



# VIO-315-PC100-ASL

15" XGA IP65 Industrial Touchscreen Computer with Intel Atom® Processor, 1x DP, 3x USB, 2x LAN, 4x COM



## Features

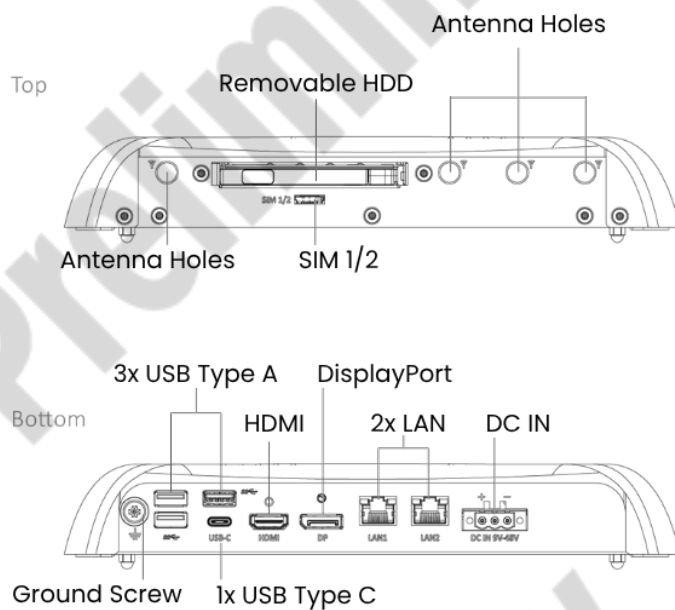
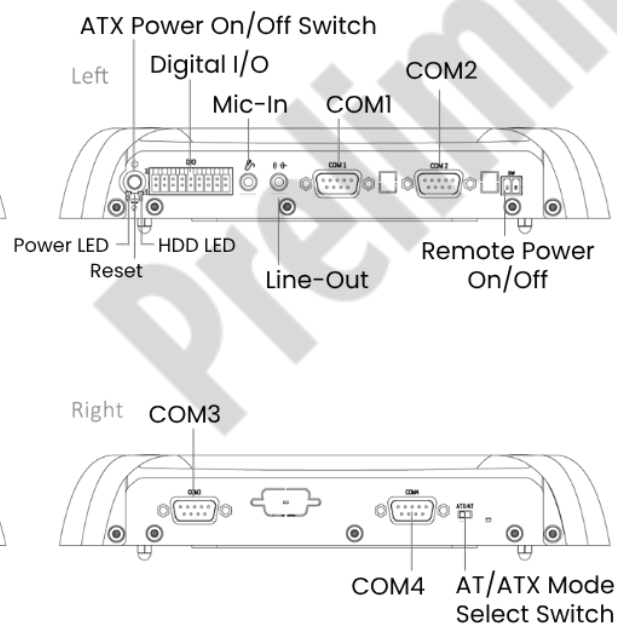
- 15" TFT XGA 4:3 LCD with projected capacitive touch / projected capacitive touch
- Intel Atom® x7433RE / x7835RE Processor
- 1x DDR5 4800 MT/s SODIMM. max up to 16GB
- 1x 2.5" Hot-Swappable SATA SSD
- 2x RJ45 LAN, 1x DisplayPort, 1x HDMI
- 2x USB 3.2 Gen 2, 1x USB 3.2 Gen 1, 1x USB-C 3.2 Gen 1
- 8x DI + 8x DO, 4x RS-232/422/485
- 9 to 36VDC wide range power input
- 0°C to 50°C operating temperature
- IP65 compliant front panel

## Specifications

| Display                                                                       |                                                                                                                        |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| IP Rating                                                                     | IP65                                                                                                                   |
| LCD Size                                                                      | 15" (4:3)                                                                                                              |
| Max. Resolution                                                               | 1024 x 768 (XGA)                                                                                                       |
| Brightness (cd/m <sup>2</sup> )                                               | 400 / 1000 (optional)                                                                                                  |
| Contrast Ratio                                                                | 1000:1                                                                                                                 |
| LCD Color                                                                     | 16.7M                                                                                                                  |
| Pixel Pitch (mm)                                                              | 0.297(H) x 0.297(V)                                                                                                    |
| Viewing Angle                                                                 | 170/160                                                                                                                |
| Backlight Lifetime                                                            | 50,000 hrs (LED Backlight)                                                                                             |
| Touch                                                                         |                                                                                                                        |
| Touch Type                                                                    | Projective Capacitive                                                                                                  |
|                                                                               | Resistive 5-Wire (optional)                                                                                            |
| Surface Hardness                                                              | 7H / IK07                                                                                                              |
| System                                                                        |                                                                                                                        |
| Processor                                                                     |                                                                                                                        |
| Intel Atom® x7433RE Processor 6M Cache, up to 3.40 GHz, 4 cores, 9W (Default) |                                                                                                                        |
| Intel Atom® x7835RE Processor 6M Cache, up to 3.60 GHz, 8 cores, 12W          |                                                                                                                        |
| System Chipset                                                                | SoC Integrated                                                                                                         |
| LAN Chipset                                                                   | GbE1: Intel® i226 IT 2.5GbE (Support Wake-on-LAN and PXE)<br>GbE2: Intel® i226 IT 2.5GbE (Support Wake-on-LAN and PXE) |
| Audio Codec                                                                   | Realtek ALC888S                                                                                                        |
| System Memory                                                                 | 1x DDR5 4800 MT/s SODIMM. Max. up to 16GB                                                                              |
| BIOS                                                                          | AMI 64Mbit SPI BIOS                                                                                                    |
| Watchdog                                                                      | Software Programmable Supports 1~255 sec. System Reset                                                                 |
| TPM                                                                           | dTPM2.0                                                                                                                |
| Storage                                                                       |                                                                                                                        |
| SIM Socket                                                                    | 1x Dual Nano SIM socket                                                                                                |
| SSD/HDD                                                                       | 1x Hotswap 2.5" SATA HDD Bay                                                                                           |
| Expansion                                                                     |                                                                                                                        |
| M.2                                                                           | 2x M.2 B-Key PCIe x2, USB 3.0 2242/3042/3052<br>1x M.2 E-Key PCIe x1, USB 2.0 2230                                     |
| PCIe                                                                          | 1x PCIe Gen 3 x1 Slot (x4 Connector, Shared with M.2 B-Key #2; 1E Model Only)                                          |
| I/O                                                                           |                                                                                                                        |
| Audio                                                                         | 1x Mic-in, 1x Line-out                                                                                                 |
| CAN                                                                           | 2x CAN 2.0 A/B 2-pin Header (Internal)                                                                                 |
| COM                                                                           | 4x RS-232/422/485<br>2x RS-232/422/485 (internal)                                                                      |
| DIO                                                                           | 8 in / 8 out (Isolated)                                                                                                |
| LAN                                                                           | 2x RJ45                                                                                                                |
| USB                                                                           | 1x USB 3.2 Gen 2 (10 Gbps)<br>1x USB 3.2 Gen 2 (Type C)<br>1x USB 3.2 Gen 1 (5 Gbps)<br>1x USB 2.0                     |
| DP                                                                            | 1x DisplayPort (4096 x 2160@60Hz)                                                                                      |
| HDMI                                                                          | 1x HDMI 1.4b (3840 x 2160@30Hz)                                                                                        |
| Others                                                                        | 4x WiFi Antenna Holes<br>1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off                                     |
| Others Features                                                               | Others Features                                                                                                        |
| OSD                                                                           | LCD On/Off, Auto, Menu, Up and Down Multi-language                                                                     |
| Speaker                                                                       | 2x 2w 8ohm                                                                                                             |
| Operating System                                                              |                                                                                                                        |
| Windows                                                                       | Windows 10/11 IoT Enterprise LTSC (64-bit)                                                                             |
| Linux                                                                         | Ubuntu 22.04 / 24.04 LTS,<br>Linux 5.x / 6.x                                                                           |

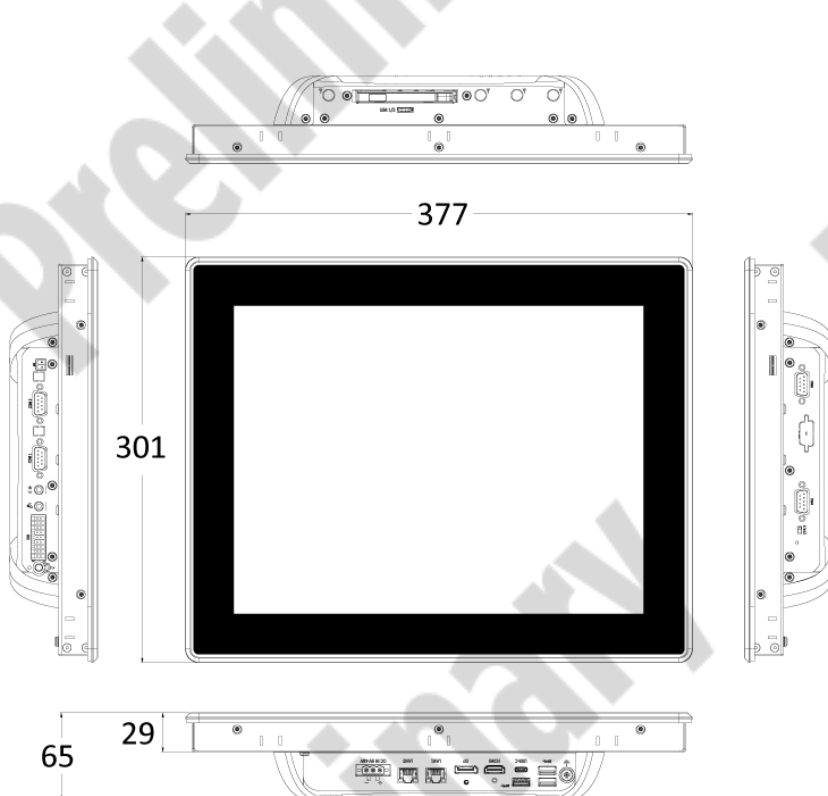
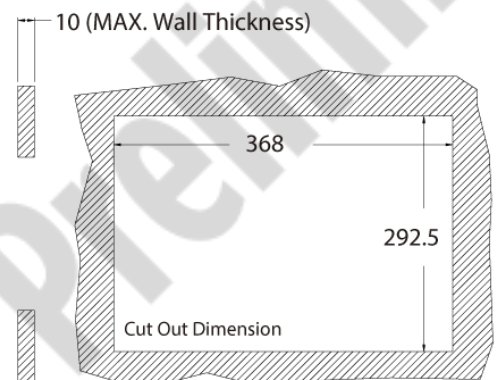
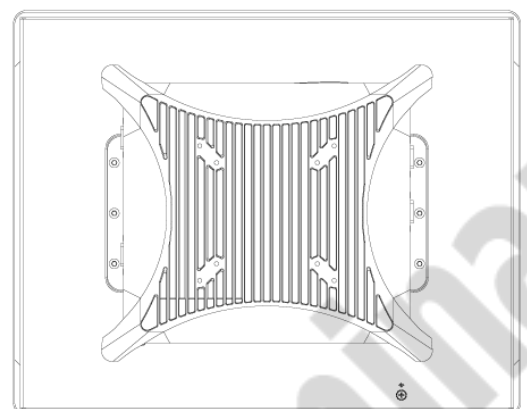
| Power                 |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Power Adapter         | Optional AC/DC 12V/5A, 60W                                                                                         |
| Power Mode            | AT, ATX                                                                                                            |
| Power Supply Voltage  | 9~36 VDC                                                                                                           |
| Power Connector       | 3-Pin Terminal Block                                                                                               |
| Power Protection      | OVP (Over Voltage Protection)<br>OCP (Over Current Protection)<br>Reverse Protection<br>Surge Protection (DC mode) |
| Environment           |                                                                                                                    |
| Operating Temperature | 0 °C to 50 °C                                                                                                      |
| Storage Temperature   | -20 °C to 70°C                                                                                                     |
| Relative Humidity     | 10%~95% (non-condensing)                                                                                           |
| IP Level              | IP 65 Compliant Front Panel                                                                                        |
| Certification         | UL 62368-1 Ed. 3., CE, FCC Class B                                                                                 |
| Vibration             | With SSD: 3 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                                                                                               |
| Physical              |                                                                                                                    |
| Dimensions            | VIO-315-PC100-ASL: 377 (W) x 301 (D) x 65 (H) mm<br>VIO-315-PC100-ASL-1E: 377 (W) x 301 (D) x 87 (H) mm            |
| Construction          | Extruded Aluminum with Heavy Duty Metal                                                                            |
| Mounting              | VESA Mounting Holes 75 x 75mm, 100 x 100mm                                                                         |

External I/O Mechanical Layout

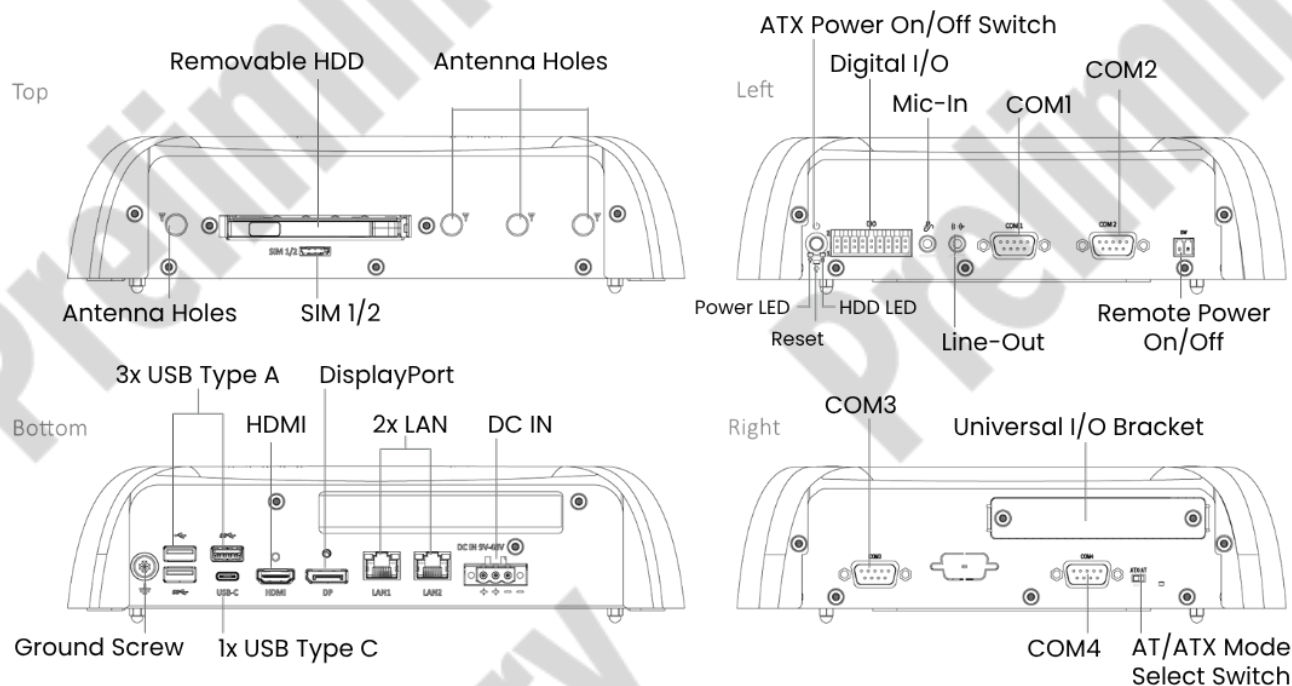


Dimension

Unit: mm

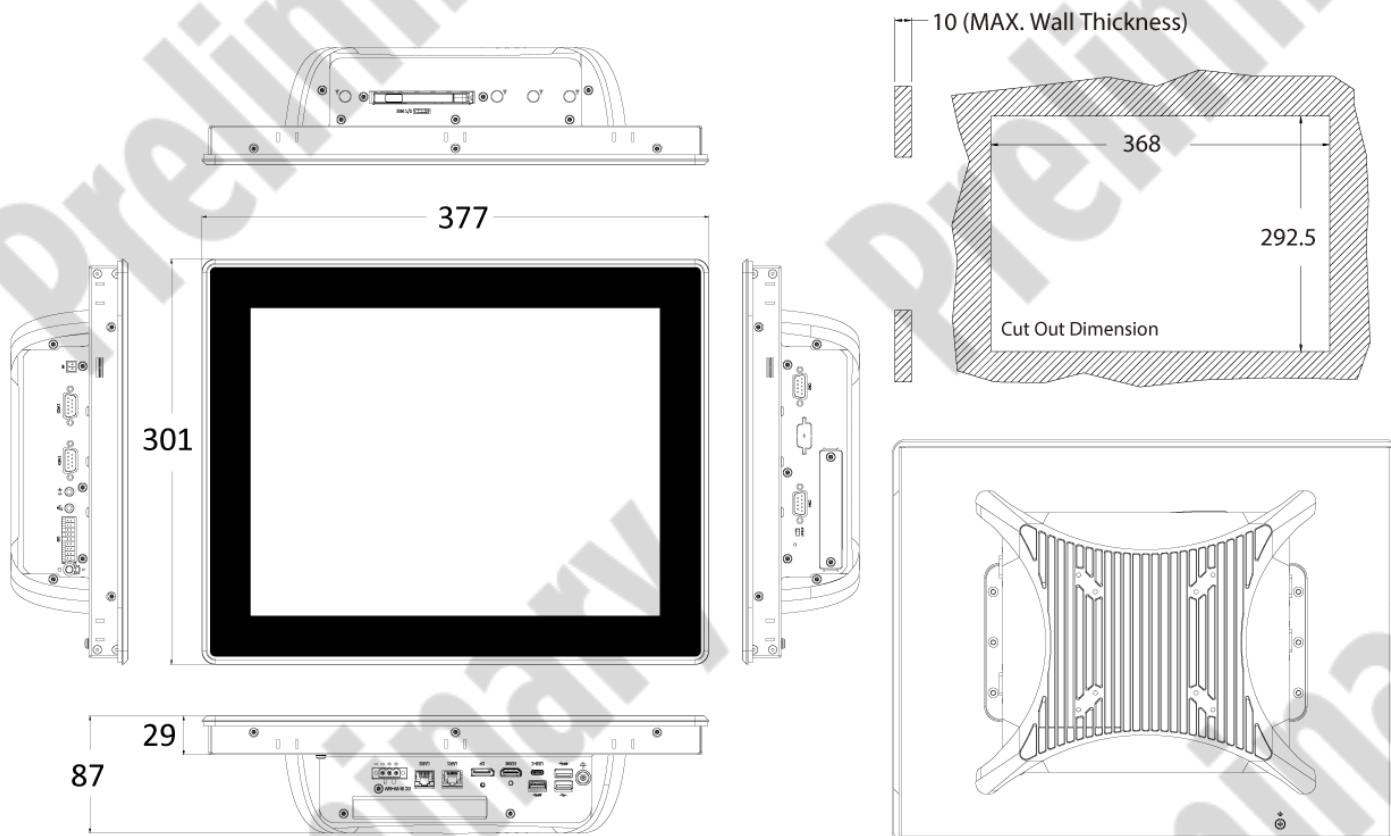


External I/O Mechanical Layout



Dimension

Unit: mm



## Compliances and Standards

|                       |                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shock                 | 20G, half sine, 11ms<br>IEC60068-2-27:2008<br>Designed to comply with MIL-STD-810H Method 516.8 Procedure I                                                                                                                         |
| Vibration             | With SSD: 3 Grms, 5 - 500 Hz, 0.5 hr/axis<br>With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis<br>IEC60068-2-64:2008<br>Designed to comply with MIL-STD-810H Method 514.8 Procedure I                                                       |
| Operating Temperature | 0 °C to 50 °C<br>IEC60068-2-1:2007 (Cold test procedure)<br>IEC60068-2-2:2007 (Dry heat test procedure)<br>IEC60068-2-3:2007 (Damp heat, steady state, test procedure)<br>IEC60068-2-14:2009 (Wide temperature range thermal shock) |
| EMI                   | <ul style="list-style-type: none"> <li>FCC Class B</li> <li>CE</li> <li>ICES-003</li> <li>UKCA</li> </ul>                                                                                                                           |
| Safety                | <ul style="list-style-type: none"> <li>UL Safety: UL62368-1, 3rd Ed., (cULus)</li> <li>Test procedure: CB Scheme</li> <li>Standard: IEC 62368-1:2018</li> </ul>                                                                     |

## Available Models

| Model No.            | Description                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| VIO-315-PC100-ASL    | 15" XGA IP65 Industrial Touchscreen Computer with Intel Atom® Processor, 1x DP, 3x USB, 2x LAN, 4x COM                           |
| VIO-315-PC100-ASL-1E | 15" XGA IP65 Industrial Touchscreen Computer with Intel Atom® Processor, 1x DP, 3x USB, 2x LAN, 4x COM, 1x Universal I/O Bracket |

## Optional Accessories

| Model No.   | Description                                                           |
|-------------|-----------------------------------------------------------------------|
| 1-E09A15002 | AC-DC Power Adapter with 3P Terminal Block Plug 5.0mm_20Vdc_7.5A_150W |
| 1-TPCD00008 | Power Cord 3Pin 1830mm C5 US Type                                     |
| 1-TPCD00009 | Power Cord 3Pin 1830mm C5 EU Type                                     |
| 1-TPCD00011 | Power Cord 3Pin 1830mm C5 UK Type                                     |

## Packing List

- 1x VIO-315-PC100-ASL / 1x VIO-315-PC100-ASL-1E
- 1x Screw Pack

## US Exports And Tariff Codes

|            |              |
|------------|--------------|
| ECCN       | 5A992.c      |
| HTS        | 8471.50.0150 |
| Schedule B | 84.71        |

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