



ALL IN ONE TOUCHSCREEN COMPUTER

AIO-W221-MTL

21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra Series 1 Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP



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, 2x DP++ and LVDS/eDP
- Backlight lifetime 50,000 Hours

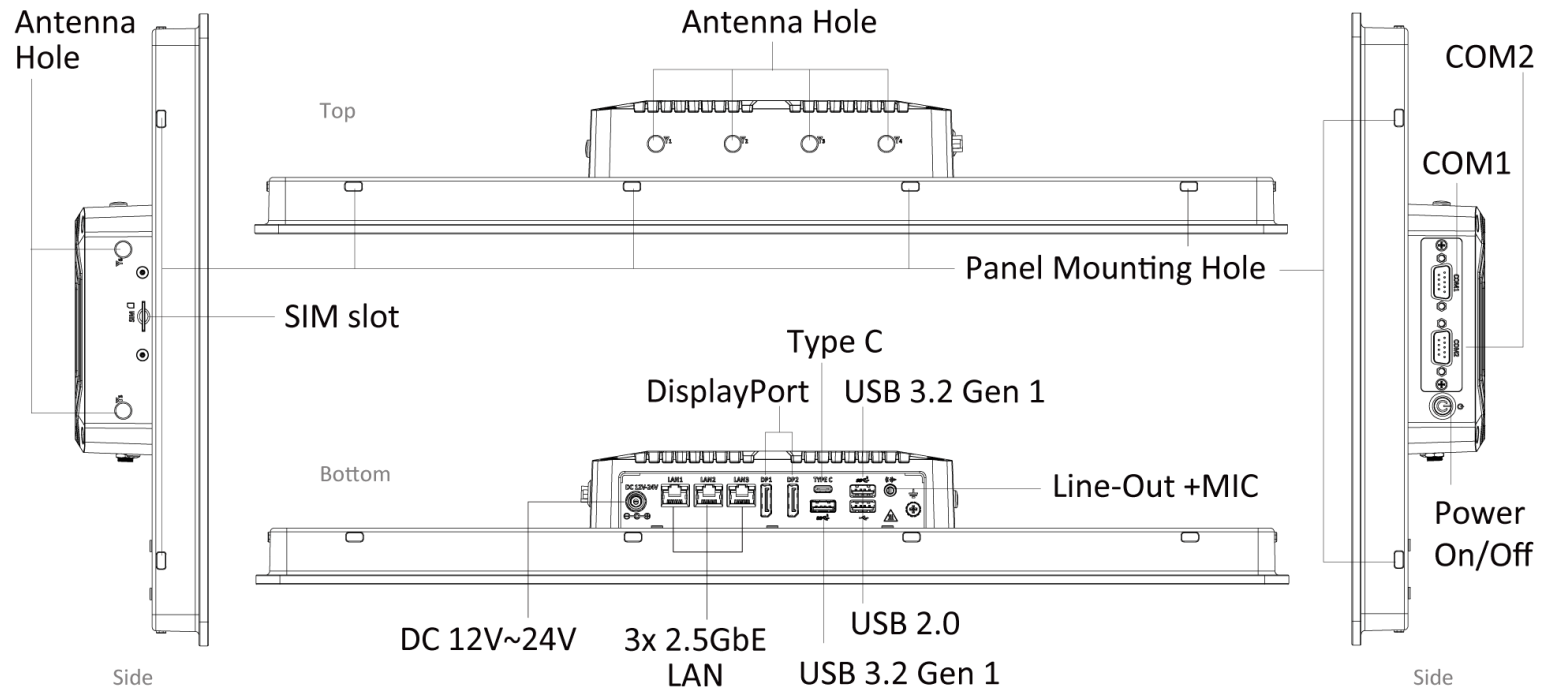
Specifications

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)
Touch	
Touch Type	Projected Capacitive Touch
Surface Hardness	7H / IK07
Multi-touch	10 point (Support Glove Mode)
Anti-noise	CS 10V rms
System	
Processor	
• Intel® Core™ Ultra 5 Processor 125U 12M Cache, up to 4.30 GHz (2+8+2 core)	
• Intel® Core™ Ultra 7 Processor 155U 12M Cache, up to 4.80 GHz (2+8+2 core)	
System Chipset	SoC integrated
System Memory	1x 262-Pin DDR5 5600 MT/s SO-DIMM. Max. 48GB (Non-ECC)
LAN Chipset	GbE1: Intel i226-LM 2.5GbE LAN PXE Support GbE2: Intel i226-V 2.5GbE LAN PXE Support GbE3: Intel i226-V 2.5GbE LAN PXE Support
Audio Codec	Realtek ALC897 High Definition Audio CODEC
BIOS	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	dTPM2.0, fTPM2.0
Storage	
M.2	1x M.2 M Key (2280, PCIe x4 Gen 4/SATA) support for NVMe/SATA SSD, Auto Detect
Expansion	
M.2	1x M.2 B Key (3042/3052, PCIe x2+USB 3.0+USB 2.0) support for 4G/5G 1x M.2 E Key (2230, PCIe+USB 2.0) for Wifi/Bluetooth
I/O	
DisplayPort	2x DisplayPort
COM	• COM 1: RS-232/422/485, COM 2: RS-232 • 2x USB2.0 (Side panel, Optional)
USB	1x USB 3.2 Type-C (5 Gbps) 2x USB 3.2 Gen 1 Type-A (5 Gbps) 1x USB 2.0 Type-A
LAN	3x 2.5GbE LAN
Audio	1x Line-Out +MIC
SIM	1x SIM Socket
Others	Support up to 6x Antenna (optional)
Operating System	
Windows	Windows 10 / Windows 11 LTSC
Linux	Ubuntu 22.04 / 24.04 LTS
Power	
Power Adapter	150W (20V/7.5A, Default)
Power Supply Voltage	DC 12~24V
Power Connector	DC Jack 5.5mm/2.5mm
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 A, CB, UKCA, IC
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 69 (D) mm
Weights	5.2 kg
Mounting	VESA Mount (75mm x 75mm/100mm x 100mm) Panel Mount (optional)

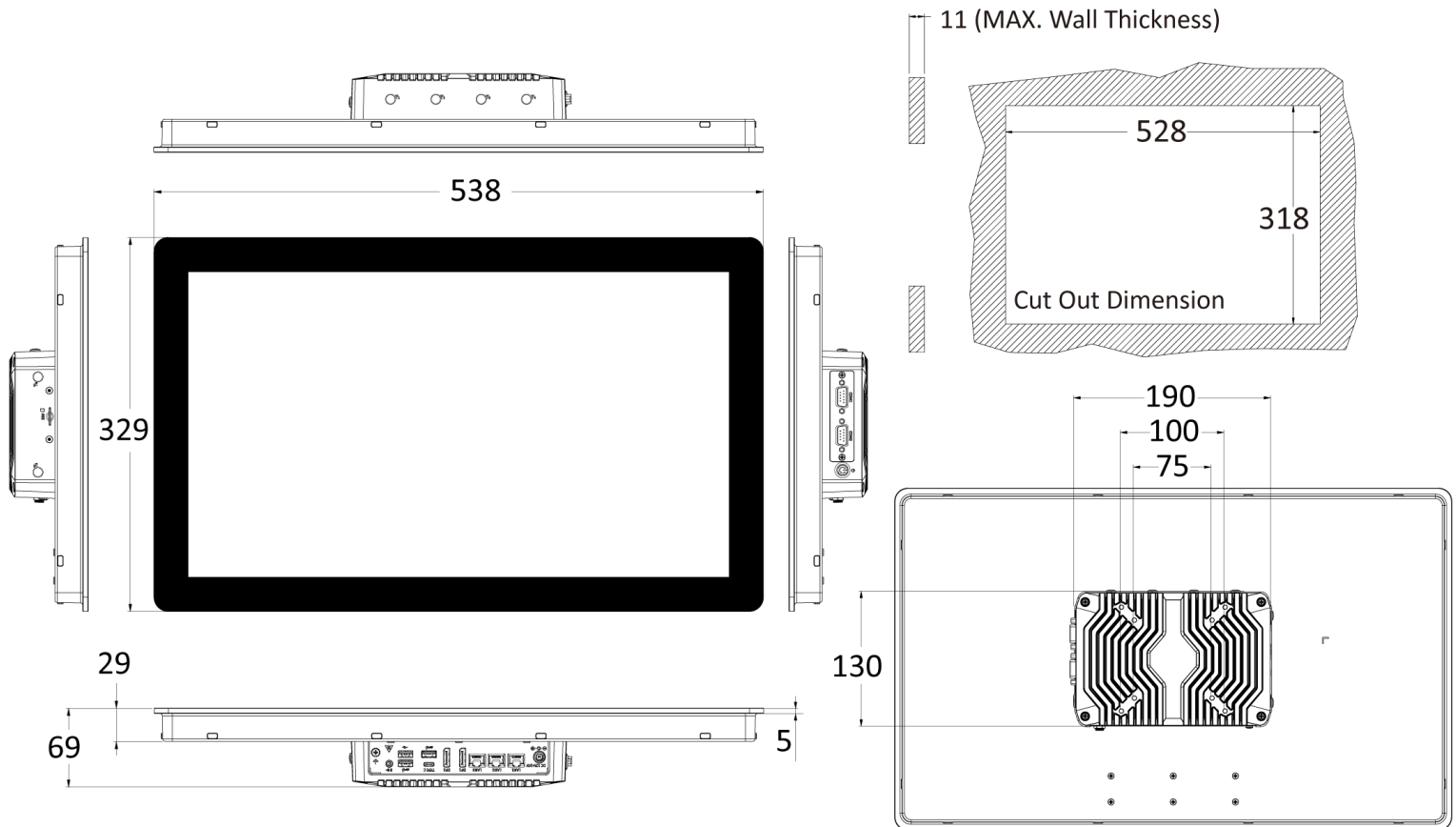
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



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 A (47 CFR part 15.109 and part 15.107) - CE - ICES-003 - UKCA
Safety	- UL Safety: UL62368-1, 3rd Ed., (cULus) - Test procedure: CB Scheme - Standard: IEC 62368-1:2018

Available Models

Model No.	Description
AIO-W221C-125U-P	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra 5 125U Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP, w/ Power Adapter
AIO-W221C-155U-P	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra 7 155U Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP, w/ Power Adapter
AIO-W221C-125U	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra 5 125U Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP
AIO-W221C-155U	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra 7 155U Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP

Optional Accessories

Model No.	Description
1-E09A15001	Adapter Output With Lock 20VDC 7.5A 150W / Input 100~240V
3-WIFI0801S10	WIFI 6E Module KIT, Intel, 2T2R & BT 5.3
3-AI215041S10	AIO-W221 Panel Mount Bracket Kit
1-TPWR00197	3P Terminal Block (Female) To DC Plug
1-TPCD00008	AC Power Cord, 3-pin US Type, 183cm
1-TPCD00009	AC Power Cord, 3-pin EU Type, 183cm
1-TPCD00011	AC Power Cord 3Pin UK Type 183cm
1-TPCD00014	AC Power Cord 3Pin JP/JIS Type 183cm
1-TPCD00015	AC Power Cord 2Pin JP/JIS Type 183cm

Packing List

1x AIO-W221-MTL Series Touchscreen Computer
 1x Adapter Output 20V 7.5A 150W
 1x 128G M.2 M Key NVMe SSD
 1x 8GB DDR5 5600 MT/s

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