# VIO-W221/PC300

21.5” 16:9 Full HD Resistive / Capacitive Touch Thin Frame Panel PC with Intel® Core™ i5/i3 or Celeron® Processor

## FEATURES

- 21.5” TFT FHD 16:9 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
- 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 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
- **Pixel Pitch (mm)**: 0.248 (H) x 0.248 (V)
- **Viewing Angle (H-V)**: 178 / 178
- **Backlight MTBF**: 50000 hrs (LED Backlight)
- **Resistive 5-wire**: VIO-W221R/PC300 Only
- **Projected Capacitive**: VIO-W221C/PC300 Only

### SYSTEM

- **Processor**:
  - 5th Gen Intel® Core™ i5-5350U Processor, Dual Core, 3MB Cache, up to 2.9 GHz
  - 5th Gen Intel® Core™ i3-5010U Processor, Dual Core, 2MB Cache, 2.1 GHz
  - 5th Gen Intel® Celeron® Processor 3765U, Dual Core, 2MB Cache, 1.9 GHz
- **LAN Chipset**:
  - Gbe1: Intel® I210-AT (Support Wake-on-LAN and PXE)
  - 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
- **Mini PCIe Express**: 2x Full-size Mini PCIe

### OTHER FEATURES

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

### I/O

- **VGA**: 1x VGA (or 1x DVI-D by Order)
- **DisplayPort**: 1x DisplayPort
- **COM**: 2x RS-232/422/485 (w/ 2x internal), 3x USB 3.0, 1x USB 2.0, Audio, DIO
- **LAN**: 2x RJ45
- **Audio**: 1x Mic-in, 1x Speaker-out
- **DIO**: 4 in / 4 out (Isolated)
- **Others**: 3x WiFi Antenna Holes, 1x Power Switch, 1x AT/ATX Switch, 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**: Supported
- **Power Connector**: 3-pin Terminal Block
- **Power Adaptor**: Optional AC/DC 24V/5A, 120W
- **Power Protection**:
  - OVP (Over Voltage Protection)
  - OCP (Over Current Protection)
  - Reverse Protection

### ENVIRONMENT

- **Operating Temp.**: -10°C to 60°C
- **Storage Temp.**: -20°C to 60°C
- **Relative Humidity**: 10%~80% (non-condensing)
- **IP Level**: IP 65 Compliant Front Panel
- **Vibration**:
  - With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis
  - With HDD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis
- **Shock**:
  - With SSD: 50G, half sine, 11ms
  - With HDD: 50G, half sine, 11ms
- **Standards / Certification**:
  - CE, FCC Class A
  - Die-cast Flat Surface
- **Front Panel Construction**:
  - 528.5 (W) x 324 (D) x 71 (H)mm
  - 8.46 kg
  - 8.14 kg
- **Mounting**: VESA Mounting Holes 75 x 75mm, 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.

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* Specifications are subject to change without notice. Please refer to the latest data sheet for the most current information.*
### Available Models

<table>
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<tr>
<td>VIO-W221R/PC300-5350U</td>
<td>21.5” 16:9 FHD Resistive Touch Thin Frame Panel PC with Intel&lt;sup&gt;®&lt;/sup&gt; i5-5350U Processor</td>
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<tr>
<td>1-E09A12002</td>
<td>Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug 5.0mm Pitch</td>
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<tr>
<td>SFICBL022</td>
<td>Power Cord, 3-pin US Type, 180cm</td>
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<tr>
<td>1-TPC00002</td>
<td>Power Cord, European Type, 180cm</td>
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<tr>
<td>1-TPC00001</td>
<td>Power Cord, 3-pin UK Type, 180cm</td>
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### PACKING LIST

- 1x VIO-W221/PC300 Series Panel PC
- 12x Panel Mount Kit
- 1x Utility DVD Driver
- 1x Screw Pack

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**DIMENSION**

Unit: mm

**CUSTOMER INFORMATION**

Premio Inc. | 918 Radecki Ct. City of Industry, CA 91748 | Toll Free: 800.977.3646 | www.premioinc.com