

# VIO-119/PC311P

19" SXGA Resistive / Capacitive Touch Panel PC with Intel® Core™ i5/i3 or Celeron® Processor, 1x PCI Expansion

## FEATURES

- 19" TFT SXGA 4:3 LCD with resistive 5-wire / projected capacitive touch
- Intel® Core™ processor i5-5350U, up to 2.9GHz / i3-5010U, 2.1GHz or Celeron® 3765U, 1.9GHz
- 1x 204-pin DDR3L SODIMM. max up to 8GB
- 1x 2.5" SATA HDD bay support RAID 0,1, 5, 2x mSATA, 2x SIM socket
- 2x full-size mini PCIe for communication or expansion modules
- 1x PCI expansion
- 2x LAN, 1x VGA, 1x DisplayPort
- 4x RS-232/422/485 (w/ 2x internal), 3x USB 3.0, 1x USB 2.0, Audio, DIO
- 9 to 48VDC wide range power input
- -10°C to 50°C extended operating temperature
- Designed with aluminum die-casting front Frame
- IP65 compliant front panel
- Two 10W internal speakers built-in
- Multi-language OSD built-in



## SPECIFICATIONS

### DISPLAY

|                     |                           |
|---------------------|---------------------------|
| LCD Size            | 19" (4:3)                 |
| Max. Resolution     | 1280 x 1024 (SXGA)        |
| Brightness (cd/m²)  | 350                       |
| Contrast Ratio      | 1000:1                    |
| LCD Color           | 16.7M                     |
| Pixel Pitch (mm)    | 0.294 (H) x 0.294 (V)     |
| Viewing Angle (H-V) | 170 / 160                 |
| Backlight MTBF      | 50000 hrs (LED Backlight) |

### TOUCH

|                      |                      |
|----------------------|----------------------|
| Resistive 5-wire     | VIO-119R/PC311P Only |
| Projected Capacitive | VIO-119C/PC311P Only |

### SYSTEM

|                |                                                                                                                                                                                                                                                                            |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor      | - 5 <sup>th</sup> Gen Intel® Core™ i5-5350U Processor, Dual Core, 3MB Cache, up to 2.9 GHz<br>- 5 <sup>th</sup> Gen Intel® Core™ i3-5010U Processor, Dual Core, 3MB Cache, 2.1 GHz<br>- 5 <sup>th</sup> Gen Intel® Celeron® Processor 3765U, Dual Core, 2MB Cache, 1.9 GHz |
| System Chipset | SoC integrated                                                                                                                                                                                                                                                             |
| LAN Chipset    | GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE)<br>GbE2: Intel® I218-LM (Support Wake-on-LAN and PXE)                                                                                                                                                                   |
| Audio Codec    | Realtek ALC888S                                                                                                                                                                                                                                                            |
| System Memory  | 1x 204-Pin DDR3L 1333/1600MHz SODIMM. Max. up to 8GB                                                                                                                                                                                                                       |
| BIOS           | AMI 128Mbit SPI BIOS                                                                                                                                                                                                                                                       |
| Watchdog       | Software Programmable Supports 1~255 sec. System Reset                                                                                                                                                                                                                     |

### STORAGE

|            |                                                     |
|------------|-----------------------------------------------------|
| SSD/HDD    | 1x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5 |
| mSATA      | 2x mSATA (Shared by 2x Mini PCIe)                   |
| SIM Socket | 2x External SIM socket                              |

### EXPANSION

|                  |                        |
|------------------|------------------------|
| Mini PCI Express | 2x Full-size Mini PCIe |
| PCI              | 1x PCI                 |

### OTHER FEATURES

|                  |                                                    |
|------------------|----------------------------------------------------|
| Internal Speaker | AMP 10W + 10W                                      |
| OSD              | LCD On/Off, Auto, Menu, Up and Down Multi-language |

### I/O

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| VGA                   | 1x VGA (or 1x DVI-D by Order)                                                         |
| DisplayPort           | 1x DisplayPort                                                                        |
| COM                   | 2x RS-232/422/485<br>2x RS-232/422/485 (internal)                                     |
| USB                   | 3x USB 3.0, 1x USB 2.0                                                                |
| LAN                   | 2x RJ45                                                                               |
| Audio                 | 1x Mic-in, 1x Speaker-out                                                             |
| DIO                   | 4 in / 4 out (Isolated)                                                               |
| Universal I/O Bracket | 1x Universal I/O Bracket (By mini PCIe interface)                                     |
| Others                | 3x WiFi Antenna Holes<br>1x Power Switch, 1x AT/ATX Switch,<br>1x Remote Power On/Off |

### OPERATING SYSTEM

|         |                                                  |
|---------|--------------------------------------------------|
| Windows | Windows 10, Windows 8.1, WES8.1, Windows 7, WES7 |
| Linux   | Linux kernel 3.X                                 |

### POWER

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Power Mode             | AT, ATX                                                                              |
| Power Supply Voltage   | 9~48VDC                                                                              |
| Power Ignition Sensing | Power Ignition Management                                                            |
| Power Connector        | 3-pin Terminal Block                                                                 |
| Power Adaptor          | Optional AC/DC 12V/5A, 60W                                                           |
| Power Protection       | OVP (Over Voltage Protection)<br>OCP (Over Current Protection)<br>Reverse Protection |

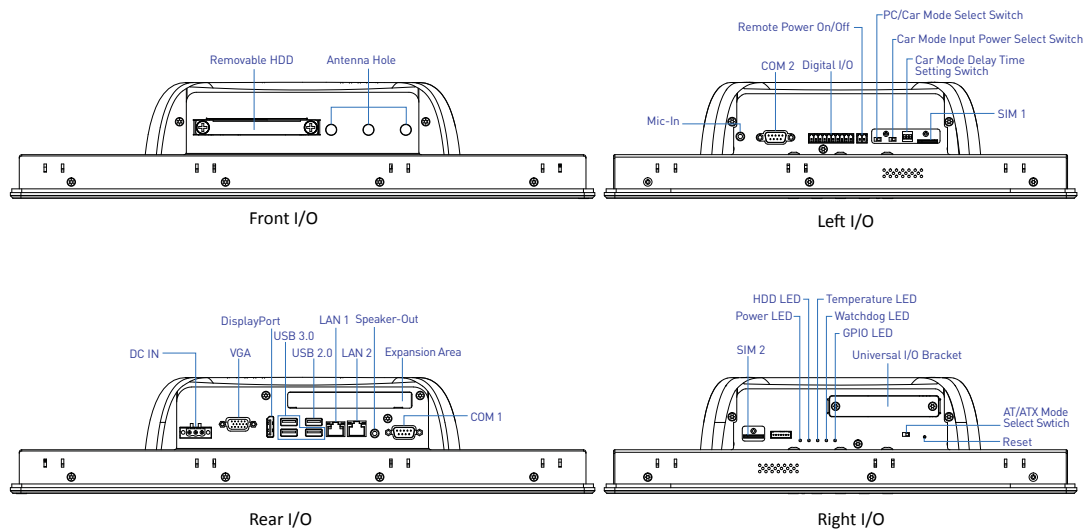
### ENVIRONMENT

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Operating Temp.           | -10°C to 50°C                                                                            |
| Storage Temp.             | -20°C to 60°C                                                                            |
| Relative Humidity         | 10%~80% (non-condensing)                                                                 |
| IP Level                  | IP 65 Compliant Front Panel                                                              |
| Vibration                 | With SSD: 1.5 Grms, 5 - 500 Hz, 0.5 hr/axis<br>With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis |
| Shock                     | 20G, half sine, 11ms                                                                     |
| Standards / Certification | CE, FCC Class A                                                                          |

### PHYSICAL

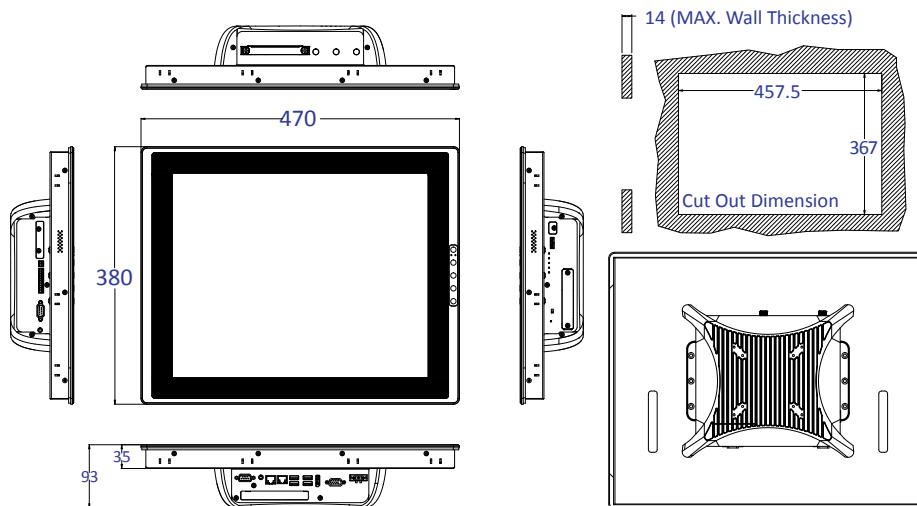
|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Front Panel Construction | Die-cast Flat Surface                                |
| Dimension                | 470 (W) x 380 (D) x 93 (H)mm                         |
| Weight                   | VIO-119R/PC311P: 8.47 kg<br>VIO-119C/PC311P: 8.40 kg |
| Mounting                 | VESA Mounting Holes<br>75 x 75mm, 100 x 100mm        |

## EXTERNAL I/O MECHANICAL LAYOUT



## DIMENSION

Unit: mm



## AVAILABLE MODELS

| MODEL NO.             | DESCRIPTION                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------|
| VIO-119R/PC311P-5350U | 19" SXGA Resistive Touch Panel PC with Intel® i5-5350U Processor, 1x PCI Expansion        |
| VIO-119C/PC311P-5350U | 19" SXGA Capacitive Touch Panel PC with Intel® i5-5350U Processor, 1x PCI Expansion       |
| VIO-119R/PC311P-5010U | 19" SXGA Resistive Touch Panel PC with Intel® i3-5010U Processor, 1x PCI Expansion        |
| VIO-119C/PC311P-5010U | 19" SXGA Capacitive Touch Panel PC with Intel® i3-5010U Processor, 1x PCI Expansion       |
| VIO-119R/PC311P-3765U | 19" SXGA Resistive Touch Panel PC with Intel® Celeron® 3765U Processor, 1x PCI Expansion  |
| VIO-119C/PC311P-3765U | 19" SXGA Capacitive Touch Panel PC with Intel® Celeron® 3765U Processor, 1x PCI Expansion |

## OPTIONAL ACCESSORIES

| MODEL NO.   | DESCRIPTION                                                        |
|-------------|--------------------------------------------------------------------|
| 1-E09A06007 | Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch |
| SFICBL022   | Power Cord, 3-pin US Type, 180cm                                   |
| 1-TPCD00002 | Power Cord, European Type, 180cm                                   |
| 1-TPCD00001 | Power Cord, 3-pin UK Type, 180cm                                   |

## PACKING LIST

- 1x VIO-119/PC300 Series Panel PC
- 14x Panel Mount Kit
- 1x Utility DVD Driver
- 1x Screw Pack