



INDUSTRIAL TOUCH SCREEN COMPUTER

VIO-212-PC100-J1900

12.1" 4:3 IP65 Industrial Touchscreen Computer with Intel® Celeron® J1900



Features

- 12.1" TFT XGA 4:3 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
- 2x universal I/O bracket (by mini PCIe interface)
- 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 2W internal speakers built-in
- Multi-language OSD built-in
- High Brightness Display and Optical Bonding (Optional)



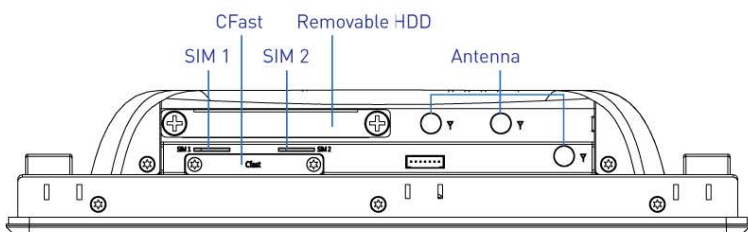
Specifications

Display	
IP Rating	IP65
LCD Size	12.1" (4:3)
Max. Resolution	1024 x 768 (XGA)
Brightness (cd/m ²)	600 / 1000 (optional)
Contrast Ratio	1000:1
LCD Color	16.2M
Pixel Pitch (mm)	0.24(H) x 0.24(V)
Viewing Angle	178/178
Backlight MTBF	50000 hrs (LED Backlight)
Touch Type	Resistive 5-Wire Projective Capacitive
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)
System Memory	1x 204-Pin DDR3L 1333/1600MHz SODIMM up to 8GB
BIOS	AMI 64Mbit SPI BIOS
Watchdog	Software Programmable 1~255 sec. System Reset
Storage	
CFast	1x CFast
mSATA	1x mSATA
SIM Socket	2x External SIM socket
SSD/HDD	1 x Hotswap 2.5" SATA HDD Bay
Expansion	
Mini PCIe	1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB + SATA) 1x Full-size Mini PCIe Socket with USIM Socket (PCIe + USB)
I/O	
Audio	1x Mic-In, 1x line-out
COM	4x RS-232/422/485 2x RS-232/422/485 (internal)
DIO	8 in / 8 out (Isolated)
LAN	2x RJ45
Universal I/O Bracket	2x Universal I/O Bracket
USB	1x USB 3.0 3x USB 2.0
DP	1x DP
Others	3x Antenna 1x Power Switch 1x AT/ATX Switch 1x Remote Power On/Off
VGA	1x VGA
Optical Bonding	Optional, contact us for more information
OSD	LCD On/Off, Auto, Menu, Up and Down Multi-language
Speaker	AMP 2W + 2W
Power	
Power Adapter	Optional AC/DC 12V/5A, 60W
Power Management	Power Ignition Management
Power Mode	AT, ATX
Power Supply Voltage	9~50 VDC
Power Connector	3-Pin Terminal Block
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection

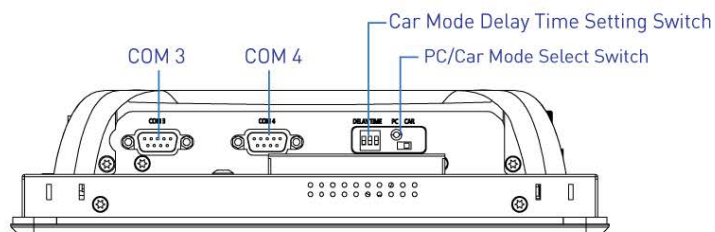
Environment	
Operating Temperature	-10 °C ~ 60 °C
Storage Temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Relative Humidity	10% ~ 80% (non-condensing)
IP Level	IP 65 Compliant Front Panel
Certification	CE, FCC Class A
Vibration	With SSD: 1.5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	20G, half sine, 11ms
Physical	
Dimensions	VIO-212-PC100-J1900: 319 (W) x 257 (D) x 61.7 (H) mm VIO-212-PC110-J1900-1: 319 (W) x 257 (D) x 83.7 (H) mm
Weights	VIO-212R-PC100-J1900: 3.92 kg VIO-212C-PC100-J1900: 3.88 kg VIO-212R-PC110-J1900-1: 4.37 kg VIO-212C-PC110-J1900-1: 4.28 kg
Mounting Options	VESA Mounting Holes 75 x 75mm, 100 x 100mm

External I/O Mechanical Layout

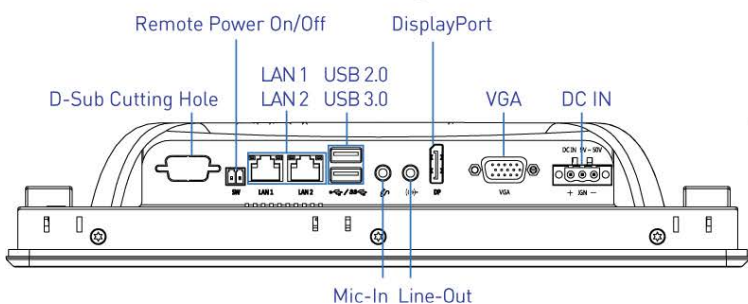
Front I/O



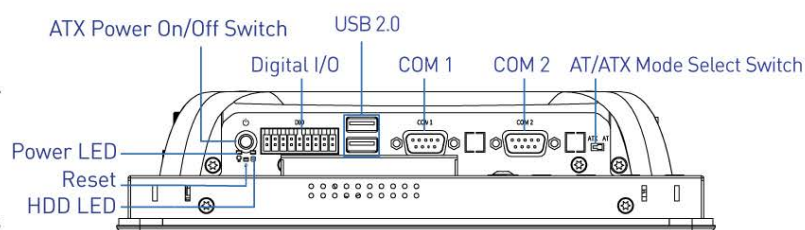
Left I/O



Rear I/O

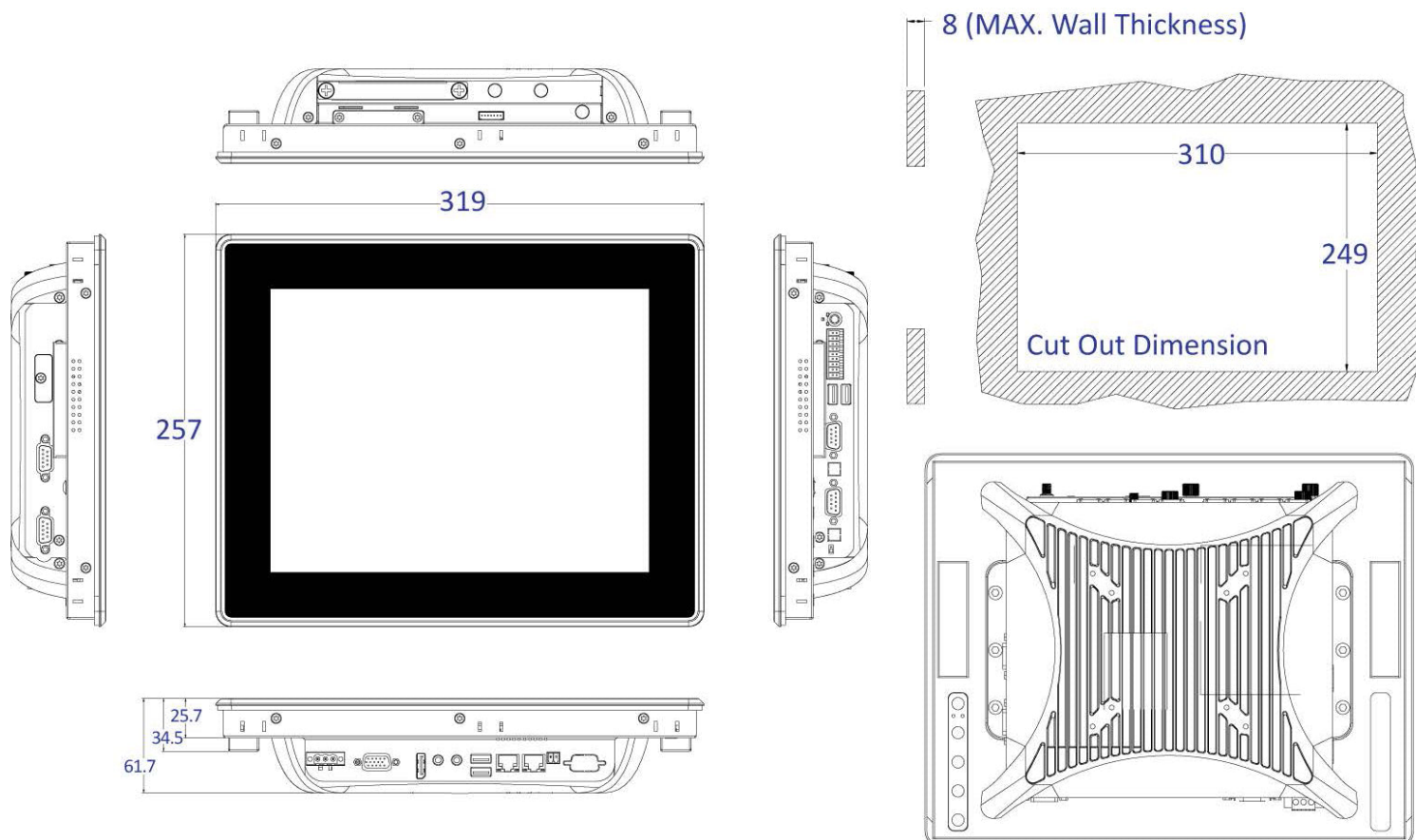


Right I/O



Dimension

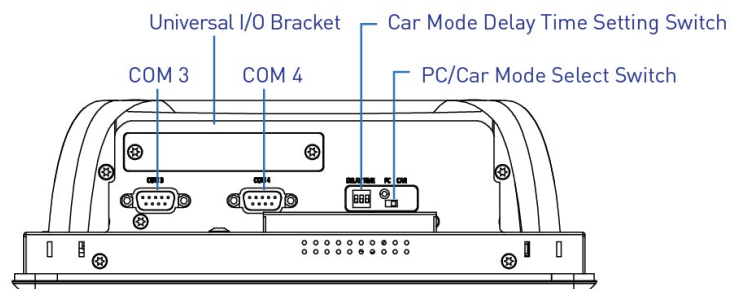
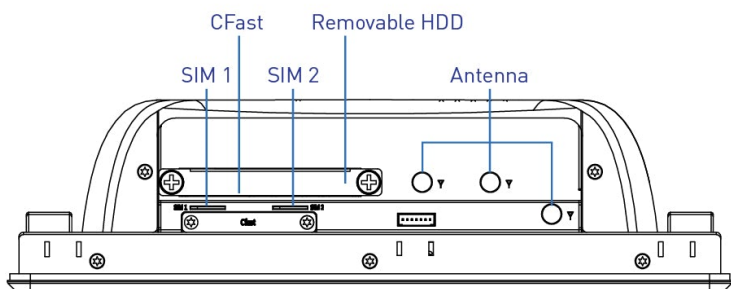
Unit: mm



External I/O Mechanical Layout

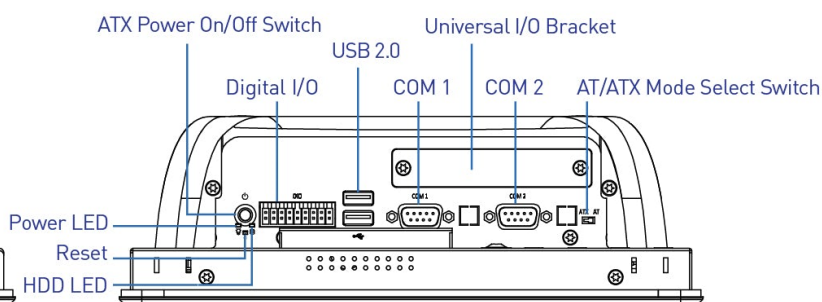
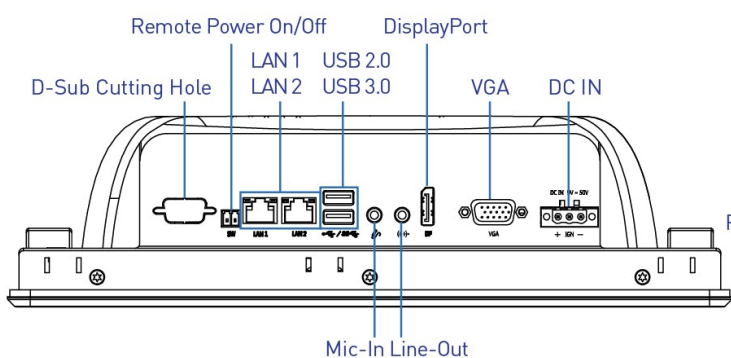
Front I/O

Left I/O



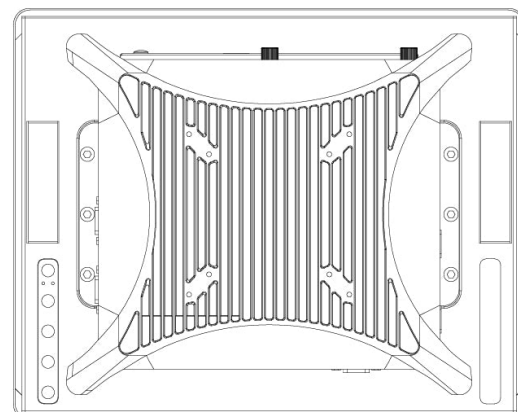
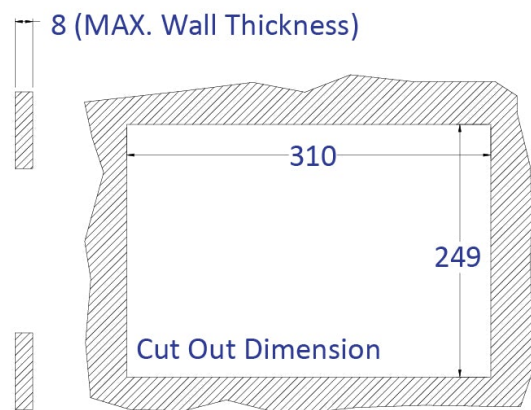
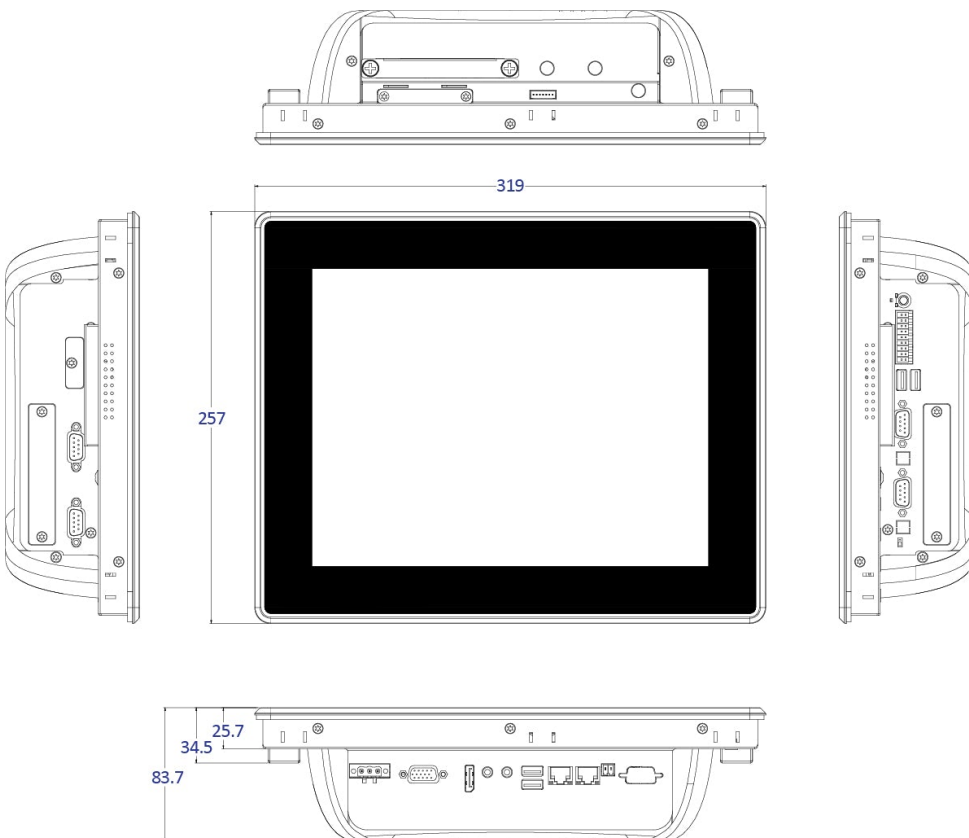
Rear I/O

Right I/O



Dimension

Unit: mm



Available Models

Model No.	Description
VIO-212C-13	12.1" XGA Capacitive Touch Thin Frame Display Module with 2x 2W Speaker
VIO-212HC-13	VIO-212HC,12.1",XGA,CAPACITIVE,HB,2X2W SPK,V13
VIO-212HC-13-OB	VIO-212HC,12.1",XGA,CAPACITIVE,HB,OB,2X2W SPK,V13
VIO-212HR-13	VIO-212HR,12.1",XGA,RESISTIVE,HB,2X2W SPK,V13
VIO-212HR-13-OB	VIO-212HR,12.1",XGA,RESISTIVE,HB,OB,2X2W SPK,V13
VIO-212R-13	12.1" XGA Resistive Touch Thin Frame Display Module with 2x 2W Speaker
PC100-J1900-1-P	PC Module for Industrial Display System with Intel Celeron Processor J1900, 4x COM, 2x Universal I/O Bracket
PC100-J1900-P	PC Module for Industrial Display System with Intel Celeron Processor J1900, 4x COM

Optional Accessories

Model No.	Description
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
999930	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-212-PC100-J1900
- 1x Utility DVD Driver
- 10x 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 ~ 60 °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

Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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