OPEN FRAME TOUCHSCREEN COMPUTER

HIO-W221-ADL

21.5" Full HD Capacitive IP65 Open Frame Touchscreen Computer With 12th Gen Intel® N Processor, 2x LAN, 4x USB, 1x DP, 1x HDMI



Features

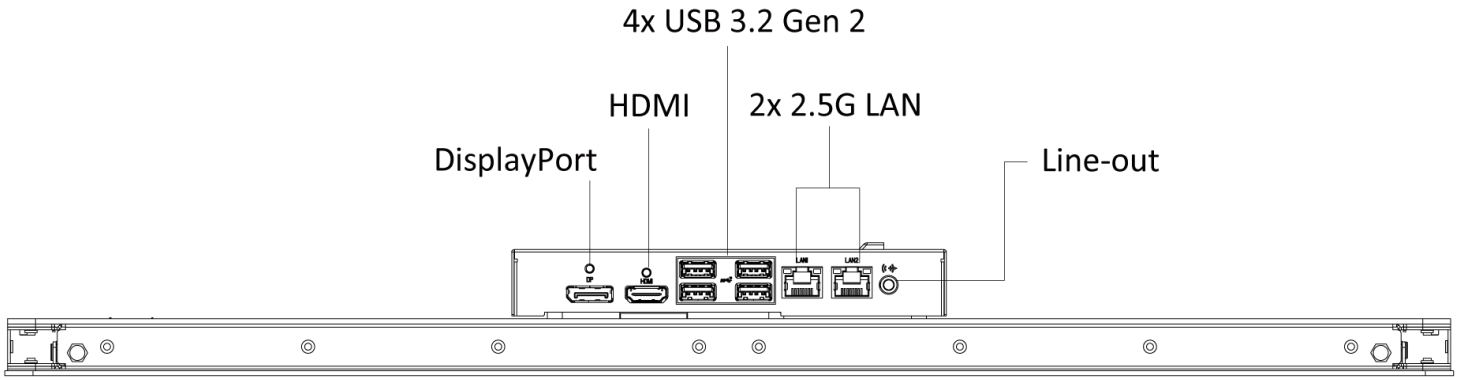
- 21.5" (16:9) Full HD Open Frame Touchscreen Computer
- World Class Certifications for Safety and Reliability: CE/FCC
- Front IP65 Rating for protection against water and dust
- Scratch Resistant 7H Glass Hardness
- Versatile Display Outputs; HDMI and DP
- Backlight lifetime Up to 50,000 Hours

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
Display Port	1x DP, support 4096 x 2304 Real 4K @60Hz
HDMI	1x HDMI, support 3840 x 2160 UHD@30Hz
LVDS	Default touchscreen LCD, support 1920 x 1200 WUXGA @60Hz
Multiple Display	Triple Independent Displays
Touch	
Touch Type	10-Point PCAP Touch
Surface Hardness	7H / IK07
System	
Processor	Intel® Processor N97 6M Cache, up to 3.60 GHz
System Chipset	SoC integrated
System Memory	1x DDR5 4800 MT/s SO-DIMM. Max. 16GB (Default: 8GB)
LAN Chipset	GbE1: Intel I225-V (Support Wake-on-LAN and PXE) GbE1: Intel I225-V (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC897
BIOS	AMI uEFI 8Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Storage	
M.2	128G M.2 B-Key SATA SSD (Default)
Expansion	
M.2	1x M.2 E-Key Support WiFi 6e (Optional)
I/O	
COM	2x RS-232/422/485 by internal cable
USB	6x USB 2.0 by internal cable 4x USB 3.2 Gen 2
LAN	2x 2.5GbE LAN
Audio	1x Audio out
Others	Support 2x Pifa 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 9~36V
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	CE, FCC Class A
Vibration	With SSD: 3 Grms (5 - 500 Hz, 0.5 hr/axis)
Shock	With SSD: 20G half-sin 11ms
Physical	
Dimensions	533 (W) x 325 (H) x 46 (D) mm
Weights	4.9 kg
Mounting	Open Frame Panel Mount, Wall Mount

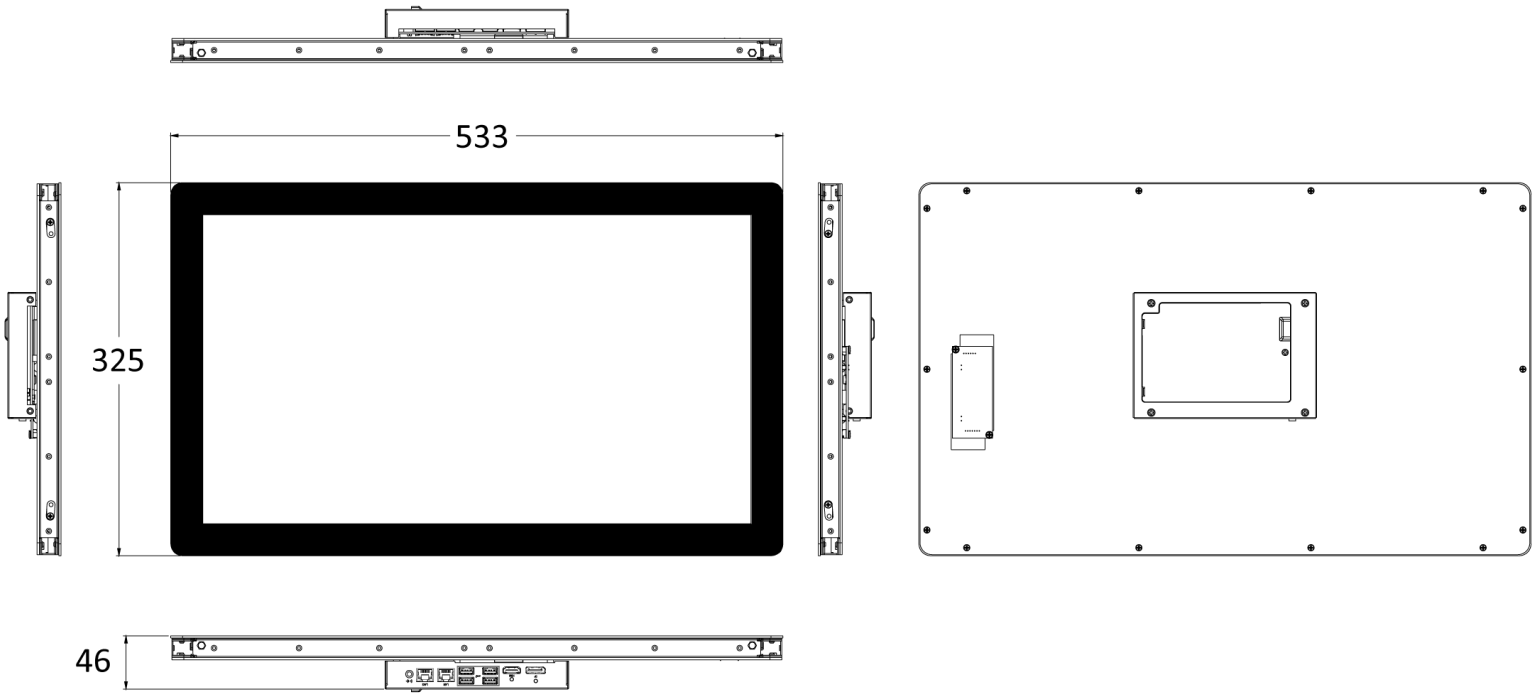
* All specifications and photos are subject to change without notice.

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

Available Models

Model No.	Description
HIO-W221-N97-P	21.5" Full HD Capacitive IP65 Open Frame Touchscreen Computer With 12th Gen Intel® N Processor, 2x LAN, 4x USB, 1x DP, 1x HDMI, w/ Power Adapter
HIO-W221-N97	21.5" Full HD Capacitive IP65 Open Frame Touchscreen Computer With 12th Gen Intel® N Processor, 2x LAN, 4x USB, 1x DP, 1x HDMI

Optional Accessories

Model No.	Description
1-E09A06012	Adapter Output 12V 5A 60W / Input 100-240V
3-WIFI0701S10	WIFI 6E Module KIT, Intel, 2T2R & BT 5.3
1-TCOM00046	COM Cable (ST-2403064/SHININ TECH)
1-TUSB00066	Dual USB 2.0 Cable (M-6133/CABLING)
3-HI215040S10	HIO-W221C Wall Mount Kit
3-HI101011S10	HIO Series 2.5" SSD, Cable, Bracket

Packing List

1x HIO-W221-ADL-N97 Open Frame Touchscreen Computer
1x DC jack to S4P Power Cable
1x Adapter 60W 12V 5A (selected models only)
1x 128G M.2 B-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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