

# VIO-W121/PC100

21.5" 16:9 Full HD Resistive/ Capacitive Touch Panel PC with Intel® Celeron® Processor J1900, 4x COM

## FEATURES

- 21.5" TFT FHD 16:9 LCD with resistive 5-wire / projected capacitive touch
- Intel® Celeron® processor J1900, 2.0 GHz
- 1x 204-pin DDR3L SODIMM. max up to 8GB
- 1x 2.5" SATA HDD bay, 1x mSATA, 1x CFast, 2x SIM socket
- 2x full-size mini PCIe for communication or expansion modules
- 2x LAN, 1x VGA, 1x DisplayPort
- 6x RS-232/422/485 (w/ 2x internal), 1x USB 3.0, 3x USB 2.0, Audio
- 8x DI + 8x DO with isolation
- 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



## SPECIFICATIONS

### DISPLAY

|                     |                           |
|---------------------|---------------------------|
| LCD Size            | 21.5" (16:9)              |
| Max. Resolution     | 1920 x 1080 (Full HD)     |
| Brightness (cd/m²)  | 300                       |
| Contrast Ratio      | 5000:1                    |
| LCD Color           | 16.7M                     |
| Pixel Pitch (mm)    | 0.248 (H) x 0.248 (V)     |
| Viewing Angle (H-V) | 178 / 178                 |
| Backlight MTBF      | 50000 hrs (LED Backlight) |

### TOUCH

|                      |                      |
|----------------------|----------------------|
| Resistive 5-wire     | VIO-W121R/PC100 Only |
| Projected Capacitive | VIO-W121C/PC100 Only |

### SYSTEM

|                |                                                                |
|----------------|----------------------------------------------------------------|
| Processor      | Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz |
| System Chipset | SoC integrated                                                 |
| LAN Chipset    | GbE1 & GbE2: Intel® I210-AT (Support Wake-on-LAN and PXE)      |
| Audio Codec    | Realtek ALC888S                                                |
| System Memory  | 1x 204-Pin DDR3L 1066/1333MHz SODIMM. Max. up to 8GB           |
| BIOS           | AMI 64Mbit SPI BIOS                                            |
| Watchdog       | Software Programmable Supports 1~255 sec. System Reset         |

### STORAGE

|                    |                                              |
|--------------------|----------------------------------------------|
| SSD/HDD            | 1x External 2.5" SATA HDD Bay                |
| mSATA              | 1x mSATA (Shared by 1x Mini PCIe)            |
| CompactFlash/CFast | 1x CFast (Shared by 1x mSATA & 1x Mini PCIe) |
| SIM Socket         | 2x External SIM socket                       |

### EXPANSION

|                  |                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Mini PCI Express | 1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB + SATA)<br>1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB) |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------|

### I/O

|             |                |
|-------------|----------------|
| VGA         | 1x VGA         |
| DisplayPort | 1x DisplayPort |

|        |                                                                                       |
|--------|---------------------------------------------------------------------------------------|
| COM    | 4x RS-232/422/485<br>2x RS-232/422/485 (internal)                                     |
| USB    | 1x USB 3.0, 3x USB 2.0                                                                |
| LAN    | 2x RJ45                                                                               |
| Audio  | 1x Mic-in, 1x Line-out                                                                |
| DIO    | 8 in / 8 out (Isolated)                                                               |
| Others | 3x WiFi Antenna Holes<br>1x Power Switch, 1x AT/ATX Switch,<br>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, Windows 7, WES7 |
| Linux   | Linux kernel 3.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 60°C               |
| Relative Humidity         | 10% to 80% (non-condensing) |
| IP Level                  | IP 65 Compliant Front Panel |
| Standards / Certification | CE, FCC Class A             |

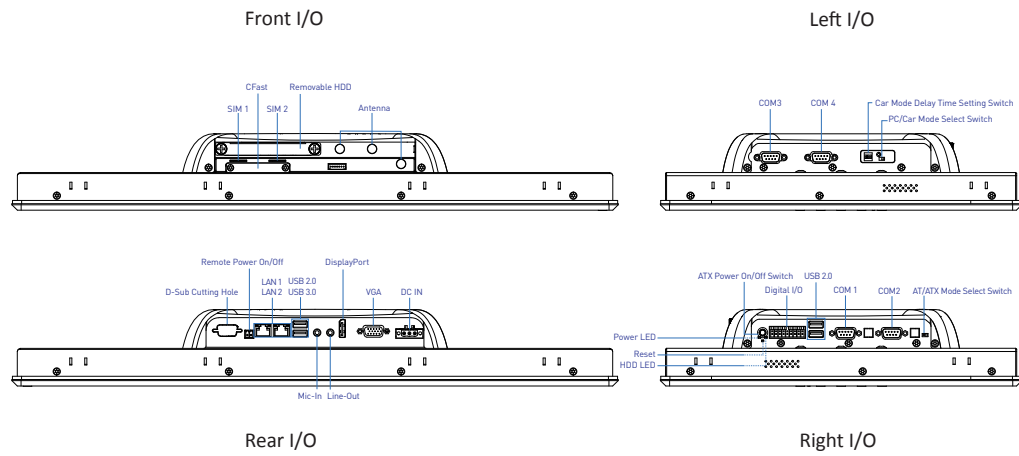
### PHYSICAL

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Front Panel Construction | Die-cast Flat Surface                                |
| Dimension                | 563.5 (W) x 336 (D) x 71 (H)mm                       |
| Weight                   | VIO-W121R/PC100: 8.37 kg<br>VIO-W121C/PC100: 8.32 kg |
| Mounting                 | VESA Mounting Holes 75 x 75mm,<br>100 x 100mm        |

\* For detailed performance specification, please refer to the data sheet or consult with the technical team.

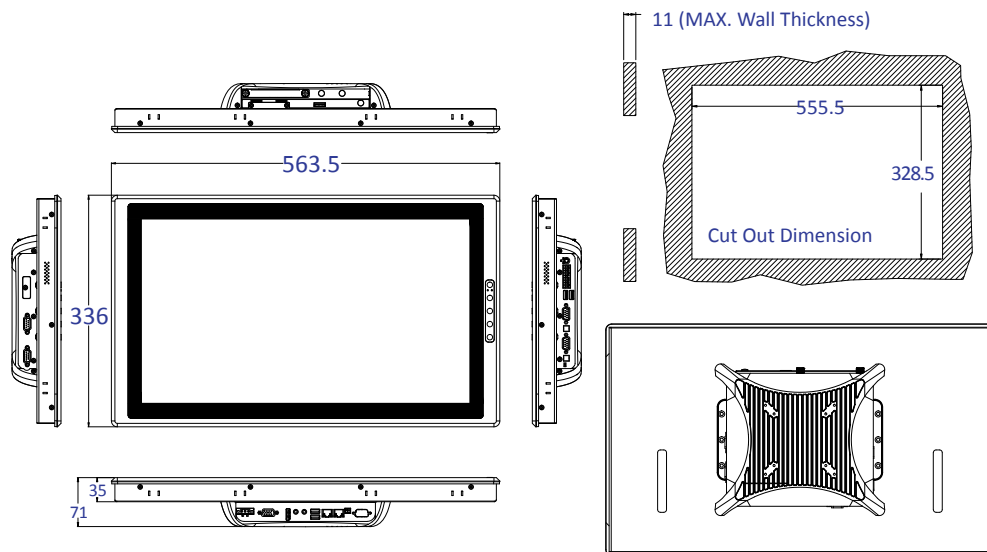
† The environmental specification covers the bare bone systems and does not include other components environmental specification.

## EXTERNAL I/O MECHANICAL LAYOUT



## DIMENSION

Unit: mm



## AVAILABLE MODELS

| MODEL NO.             | DESCRIPTION                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------|
| VIO-W121R/PC100-J1900 | 21.5" 16:9 Full HD Resistive Touch Panel PC with Intel® Celeron® Processor J1900, 4x COM  |
| VIO-W121C/PC100-J1900 | 21.5" 16:9 Full HD Capacitive Touch Panel PC with Intel® Celeron® Processor J1900, 4x COM |

## 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-W121/PC100 Series Panel PC
- 12x Panel Mount Kit
- 1x Utility DVD Driver
- 1x Screw Pack

