



INDUSTRIAL TOUCH SCREEN COMPUTER

VIO-W224-PC400

23.8" Full HD 16:9 IP65 Industrial Touchscreen Computer with 7th Gen Intel® Core™



Features

- 23.8" Full HD 16:9 LCD with resistive 5-wire / projected capacitive touch
- Intel® 7th 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-W224-PC410 Only)
- 9 to 50VDC wide range power input
- -10°C to 50°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

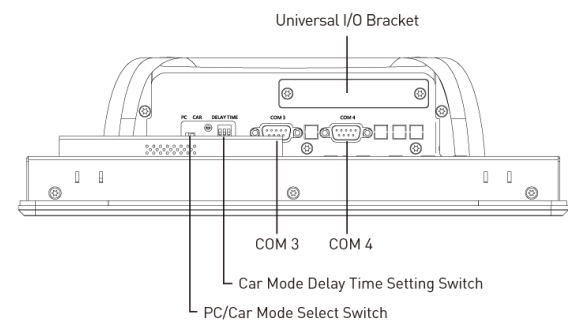
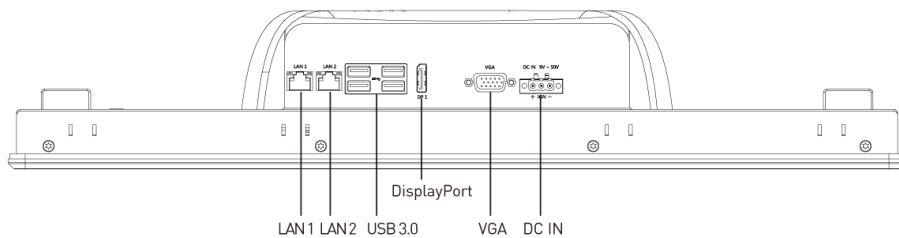
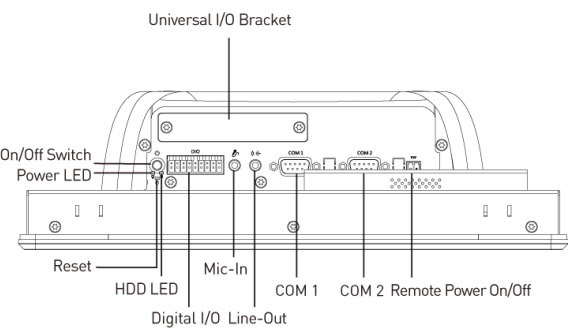
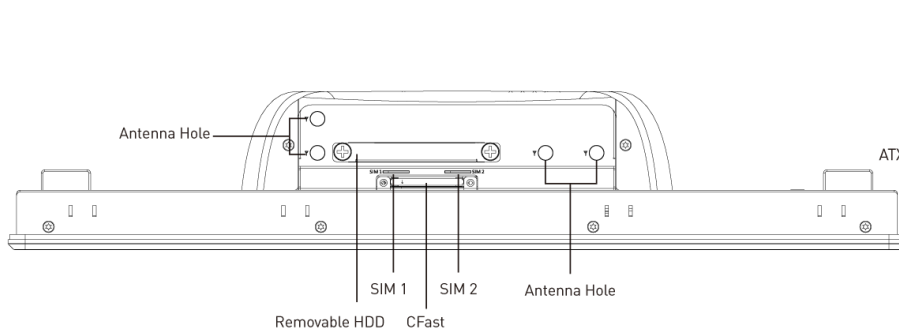
Specifications

Display	
IP Rating	IP65
LCD Size	23.8" (16:9)
Max. Resolution	1920 x 1080 (FHD)
Brightness (cd/m ²)	450
Contrast Ratio	1000:1
LCD Color	16.7M
Pixel Pitch (mm)	0.2745(H) x 0.2745(V)
Viewing Angle	178/178
Backlight MTBF	30000 hrs (LED Backlight)
Touch	
Projected Capacitive	VIO-W224C-PC400, VIO-W224C-PC410
Resistive 5-Wire	VIO-W224R-PC400, VIO-W224R-PC410
System	
Processor	
7th Gen Intel® Core™ i5-7300U Processor, Dual Core, 3MB Cache, up to 3.5 GHz	
7th Gen Intel® Core™ i3-7100U Processor, Dual Core, 3MB Cache, 2.4 GHz	
System Chipset	SoC Integrated
LAN Chipset	GbE1: Intel® I219LM (Support Wake-on-LAN and PXE) 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 64Mbit SPI BIOS
Watchdog	Software Programmable 1~255 sec. System Reset
Storage	
CFast	1x CFast (shared by 1x mSATA)
mSATA	1x mSATA (shared by 1x Mini PCIe)
SIM Socket	2x External SIM socket
SSD/HDD	1 x Hotswap 2.5" SATA HDD Bay Support RAID 0, 1
Expansion	
Mini PCIe	2x Full-size Mini PCIe
I/O	
Audio	1x Mic-In, 1x line-out
COM	4x RS-232/422/485 2x RS-232/422/485 (internal) (VIO-W224-PC410 only)
DIO	8 in / 8 out (Isolated)
LAN	2x RJ45
LVDS	1x Dual Channel 24 bit LVDS
Universal I/O Bracket	2x Universal I/O Bracket for Expansion (VIO-W224-PC410 only)
USB	4x USB 3.0
DP	1x DisplayPort
Others	3x Antenna Holes (VIO-W224-PC400 only) 4x Antenna Holes (VIO-W224-PC410 only) 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off
VGA	1x VGA
Others Features	
Speaker	AMP 10W + 10W
OSD	LCD On/Off, Auto, Menu, Up and Down Multi-language
Operating System	
Windows	Windows 10
Linux	Linux kernel 4.X
Power	
Power Adapter	Optional AC/DC 24V/5A, 120W

Power Management	Power Ignition Management
Power Mode	AT, ATX
Power Supply Voltage	9~50 VDC
Power Connector	3-Pin Terminal Blcok
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Operating Temperature	-10 °C ~ 50 °C
Storage Temperature	-20 °C to 60 °C
Relative Humidity	10% ~ 80% (non-condensing)
IP Level	IP 65 Compliant Front Panel
Certification	CE, FCC Class A
Vibration	With SSD: 1.5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	20G, half sine, 11ms

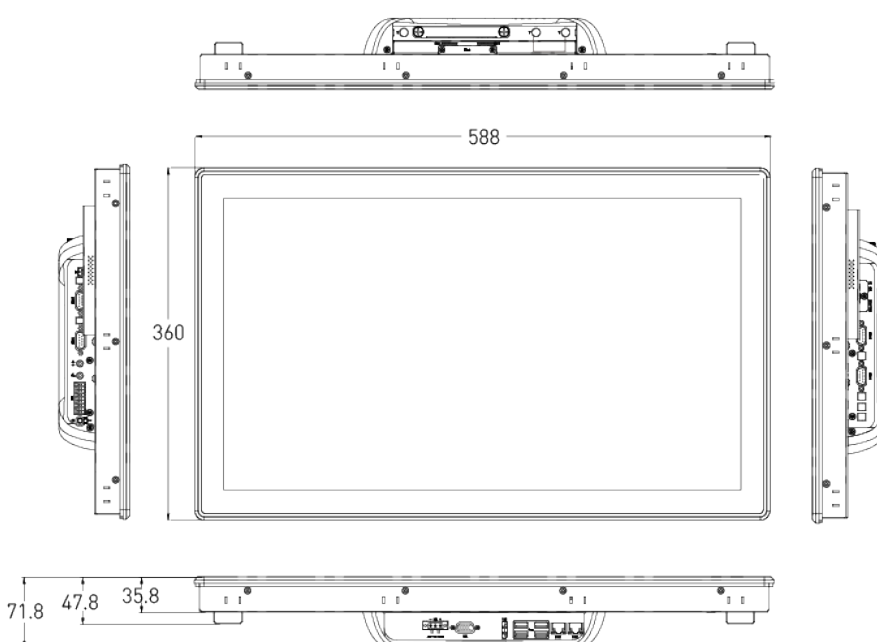
Physical	
Dimensions	VIO-W224/PC400: 588 (W) x 360 (D) x 71.8 (H) mm VIO-W224/PC410: 588 (W) x 360 (D) x 93.8 (H) mm
Weights	VIO-W224/PC400: 9.57 ~ 9.82 kg VIO-W224/PC410: 9.86 ~ 10.11 kg
Mounting Options	VESA Mounting Holes 75 x 75mm, 100 x 100mm

External I/O Mechanical Layout

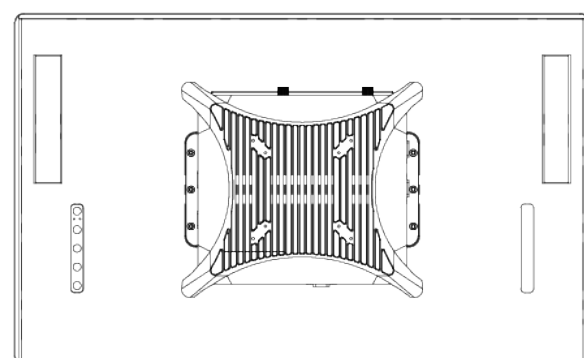
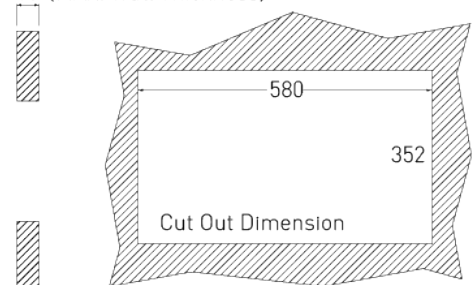


Dimension

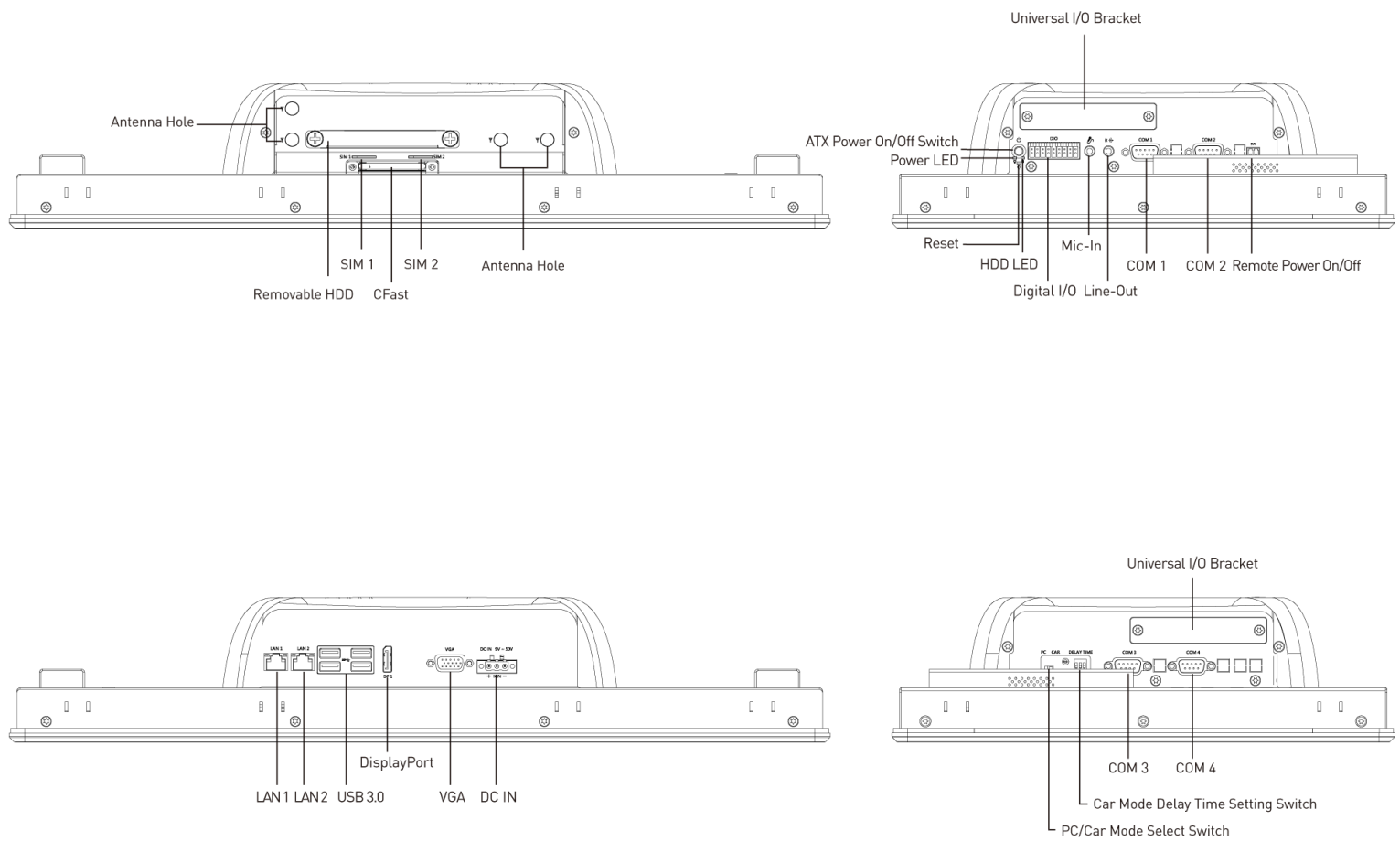
Unit: mm



11 (MAX. Wall Thickness)

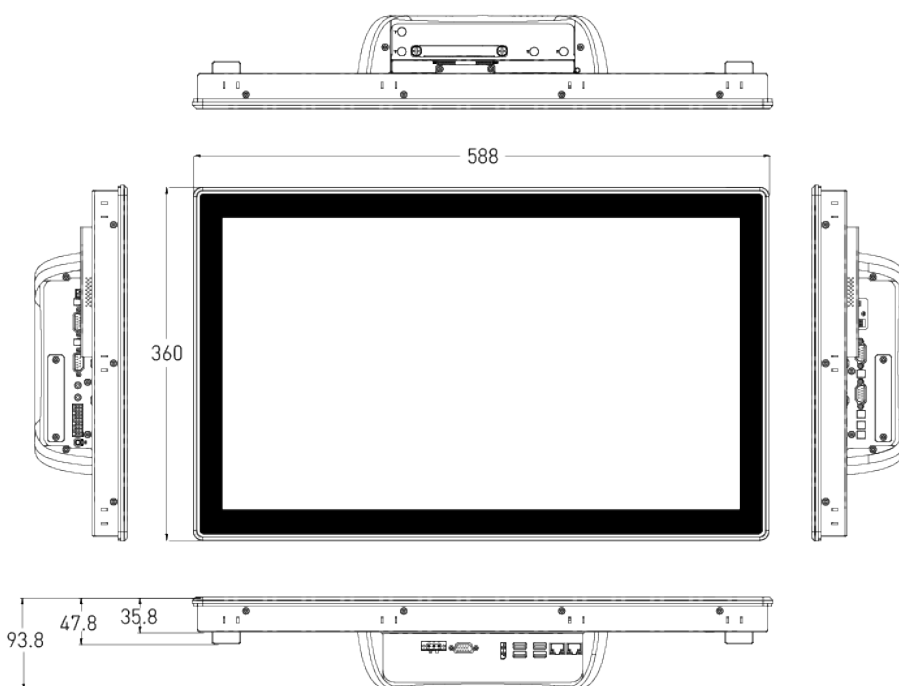


External I/O Mechanical Layout

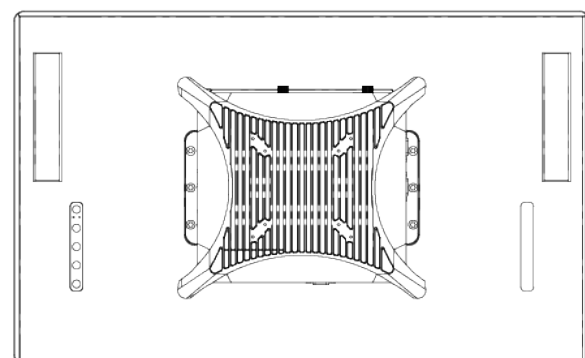
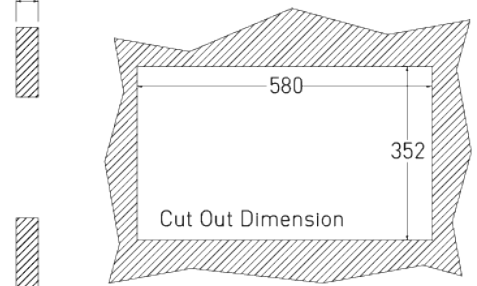


Dimension

Unit: mm



11 (MAX. Wall Thickness)



Available Models

Model No.	Description
VIO-W224R-PC400-7300U	23.8" 16:9 Full HD Resistive Touch Thin Frame Panel PC with Intel® Core™ i5-7300U Processor
VIO-W224C-PC400-7300U	23.8" 16:9 Full HD Capacitive Touch Thin Frame Panel PC with Intel® Core™ i5-7300U Processor
VIO-W224R-PC400-7100U	23.8" 16:9 Full HD Resistive Touch Thin Frame Panel PC with Intel® Core™ i3-7100U Processor
VIO-W224C-PC400-7100U	23.8" 16:9 Full HD Capacitive Touch Thin Frame Panel PC with Intel® Core™ i3-7100U Processor
VIO-W224R-PC410-7300U	23.8" 16:9 Full HD Resistive Touch Thin Frame Panel PC with Intel® Core™ i5-7300U Processor, 2x Universal I/O Bracket
VIO-W224C-PC410-7300U	23.8" 16:9 Full HD Capacitive Touch Thin Frame Panel PC with Intel® Core™ i5-7300U Processor, 2x Universal I/O Bracket
VIO-W224R-PC410-7100U	23.8" 16:9 Full HD Resistive Touch Thin Frame Panel PC with Intel® Core™ i3-7100U Processor, 2x Universal I/O Bracket
VIO-W224C-PC410-7100U	23.8" 16:9 Full HD Capacitive Touch Thin Frame Panel PC with Intel® Core™ i3-7100U Processor, 2x Universal I/O Bracket

Optional Accessories

Model No.	Description
1-E09A12002	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

Packing List

- 1x VIO-W224-PC400 Series Panel PC
- 12x Panel Mount Kit
- 1x Screw Pack

Compliances and Standards

Shock	20G, half sine, 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Vibration	With SSD: 1.5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis IEC60068-2-64:2008 Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Operating Temperature	-10 °C ~ 50 °C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMI	• FCC Class A (47 CFR part 15.109 and part 15.107) • CE • ICES-003 • UKCA