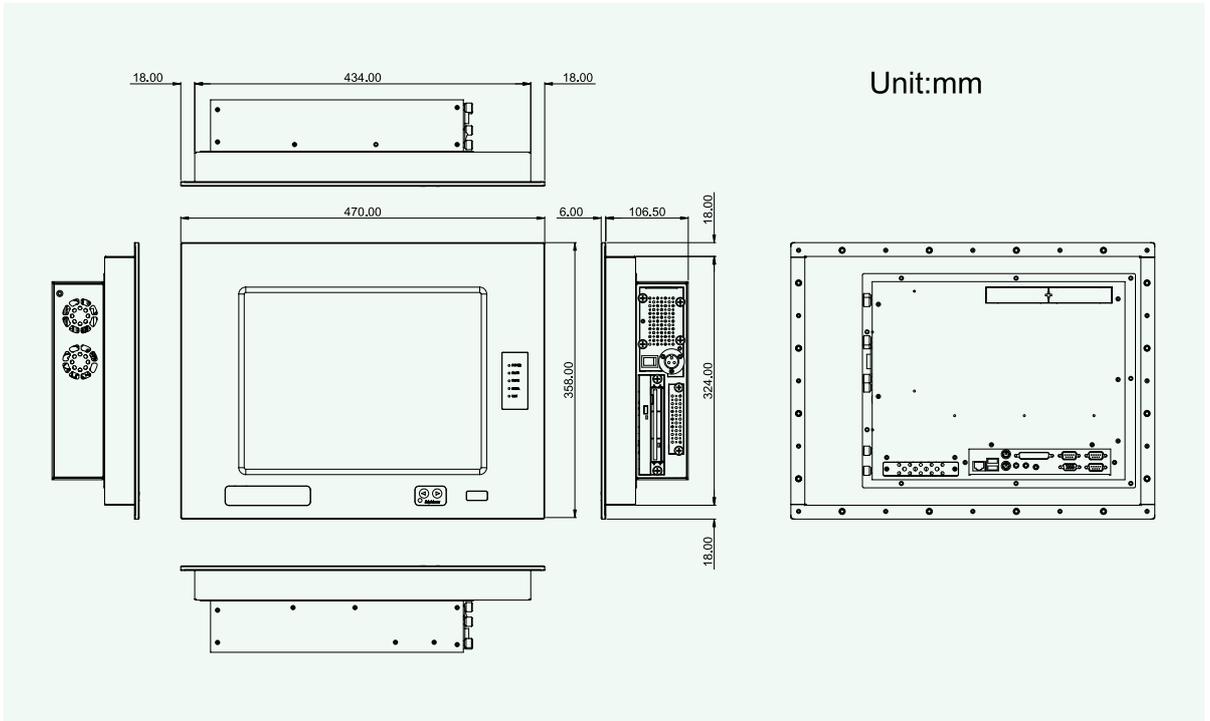
G-3000 Control Box



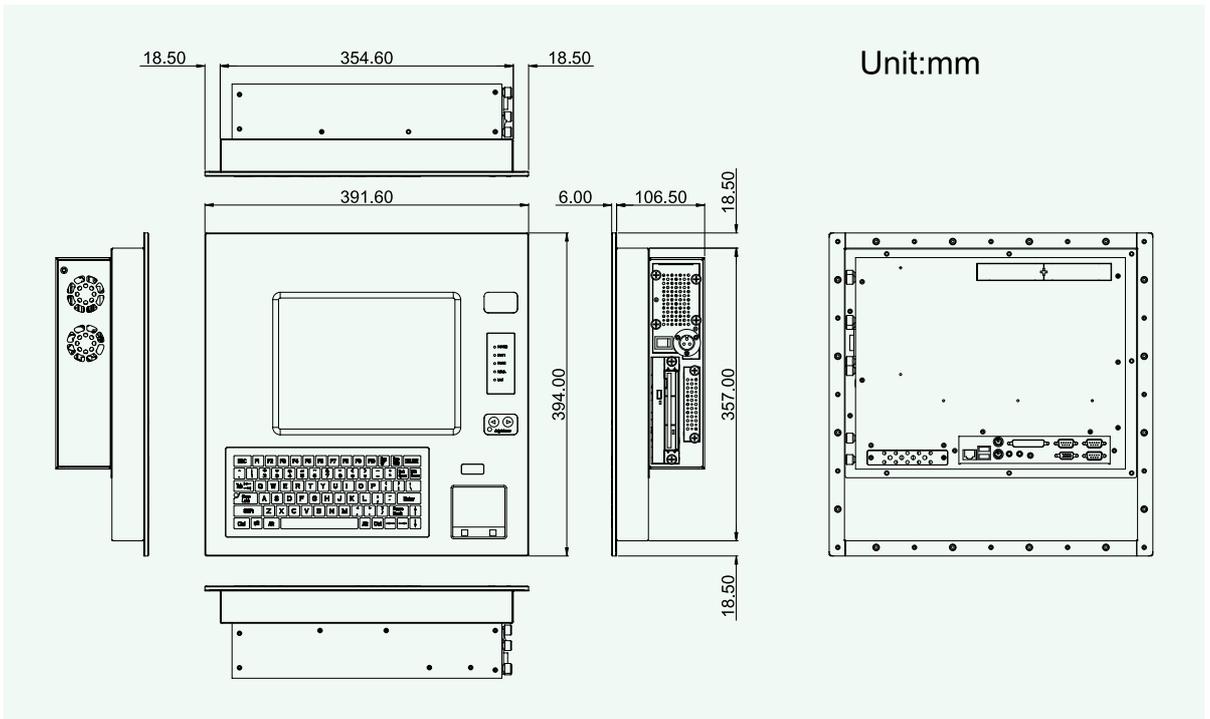
G3-10A



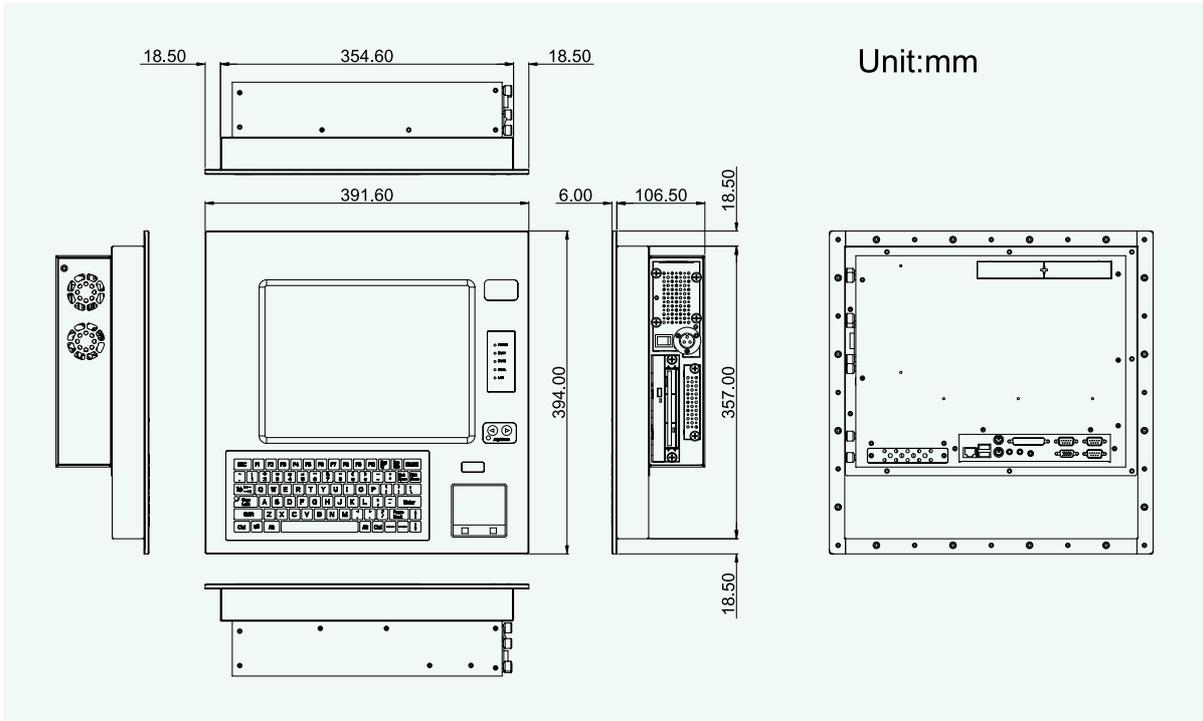
G3-12A



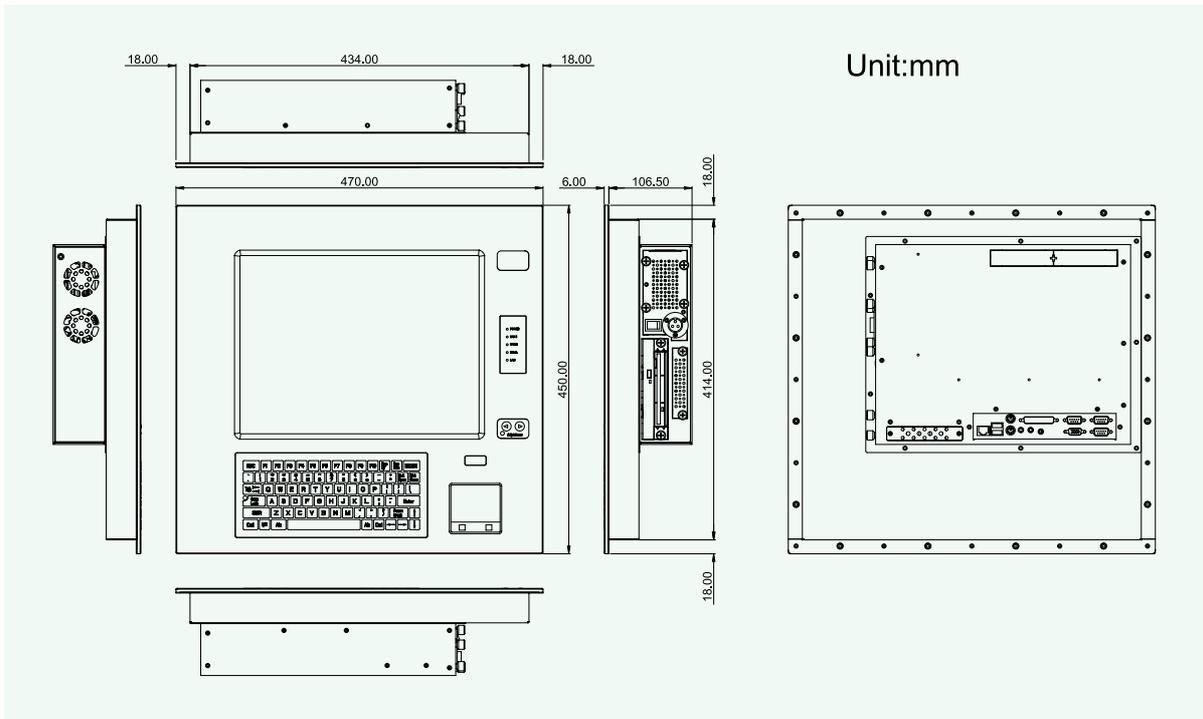
G3-15A



G3-10AM



G3-12AM



G3-15AM