

VIO-W221x-PC300

Rugged Front IP65 21.5" XGA Resistive/Capacitive Touch Panel
PC with Intel® Broadwell-U Core™ i5/i3 or Celeron® Processor

FEATURES

- 21.5" TFT FHD 16:9 LCD with Resistive 5-wire or Projected Capacitive Touch
- Intel® Core™ i5-5350U, i3-5010U or Celeron® 3765U
- 1x 204-pin DDR3L SODIMM, up to 8GB
- 1x 2.5" SATA HDD bay, 2x mSATA
- 2x Full-size mini PCIe, 2x SIM socket
- 2x LAN, 1x VGA, 1x DisplayPort
- 4x RS-232/422/485, 3x USB 3.0, 1x USB 2.0, Audio, DIO
- 9 to 48 VDC wide range power input
- -10 °C to 60 °C extended operating temperature
- IP65 aluminum die-casting front bezel
- Two 5W internal speakers
- Multi-language OSD (rear OSD buttons)

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	50,000 hrs (LED Backlight)

Touch

Resistive 5-wire	VIO-W221R-PC300-xxxxU
Projected Capacitive	VIO-W221C-PC300-xxxxU

System

Processor	Core™ i5-5350U, Dual Core, 3MB Cache, 2.9 GHz Core™ i3-5010U, Dual Core, 3MB Cache, 2.1 GHz Celeron® 3765U, Dual Core, 2MB Cache, 1.9 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I210-AT, GbE2: Intel® I218-LM (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC885
System Memory	1x 204-Pin DDR3L 1333/1600MHz SODIMM up to 8GB
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable 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)

Expansion

Mini PCI Express	2x Full-size Mini PCIe
SIM Socket	2x External SIM socket

Other Features

Internal Speaker	AMP 5W + 5W
OSD Buttons (rear)	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 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 (2W+2W)
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	Win10, Win8.1, WES8.1, Win7, WES7
Linux	Linux kernel 3.X

Power

Power Mode	AT/ATX Select Switch; PC/Vehicle Select Switch
Power Supply Voltage	9 ~ 48 VDC
Power Ignition Sensing	Power Ignition Management
Power Connector	3-pin Terminal Block
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) RPP (Reverse Polarity Protection)

Power Adapter*	Optional External Power Adapter, 60W or 120W
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Environment†

Operating Temp.	-10 °C to 60 °C (14 °F to 140 °F)
Storage Temp.	-20 °C to 70 °C (-4 °F to 158 °F)
Relative Humidity	10% ~ 80% (non-condensing)
IP Level	IP 65 Compliant Front Panel
Certification	CE, FCC Class A

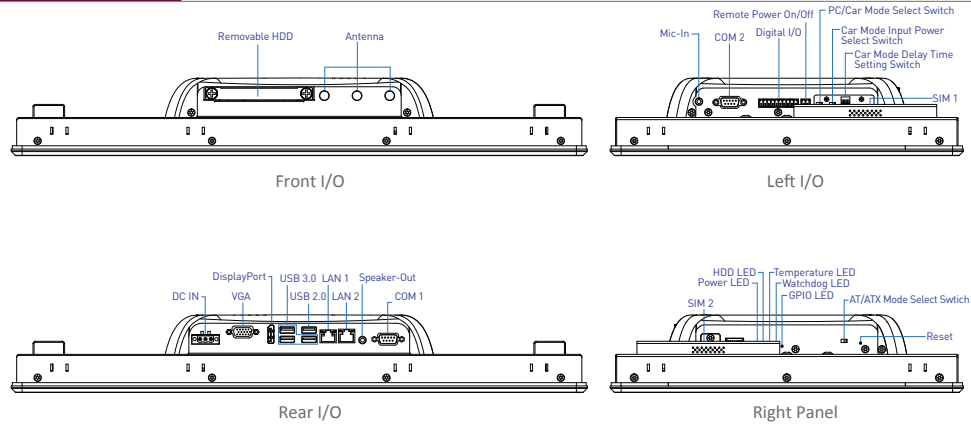
Physical

Front Panel	Die-cast Aluminum Flat Surface
Dimension (W x D x H)	528.5 x 324 x 71 mm (20.8" x 12.8" x 2.8")
Weight	8.5 kg (18.7 lb)
Mounting	Panel Mount Wall/VESA Mount (Optional)

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

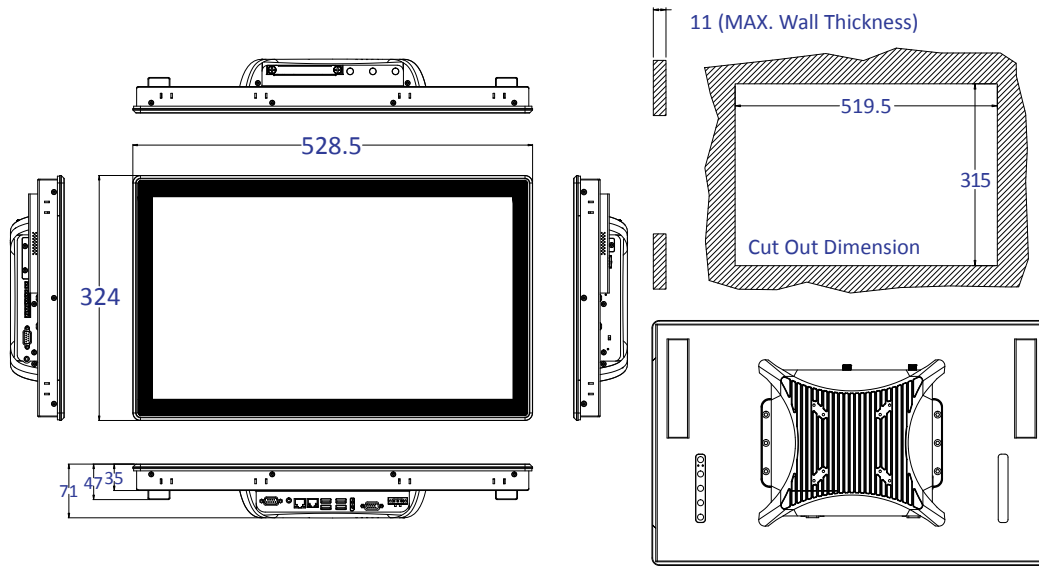
† The environmental specification covers the bare bone systems and does not include other components environmental specification.

I/O LAYOUT



DIMENSION

Unit: mm



ORDERING INFO

Part No.	Description
VIO-W221R-PC300-5350U	21.5" FHD (1920x1080) 16:9 Resistive Touch Panel PC with Intel® Core™ i5-5350U Processor
VIO-W221C-PC300-5350U	21.5" FHD (1920x1080) 16:9 Capacitive Touch Panel PC with Intel® Core™ i5-5350U Processor
VIO-W221R-PC300-5010U	21.5" FHD (1920x1080) 16:9 Resistive Touch Panel PC with Intel® Core™ i3-5010U Processor
VIO-W221C-PC300-5010U	21.5" FHD (1920x1080) 16:9 Capacitive Touch Panel PC with Intel® Core™ i3-5010U Processor
VIO-W221R-PC300-3765U	21.5" FHD (1920x1080) 16:9 Resistive Touch Panel PC with Intel® Celeron® 3765U Processor
VIO-W221C-PC300-3765U	21.5" FHD (1920x1080) 16:9 Capacitive Touch Panel PC with Intel® Celeron® 3765U Processor

OPTIONAL ACCESSORIES

Part No.	Description
1-E09A06002	Adapter AC/DC 12V 5A 60W with 3-pin Terminal Block Plug 5.0mm Pitch
1-E09A12001	Adapter AC/DC 24V 5A 120W with 3-pin Terminal Block Plug 5.0mm Pitch

PACKING LIST

1x VIO-W221x Series Panel PC
1x Panel Mount Kit
1x Utility DVD Driver
1x Screw Pack