



## Features

- 21.5" Wide screen and Full HD 16: 9 1920x1080
- Support Multi Display : three display by LVDS/HDMI/DP
- 4th Gen Intel Core i5-4402E 1.6GHz processor (Haswell)
- Intel QM87 Chipset
- 2 x 204 Pin DDR3 SO-DIMM, up to 16GB 1066/1333 MHz
- 2 x 2.5" HDD spec support RAID 0,1
- 1 x PCIe x16 slot
- Fanless Design/ Front Panel IP65
- Wide range 12~19V DC input

## Specifications

### System

Processor	4th Gen Intel Core i5-4402E 1.6GHz processor (Haswell)
System Chipset	Intel QM87
System Memory	2 x DDR3 SO-DIMM slot, up to 16GB 1600 MHz

### IO Port

USB	4 x USB 3.0 type A
Serial/Parallel	2 x RS-RS-232/422/485 selectable default RS-232 DB9 (COM1/COM2) 1 x RS-232 DB9 (COM3 for Option)
Audio	1 x MIC-in, Line-out phone jack
Graph	1 x VGA
LAN	2 x GbE RJ-45
Digital I/O	1 x 8 pin 3in/out/VCC/GND terminal block connector for option
KB/MS	None
DisplayPort	2 x DisplayPort
Power	1 x 3pin DC power connector 1 x Rocker switch for power on/off for option 2 x LED light for power and HDD indication

### Storage Space

HDD	2 x 2.5" SATA2 (Support RAID 0,1) /Easily accessible design
Movable device	1 x mSATA slot (Full size) 1 x External CF slot for option 1 x slim DVD RW for option

### Expansion

On board expansion bus	1 x Mini PCIe full size
Expansion slot	1 x PCIe x 16 slot default

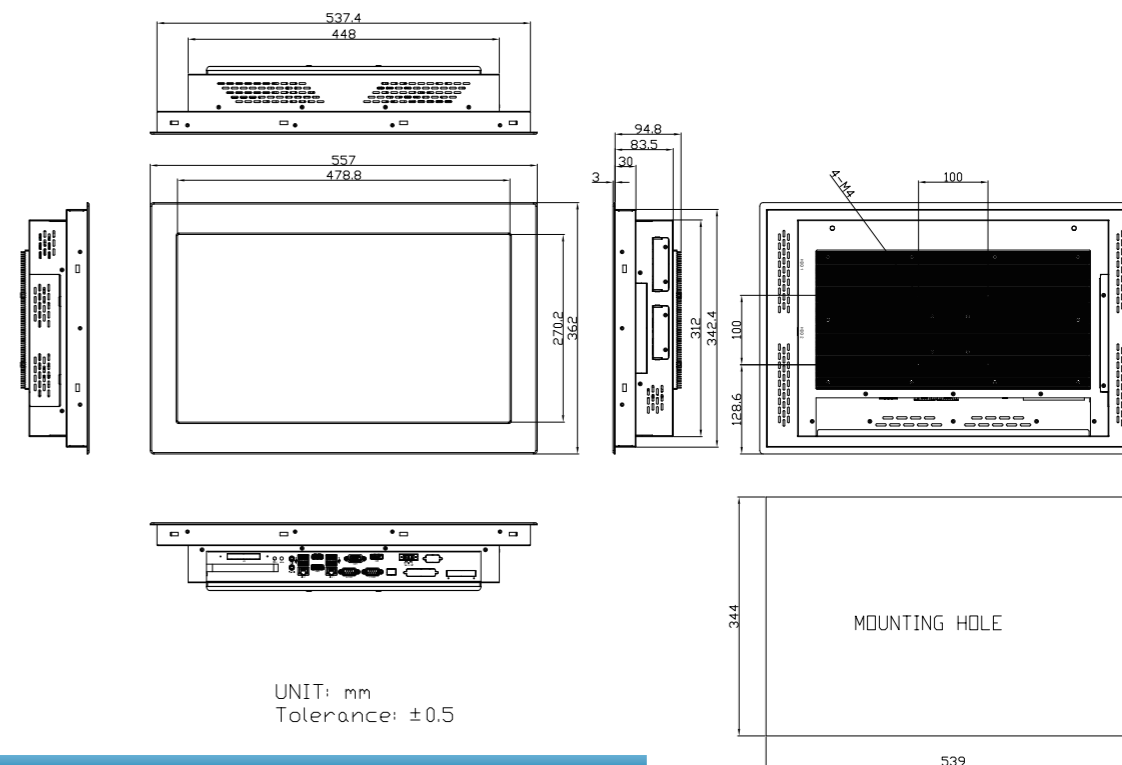
### Display

Display Type	21.5" TFT-LCD
Max. Resolution	1920 x1080
Max. Color	16.7M
Luminance (cd/m <sup>2</sup> )	250
View Angle	178/178
Backlight Lifetime	50,000

### Touch Screen

Type	Projected capacitive Option / Resistive option
Interface	USB / RS-232
Light transmission (%)	90% (PCT) / 80% (RT)

## Dimensions



### Power

Power input	DC 11~32V
Power Consumption	Max:58W

### Mechanical

Construction	Black steel front bezel, black steel back cover with aluminum heat-sink Aluminum and stainless front bezel for option
IP Rating	IP65
Mounting	Panel Mount/ VESA100x100
Dimension	557 x 362 x 95
Net Weight	15.0 kg

### Environmental

Operating temperature(°C)	0~50
Storage temperature(°C)	-30~70
Storage humidity	10 to 90% @ 40°C, non- condensing
Certification	CE/FCC class A

### Operating System Support

Microsoft Windows 7 pro for embedded, Windows embedded standard 7  
Windows Embedded Enterprise 8, Windows Embedded Standard 8

### Ordering Information

APC-3229AT-01	21.5" Full HD, 4th Gen. Intel Core i5-4402E 1.6GHz with Intel QM87 chipset, fanless design panel PC , 4GB DDR3 memory, 320GB SATA 2 HDD, 1 X PCIe X16 slot, resistive touch, 11~32V DC power input with adaptor, black steel enclosure.
APC-3229AT-02	21.5" Full HD, 4th Gen. Intel Core i5-4402E 1.6GHz with Intel QM87 chipset, fanless design panel PC , 4GB DDR3 memory, 320GB SATA 2 HDD, 1 X PCIe X16 slot, Projected capacitive touch, 11~32V DC power input with adaptor, Aluminum front bezel and black steel enclosure.

