



## FEATURES

- 17" TFT SXGA 4:3 LCD with resistive 5-wire / projected capacitive touch
- Intel® 7<sup>th</sup> Gen (Kaby Lake-U) Processor Core™ i5-7300U, Core™ i3-7100U
- 1x 260-pin DDR4 SODIMM. max up to 16GB
- 1x 2.5" SATA HDD bay support RAID 0, 1
- 1x mSATA (shared by 1x Mini PCIe),  
1x CFast (shared by 1x mSATA), 2x SIM socket
- 2x full-size mini PCIe for communication or expansion modules
- 2x LAN, 1x VGA, 1x DisplayPort, 1x Dual Channel 24 bit LVDS
- 4x RS-232/422/485, 4x USB 3.0, Audio
- 8x DI + 8x DO with isolation
- 2x Universal I/O Bracket for Expansion (VIO-117/PC410 only)
- 9 to 50VDC wide range power input
- -10°C to 60°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

## Display

|                     |                           |
|---------------------|---------------------------|
| LCD Size            | 17" [4:3]                 |
| Max. Resolution     | 1280 x 1024 (SXGA)        |
| Brightness (cd/m2)  | 350                       |
| Contrast Ratio      | 800:1                     |
| LCD Color           | 16.7M                     |
| Pixel Pitch (mm)    | 0.264 (H) x 0.264 (V)     |
| Viewing Angle (H-V) | 170 / 160                 |
| Backlight MTBF      | 50000 hrs (LED Backlight) |

## Touch

|                      |                                |
|----------------------|--------------------------------|
| Resistive 5-wire     | VIO-117R/PC400, VIO-117R/PC410 |
| Projected Capacitive | VIO-117C/PC400, VIO-117C/PC410 |

## System

|                |                                                                                                                                                                                      |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor      | 7 <sup>th</sup> Gen Intel® Core™ i5-7300U Processor,<br>Dual Core, 3MB Cache, up to 3.5 GHz<br>7 <sup>th</sup> Gen Intel® Core™ i3-7100U Processor,<br>Dual Core, 3MB Cache, 2.4 GHz |
| System Chipset | SoC integrated                                                                                                                                                                       |
| LAN Chipset    | GbE1: Intel® I219LM (Support Wake-on-LAN and PXE)<br>GbE2: Intel® I210-AT (Support Wake-on-LAN and PXE)                                                                              |
| Audio Codec    | Realtek ALC888S                                                                                                                                                                      |
| System Memory  | 1x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 16GB                                                                                                                                 |
| BIOS           | AMI 128Mbit SPI BIOS                                                                                                                                                                 |
| Watchdog       | Software Programmable Supports 1~255 sec. System Reset                                                                                                                               |

## Storage

|            |                                                     |
|------------|-----------------------------------------------------|
| SSD/HDD    | 1x Removable 2.5" SATA HDD Bay<br>Support RAID 0, 1 |
| mSATA      | 1x mSATA (shared by 1x Mini PCIe)                   |
| CFast      | 1x CFast (shared by 1x mSATA)                       |
| SIM Socket | 2x External SIM socket                              |

## Expansion

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

## I/O

|             |                                                                        |
|-------------|------------------------------------------------------------------------|
| VGA         | 1x VGA                                                                 |
| DisplayPort | 1x DisplayPort                                                         |
| LVDS        | 1x Dual Channel 24 bit LVDS                                            |
| COM         | 4x RS-232/422/485<br>2x RS-232/422/485 (internal) (VIO-117/PC410 only) |
| USB         | 4x USB 3.0                                                             |

|                       |                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| LAN                   | 2x RJ45                                                                                                                                               |
| Audio                 | 1x Mic-in, 1x Line-out                                                                                                                                |
| DIO                   | 8 in / 8 out (Isolated)                                                                                                                               |
| Universal I/O Bracket | 2x Universal I/O Bracket for Expansion (VIO-117/PC410 only)                                                                                           |
| Others                | 3x WiFi Antenna Holes (VIO-117-PC400 only)<br>4x WiFi Antenna Holes (VIO-117-PC410 only)<br>1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off |

## Other Features

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

## Operating System

|         |                  |
|---------|------------------|
| Windows | Windows 10       |
| Linux   | Linux kernel 4.X |

## Power

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Power Mode             | AT, ATX                                                                              |
| Power Supply Voltage   | 9~50VDC                                                                              |
| 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

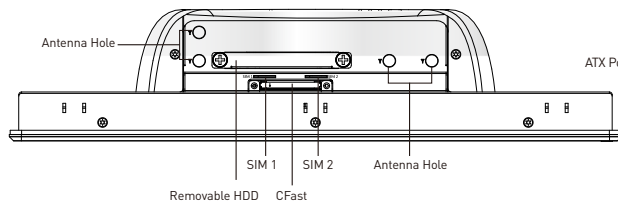
|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| Operating Temp.           | -10°C to 60°C                                                                            |
| Storage Temp.             | -20°C to 70°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

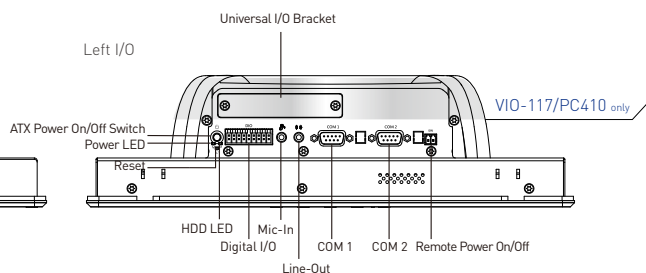
|                          |                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------|
| Front Panel Construction | Die-cast Flat Surface                                                                                |
| Dimension                | VIO-117/PC400: 431.5 (W) x 344 (D) x 70.5 (H) mm<br>VIO-117/PC410: 431.5 (W) x 344 (D) x 92.5 (H) mm |
| Weight                   | VIO-117/PC400: 7.23 ~ 7.27 kg<br>VIO-117/PC410: 7.42 ~ 7.46 kg                                       |
| Mounting                 | VESA Mounting Holes 75 x 75mm, 100 x 100mm                                                           |

## EXTERNAL I/O MECHANICAL LAYOUT

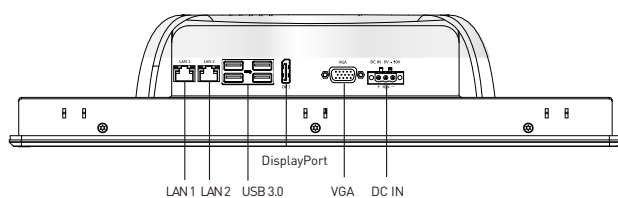
Front I/O



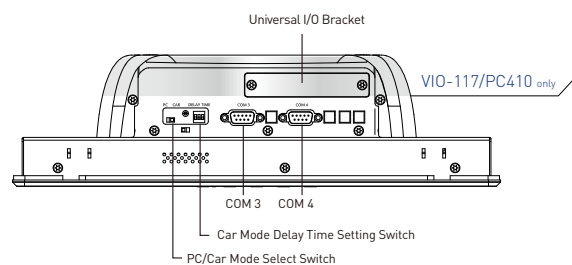
Left I/O



Rear I/O

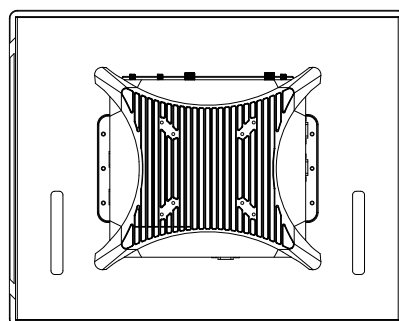
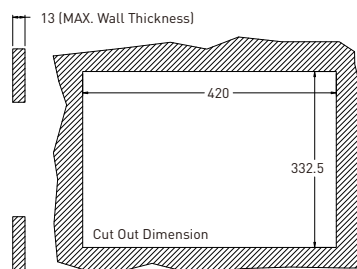
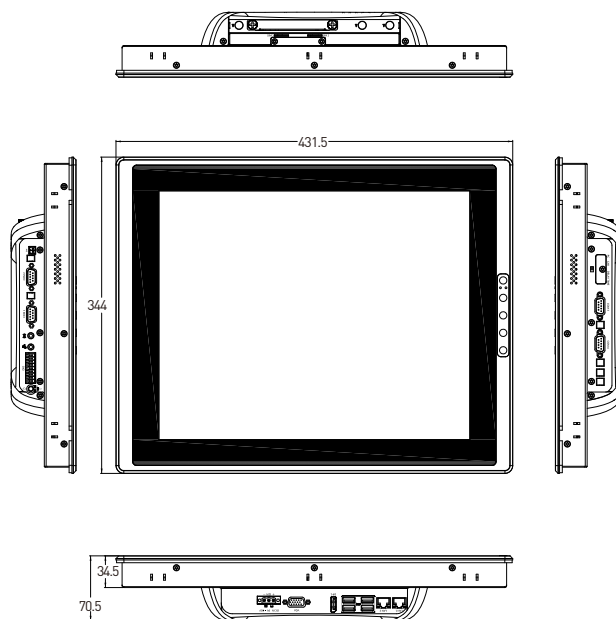


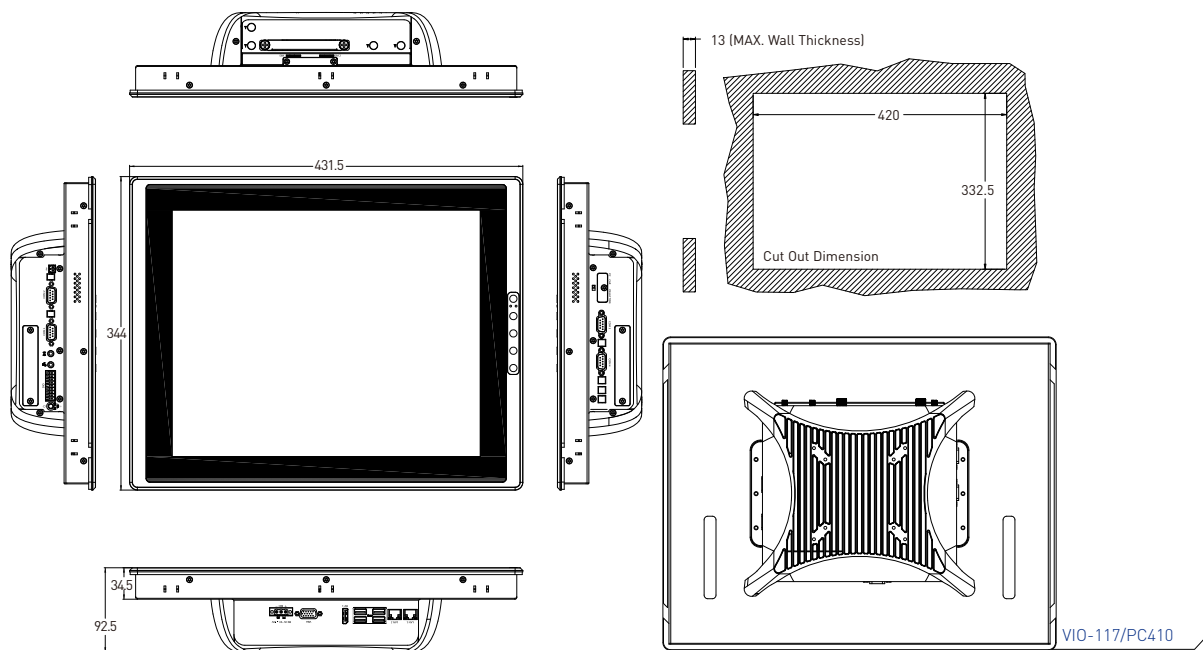
Right I/O



## DIMENSION

Unit: mm





## ORDERING INFORMATION

### 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                                          |
| 1-TPCD00001 | Power Cord, 3-pin UK Type, 180cm                                   |
| 3-DINR-0003 | DIN-Rail Mount Kit                                                 |

## PACKING LIST

- 1x VIO-117/PC400 Series Panel PC
- 10x Panel Mount Kit
- 1x Utility DVD Driver
- 1x Screw Pack

## AVAILABLE MODELS

| MODEL         | MODEL NO.            | DESCRIPTION                                                                                       |
|---------------|----------------------|---------------------------------------------------------------------------------------------------|
| VIO-117/PC400 | VIO-117R/PC400-7300U | 17" SXGA Resistive Touch Panel PC with Intel® Core™ i5-7300U Processor                            |
|               | VIO-117C/PC400-7300U | 17" SXGA Capacitive Touch Panel PC with Intel® Core™ i5-7300U Processor                           |
|               | VIO-117R/PC400-7100U | 17" SXGA Resistive Touch Panel PC with Intel® Core™ i3-7100U Processor                            |
|               | VIO-117C/PC400-7100U | 17" SXGA Capacitive Touch Panel PC with Intel® Core™ i3-7100U Processor                           |
|               | VIO-117R/PC410-7300U | 17" SXGA Resistive Touch Panel PC with Intel® Core™ i5-7300U Processor, 2x Universal I/O Bracket  |
|               | VIO-117C/PC410-7300U | 17" SXGA Capacitive Touch Panel PC with Intel® Core™ i5-7300U Processor, 2x Universal I/O Bracket |
|               | VIO-117R/PC410-7100U | 17" SXGA Resistive Touch Panel PC with Intel® Core™ i3-7100U Processor, 2x Universal I/O Bracket  |
|               | VIO-117C/PC410-7100U | 17" SXGA Capacitive Touch Panel PC with Intel® Core™ i3-7100U Processor, 2x Universal I/O Bracket |