ALL IN ONE TOUCHSCREEN COMPUTER

AIO-W221-ASL-3L

21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® N97 / Atom® x7835RE Processor, 3x LAN, 2x USB, 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 50,000 Hours

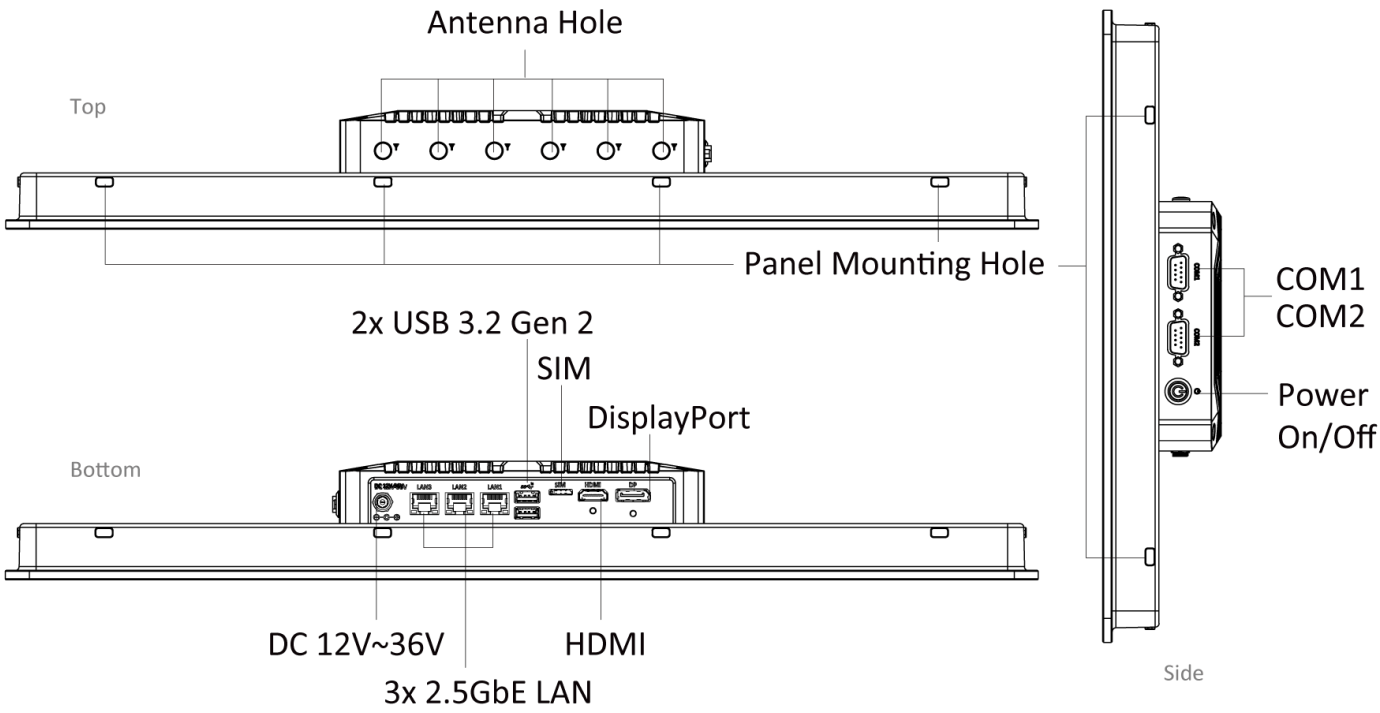
Specifications

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
System	
Processor	• 12th Gen Intel® Alder Lake-N Processor N97, 6M Cache, up to 3.60 GHz, 4 core 12W • Intel® Atom® x7835RE Processor 6M Cache, up to 3.60 GHz, 8 core 12W
System Chipset	SoC integrated
System Memory	1x 262-Pin DDR5 4800 MT/s SO-DIMM. Max. up to 16GB (Non-ECC)
LAN Chipset	GbE1~3: Intel i226V 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	TPM2.0
Storage	
M.2	128G M.2 B-Key SATA SSD (Default)
SATA	1x SATA 3.0 6Gb/s port Support AHCI (Option)
Expansion	
M.2	1x M.2 E-Key Support WiFi 6E/Bluetooth (Option) 1x M.2 B-Key Support SATA/4G LTE (Option)
I/O	
DisplayPort	1x DP 1.4a up to 4096x2304 @60Hz
HDMI	1x HDMI™ 1.4b up to 3840x2160 @30Hz
COM	COM 1: RS-232/422/485 COM 2: RS-232
USB	2x USB 3.2 Gen 2 (10 Gbps)
LAN	3x 2.5GbE LAN
SIM	1x Dual Nano SIM
Others	Support up to 6x Antenna (optional)
Operating System	
Windows	Windows 10 / Windows 11
Linux	Linux Ubuntu 22.04
Power	
Power Adapter	60W (12V 5A, Default)
Power Supply Voltage	DC 12~36V
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 62 (D) mm
Weights	5.2 kg
Mounting	VESA Mount (75mm x 75mm/100mm x 100mm) Panel Mount (optional)

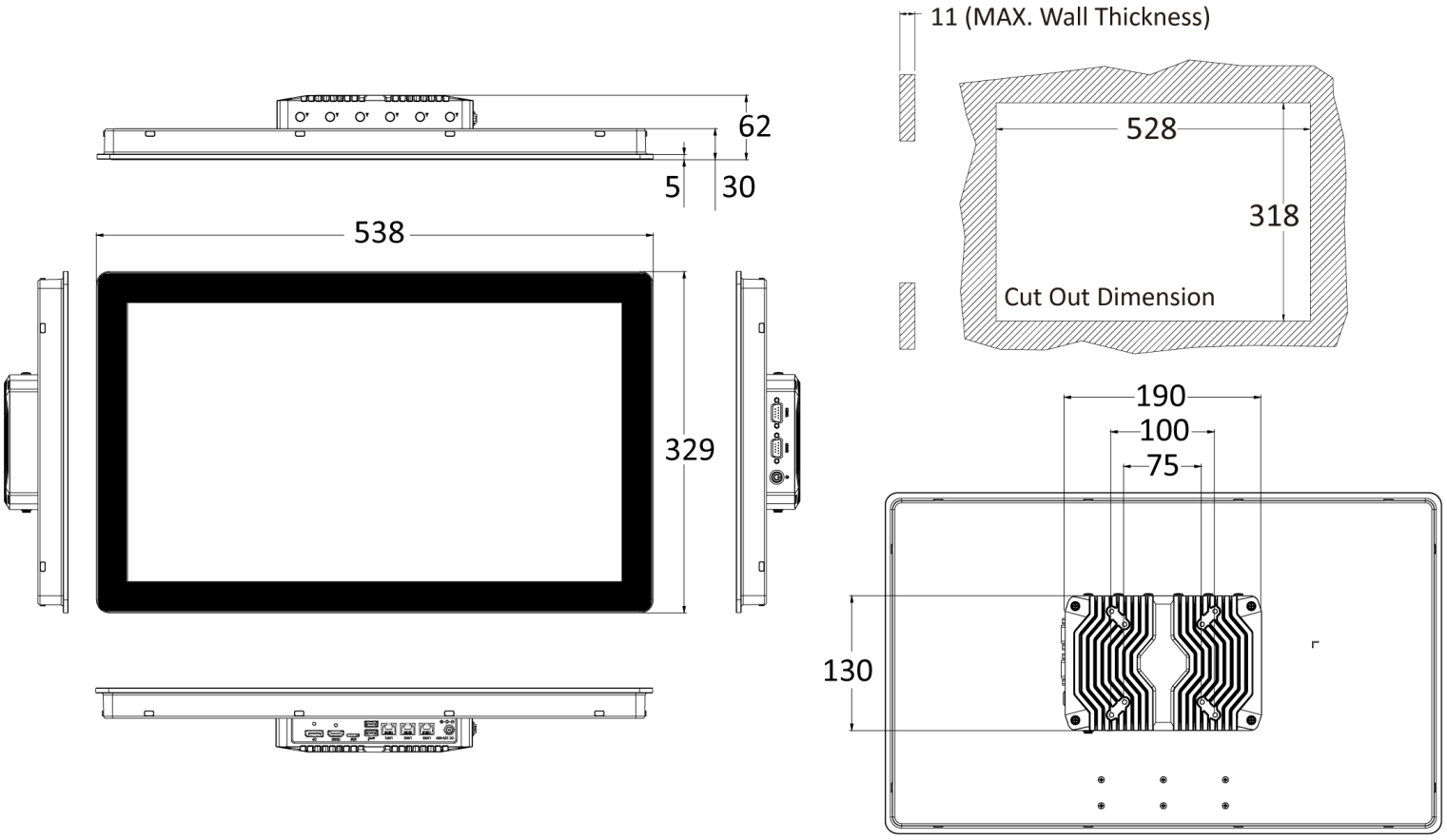
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



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 prcedure: CB Scheme • Standard: IEC 62368-1:2018

Available Models

Model No.	Description
AIO-W221-3L-N97-P	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® N97 Processor, 3x LAN, 2x USB, 2x COM, 1x DP, 1x HDMI, w/ Power Adapter
AIO-W221-3L-X7835RE-P	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Atom® x7835RE Processor, 3x LAN, 2x USB, 2x COM, 1x DP, 1x HDMI, w/ Power Adapter
AIO-W221-3L-N97	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® N97 Processor, 3x LAN, 2x USB, 2x COM, 1x DP, 1x HDMI
AIO-W221-3L-X7835RE	21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Atom® x7835RE Processor, 3x LAN, 2x USB, 2x COM, 1x DP, 1x HDMI

Optional Accessories

Model No.	Description
1-E09A06012	Adapter Output 12V 5A 60W / Input 100-240V
3-WIFI0801S10	WIFI 6E Module KIT, Intel, 2T2R & BT 5.3
1-TCOM00041	COM cable (CT-240125-01/CHEN PERNG)
3-AI215041S10	AIO-W221 Panel Mount Bracket Kit
1-TPWR00197	3P Terminal Block(Female) To DC Plug 5.5x2.5 With Lock_100 mm_For AIO Series
3-AI101011S10	AIO Series 2.5" SSD, Cable, Bracket

Packing List

1x AIO-W221-ASL-3L Series Touchscreen Computer
1x Adapter 60W 12V 5A (selected models only)
1x 128G M.2 B-Key SATA 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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