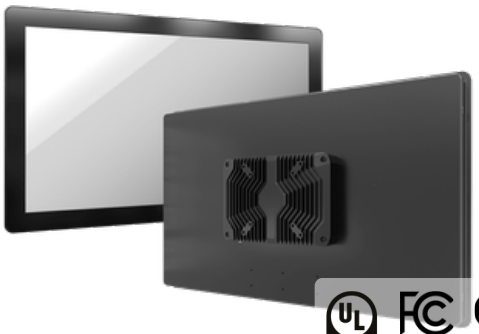
ALL IN ONE TOUCHSCREEN COMPUTER

AIO-W221-ASL-2L

21.5" Full HD Capacitive IP65 All In One Touchscreen Computer w/ Intel® X7000 and N Series Processors, 2x LAN, 3x USB-A, 1x USB-C, 2x COM, 1x DP, 1x HDMI



Features

- 21.5" (16:9) Full HD All-in-One Touchscreen Computer
- World Class Certifications for Safety and Reliability: CE/FCC/CB/UL/UKCA/IC
- Front IP65 Rating for protection against water and dust
- Scratch Resistant 7H Glass Hardness
- Versatile Display Outputs; HDMI and DP
- Backlight lifetime Up to 50,000 Hours
- 10 Point Multi Touch with AG/AF

Specifications

Display	
IP Rating	Front IP65
LCD Size	21.5" (16:9)
Max. Resolution	1920 x 1080 (Full HD)
Brightness (cd/m^2)	500 nits
Contrast Ratio	1000:1
LCD Color	16.7M
Pixel Pitch (mm)	0.248(H) x 0.248(V)
Viewing Angle	89/89/89/89 (Typ.) (CR>=10)
Backlight Lifetime	50,000 Hours (LED Backlight)
Display Port	1x DP 1.4, up to 3840 x 2160 @ 60Hz
HDMI	1x HDMI 2.1, up to 3840 x 2160 @ 60Hz
LVDS	Default touchscreen LCD
Multiple Display	Triple Independent Displays

Touch	
Touch Type	Projected Capacitive Touch
Surface Hardness	7H / IK07
Multi-touch	10 point
Anti-noise	CS 10V rms
Coating	AG/AF

System	
Processor	
Standard • Intel® Processor N97, 6MB Cache, up to 3.60 GHz, 4-Core Processor	
Project Based • Intel® Processor N150, 6MB Cache, up to 3.60 GHz, 4-Core Processor • Intel® Atom® x7433RE Processor 6M Cache, up to 3.40 GHz, 4 Core Processor	
System Chipset	SoC integrated
System Memory	DDR5 4800 MT/s SODIMM. Max up to 16GB (Default: 8GB)
LAN Chipset	GbE1: Intel I225-V (Support Wake-on-LAN and PXE) GbE2: Intel I225-V (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888
BIOS	AMI uEFI 8Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset

Storage	
M.2	1x M-Key 2280, 128G NVMe SSD (Default)
SATA	2.5" SATA SSD (Option)

Expansion	
M.2	1x E-Key 2230 PCIe+USB2.0 1x B-Key 2242/3052 PCIe/USB3.0 Support 4G LTE/5G (Shared with SATA connector)

I/O	
COM	1x RS232/422/485 and 1x RS232 (Default, shared with 2x USB 2.0)
USB	2x USB 3.2 Gen 2 Type-A 1x USB 3.2 Gen 1 Type-A 1x USB 3.2 Gen 1 Type-C 2x USB 2.0 (Optional, shared with 2x COM Ports)
LAN	2x 2.5GbE LAN
Audio	1x Audio out (Default) 1x Speaker out (Option)
SIM	1x Dual Nano SIM
Others	Support 6x Dipole Antenna (optional)

Operating System	
Windows	Windows 10 IoT Enterprise LTSC (64-bit) Windows 11 IoT Enterprise LTSC (64-bit)
Linux	Ubuntu 22.04 / 24.04 LTS Linux 5.x / 6.x

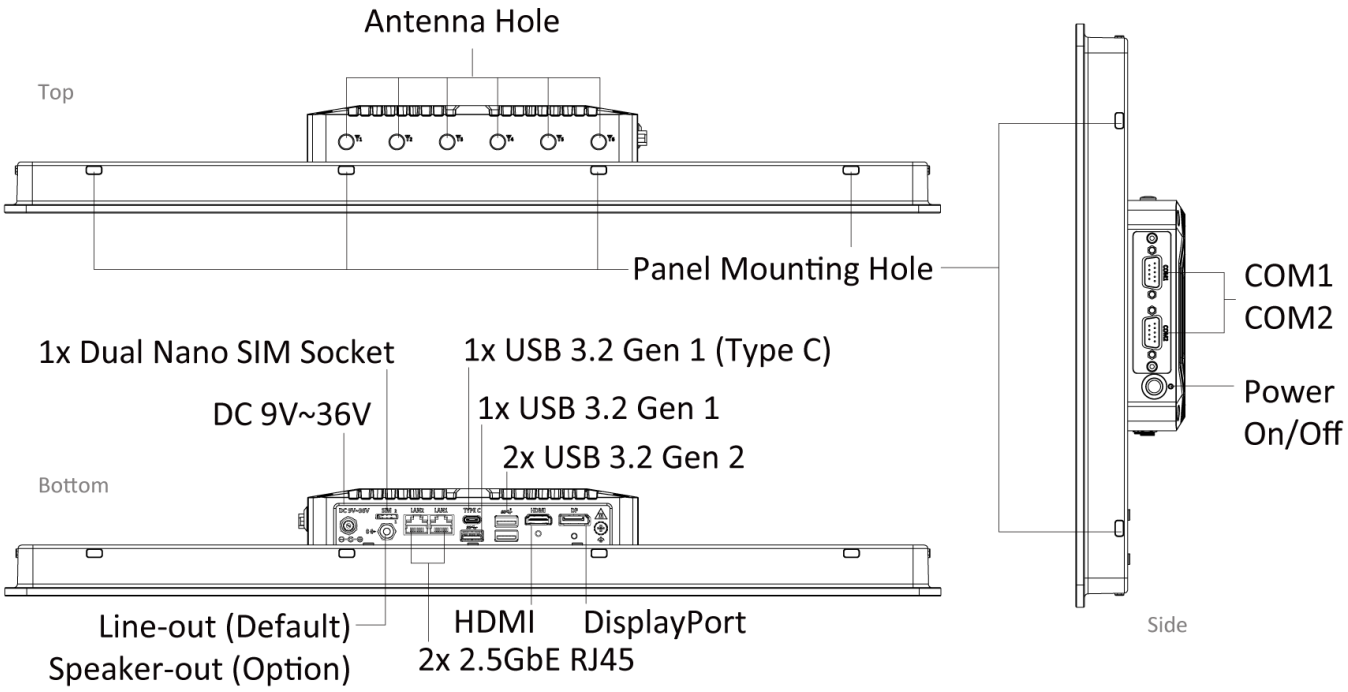
Power	
Power Adapter	150W with Lock (20V 7.5A, Default)
Power Supply Voltage	DC 9~36V
Power Connector	DC Jack 5.5mm/2.5mm
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) DC Surge Protection Reverse Protection

Environment	
Operating Temperature	-10°C to 50°C
Storage Temperature	-20°C to 60°C
Relative Humidity	10% to 80% (non-condensing)
Certification	UL 62368 Ed. 3, CE, FCC Class B, CB, UKCA
Vibration	With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis)
Shock	With SSD: 20G half-sin 11ms

Physical	
Dimensions	538 (W) x 329 (H) x 62 (D) mm
Weights	5.2 kg
Mounting	VESA Mount (75mm x 75mm/100mm x 100mm) Panel Mount (optional)

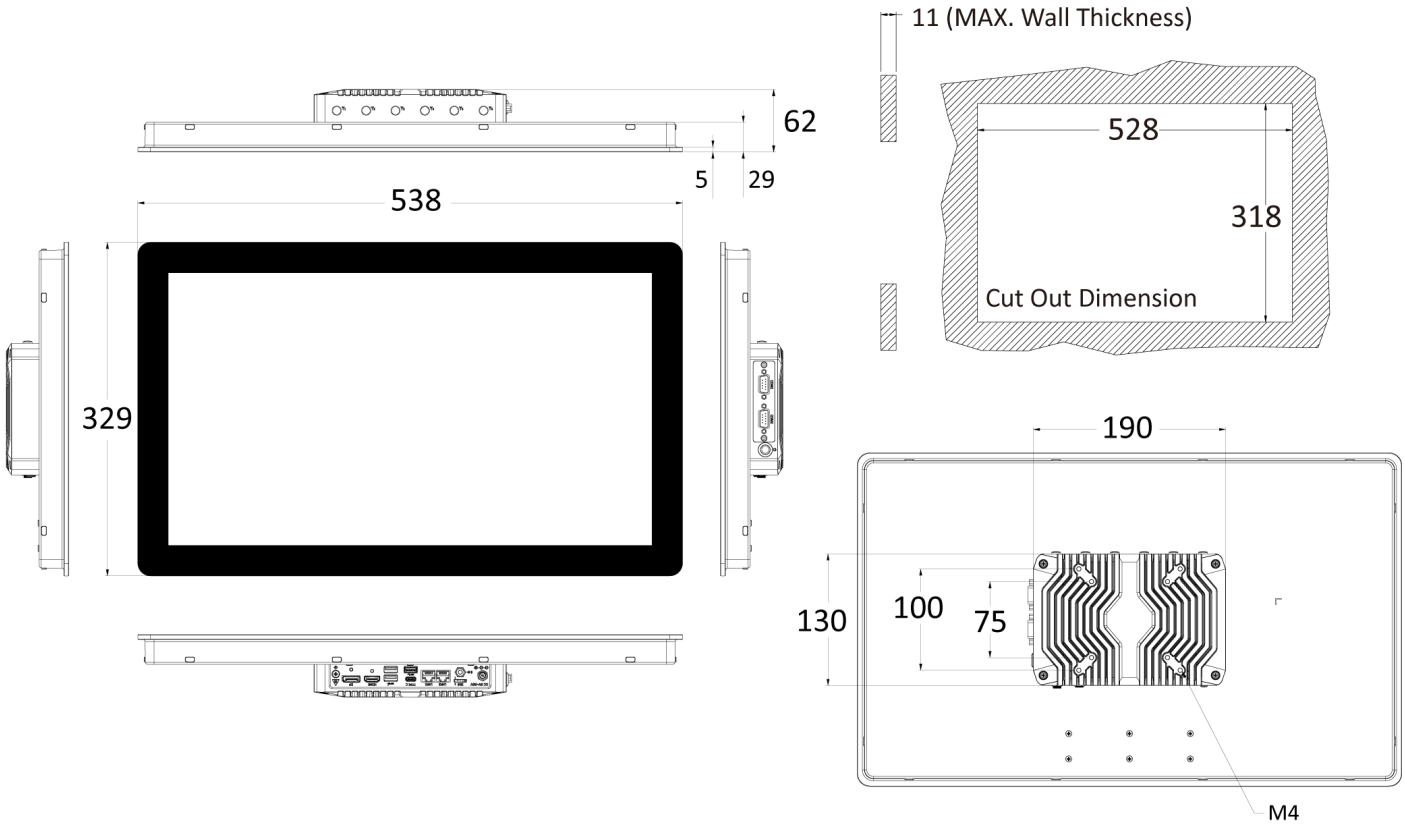
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout

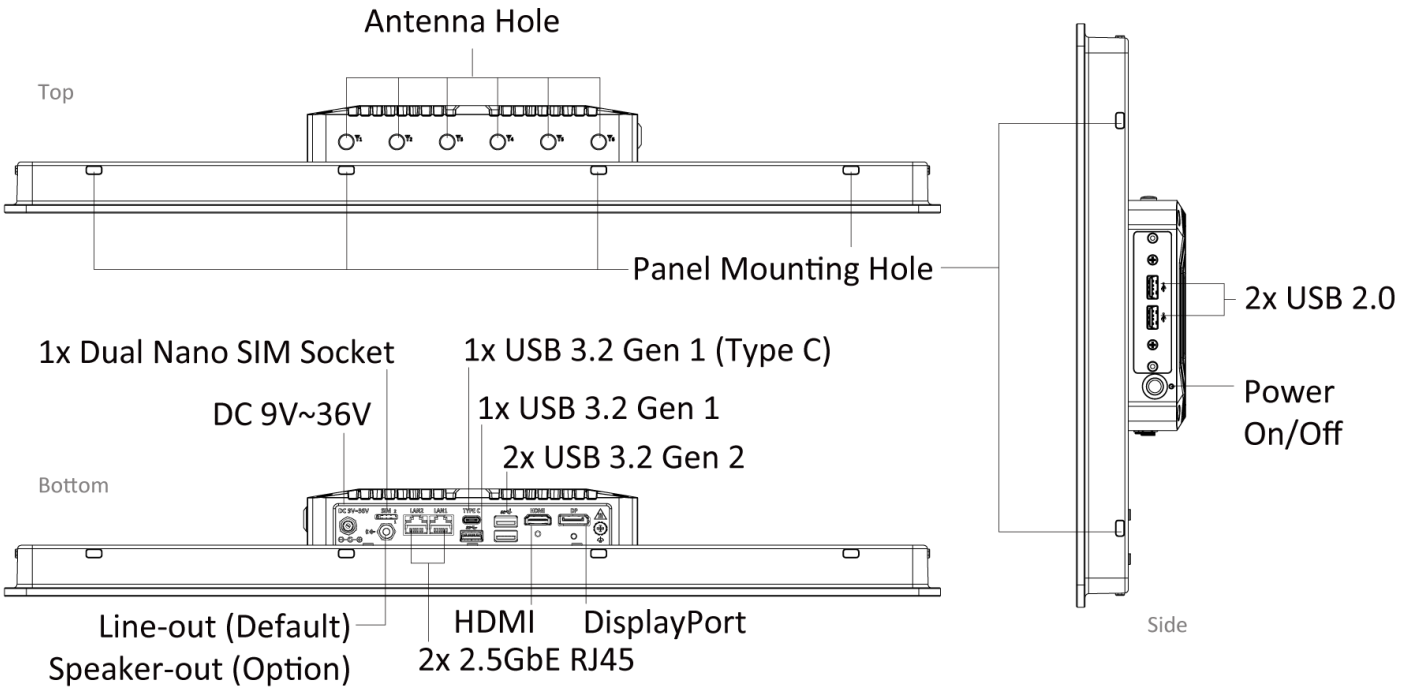


Dimension

Unit: mm

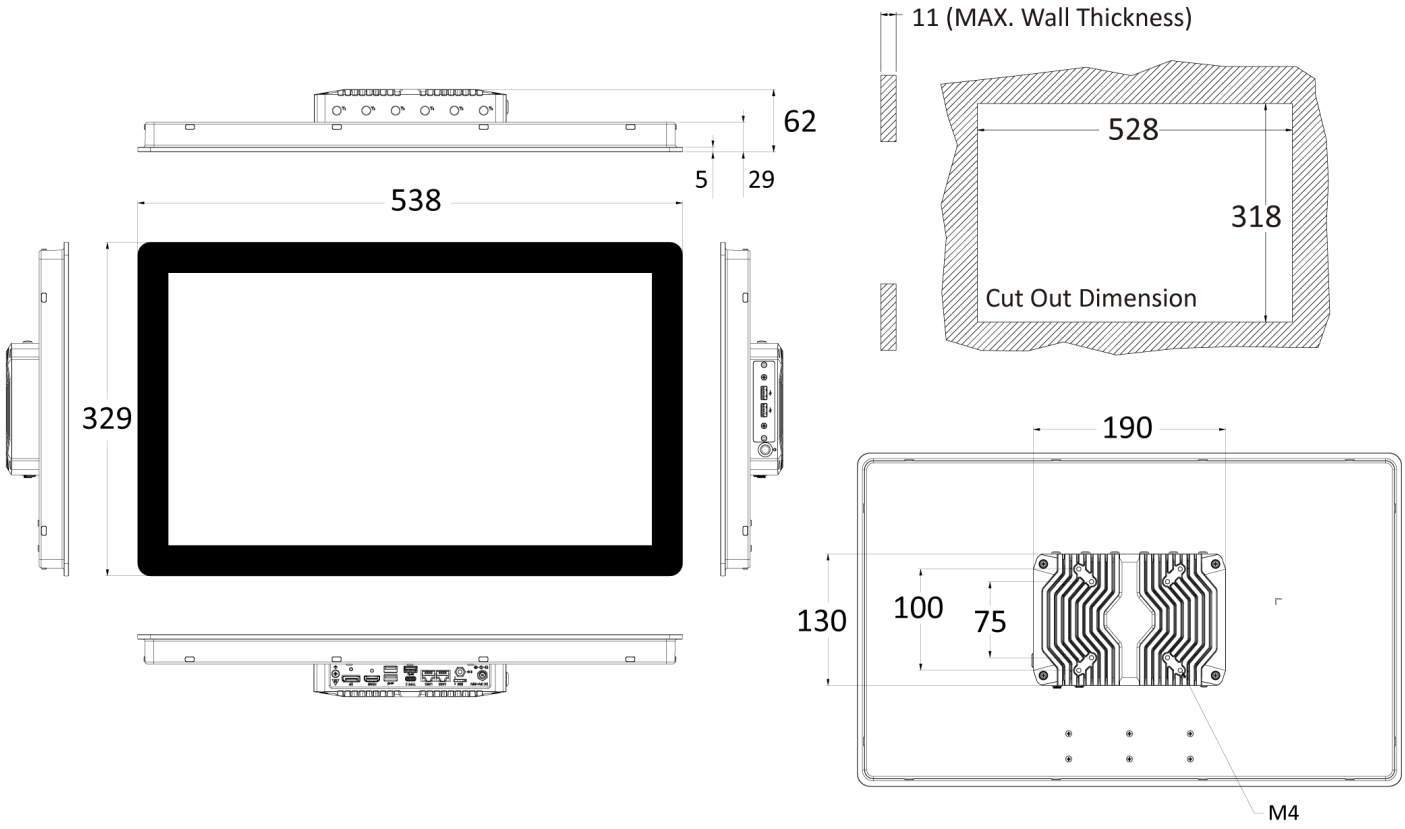


External I/O Mechanical Layout



Dimension

Unit: mm



Compliances and Standards

Shock	With SSD: 20G half-sin 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Vibration	With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis) IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Operating Temperature	-10°C to 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 B • CE • ICES-003 • UKCA
Safety	• UL Safety: UL62368-1, 3rd Ed., (cULus) • Test prcedure: CB Scheme • Standard: IEC 62368-1:2018

Available Models

Model No.	Description
AIO-W221-2L-N97-2C	AIO-W221-ASL-2L 21.5" Full HD Capacitive IP65 All In One Touchscreen Computer w/ Intel® X7000 and N Series Processors, 2x LAN, 3x USB-A, 1x USB-C, 2x COM, 1x DP, 1x HDMI
AIO-W221-2L-N97-2C-P	AIO-W221-ASL-2L 21.5" Full HD Capacitive IP65 All In One Touchscreen Computer w/ Intel® X7000 and N Series Processors, 2x LAN, 3x USB-A, 1x USB-C, 2x COM, 1x DP, 1x HDMI, w/ Power Adapter
AIO-W221-2L-N97-2U	AIO-W221-ASL-2L 21.5" Full HD Capacitive IP65 All In One Touchscreen Computer w/ Intel® X7000 and N Series Processors, 2x LAN, 3x USB-A, 1x USB-C, 2x USB, 1x DP, 1x HDMI
AIO-W221-2L-N97-2U-P	AIO-W221-ASL-2L 21.5" Full HD Capacitive IP65 All In One Touchscreen Computer w/ Intel® X7000 and N Series Processors, 2x LAN, 3x USB-A, 1x USB-C, 2x USB, 1x DP, 1x HDMI, w/ Power Adapter

Optional Accessories

Model No.	Description
1-E09A15001	Adapter Output 20V 7.5A 150W / Input 100-240V
1-TPWR00197	3P Terminal Block(Female) To DC Plug 5.5x2.5 With Lock_100 mm_For AIO Series
1-TADO00029	External Audio Speaker Cable 2W L=1000mm
1-TPCD00020	Power Cord, 3-pin US Type, 183cm
1-TPCD00021	Power Cord, 3-pin EU Type, 183cm
1-TPCD00022	Power Cord, 3-pin UK Type, 181cm
1-TPCD00023	Power Cord, 3-pin AS/NZS 3112 Type, 183cm
1-TPCD00024	Power Cord, 3-pin JAP Type, 183cm
3-WIFI0801S10	WIFI 6E Module KIT, Intel, 2T2R & BT 5.3
3-AI215040S10	AIO-W221 Panel Mount Bracket Kit
3-USB20K01S10	Dual USB 2.0 Cable Module Kit
3-2COM0K02S10	COM Cable Module Kit

Packing List

1x AIO-W221-ASL-2L Touchscreen Computer
1x Adapter 150W 20V 7.5A (selected models only)
1x 128G M.2 M-key SSD
1x 8GB DDR5 4800 MT/s

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
Schedule B	84.71

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