

AURA-W121-MTL

Flagship Intel® MTL Industrial Panel PC:
Ultimate Power, Front-Access Control.

Features

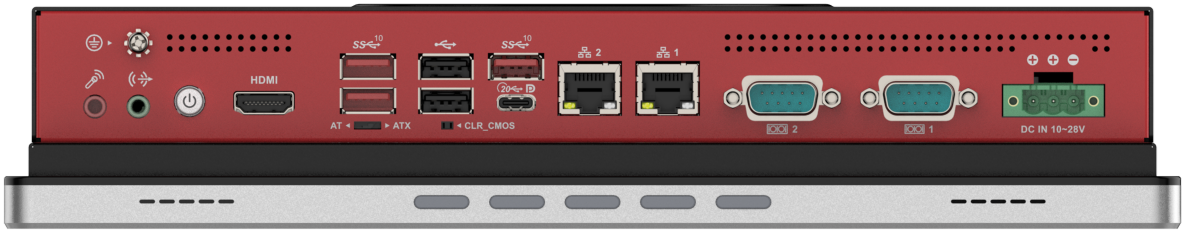
- Ultimate Performance: Intel® MTL CPU with up to 96GB DDR5 for Edge AI tasks.
- Front-Access Interaction: Built-in Camera, Speakers, and Hot Keys (Vol/Bri/Power) for easy control after mounting.
- Pro-Grade Touch: Advanced PCAP touch optimized for precision with industrial gloves or wet hands.
- Full-Size Portfolio: From 12.1" to 31.5" with a unified aesthetic, fitting everything from HMI to dashboards.
- Industrial Ruggedness: IP65 front panel and 10V~28V DC input for lasting stability in mission-critical applications.



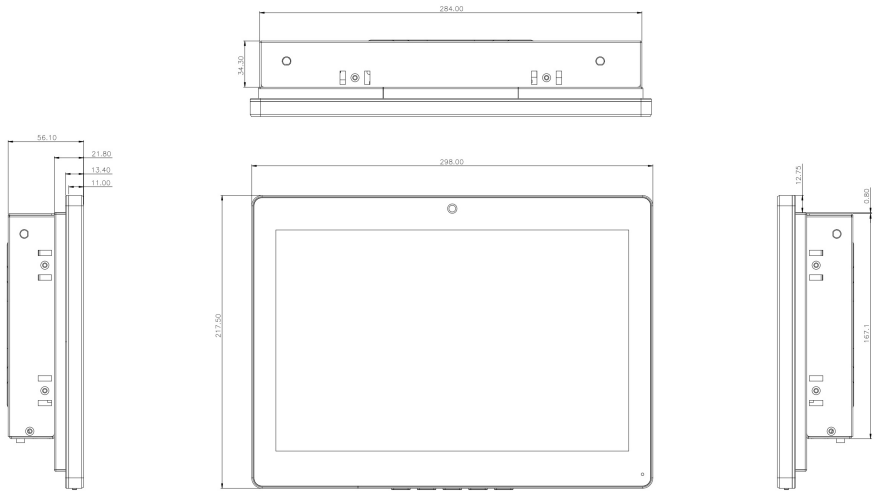
Specifications

MODEL NAME	AURA-W121-MTL
LCD Size	12.1" (16:10)
Resolution	1280(W) x 800(H)
Brightness(cd/m ²)	500
Contrast Ratio	1200: 1
LCD Color	16.7M
Viewing Angle (H-V)	170°/170°
Backlight MTBF(hrs)	50000
Touch Screen	PCAP with USB interface (anti-UV/AG coating)
Touch Controller	Capacitive: ilitek ILI2520
CPU	Intel® Core™ Ultra processors (Series 1) Intel® Core™ Ultra 7 Processor 155U Intel® Core™ Ultra 5 Processor 125U
Memory	Two 262-pin 5600 MT/s dual-channel DDR5 SO-DIMM (16GB pre-installed) (up to 96GB)
Ethernet	LAN1: Intel® I226LM 2.5GbE controller LAN2: Intel® I226V 2.5GbE controller
Expansion	1 x 2230 E-key (PCIe Gen3 x 1 / USB2.0) 1 x 2280 M-key (PCIe Gen4 x 4) 1 x 3042/3052 B-key (PCIe Gen3 x 1 / USB3.2 Gen1 / USB2.0) 1 x On-board SIM card socket (hinge type) for M.2 B key
I/O Ports & Switches	1 x HDMI 1.4 (4K@30) 1 x USB Type-C (USB3.2 Gen2 & Display port) 2 x RS232/422/485 (DB9) 3 x USB 3.2 Gen2 Type-A 2 x USB2.0 Type-A 1 x 3-pin terminal block 1 x Power button 1 x ATX Switch 1 x Clear CMOS
TPM	Intel® PTT (Firmware TPM 2.0) Optional TPM module via 20-pin header (IEI TPM module P/N:TPM-IN03)
Audio	1 x Mic 1 x Line-out 2 x internal 2W speaker
Storage	1 x Onboard NVMe (optional, MOQ required)
Camera	720P Wide Angle Fixed Focus
Hot key	5 Keys (Volume +/-, Brightness +/-, Power)
Chassis Open	optional (reserve Chassis Open switch)
Construction Material	Aluminum front frame and sheet metal rear cover
Mounting	Panel Mount, Rack Mount, VESA 100 x 100
Enclosure Color	Black
Dimensions (LxWxH) (mm)	298.00 x 217.50 x 56.10
Cutout Dimensions	288.60 x 195.10
Weight (Net/Gross) (kg)	3.2kg / 5.0kg
Operating Temperature	-20°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Humidity	10% to 90%@40°C (non-condensing) (50%@50°C)
Vibration	Operation: Random Vibration Mode, MIL-STD-810H 514.8C-I (x~0.21Grms, y~0.76Grms, z~1.08Grms) Non-OP: Sine Vibration Mode, IEC-60068-2-06 (1Grms)
Shock	Operation: IEC68-2-27 half-sine, 5G, 11ms, 100 shocks Non-OP: IEC68-2-27 half-sine 15G, 11ms, 100 shocks
IP Level	IP 65 compliant front panel
Safety & EMC	CE, FCC
Power Input	10-28V DC
Power Consumption	12 @ 2.78A (Ultra 5 125U with 16GB Memory, 256GB SSD, Windows 11 OS)
OS	Microsoft Windows® 10/11 IoT, Linux

Fully Integrated I/O



Dimensions (Unit: mm)



Ordering Information

PART NO	DESCRIPTION
AURA-W121-MTL-U7AD-R10	12.1" 500 cd/m ² 1280 x 800 Panel PC with Intel® Core™ Ultra 7 155U Processor (12M Cache, up to 4.80 GHz), TDP 15W, 16GB DDR5, black, 10-28V DC input, PCAP touch, with Camera & speaker & hotkeys, R10
AURA-W121-MTL-U5AD-R10	12.1" 500 cd/m ² 1280 x 800 Panel PC with Intel® Core™ Ultra 5 125U Processor (12M Cache, up to 4.30 GHz), TDP 15W, 16GB DDR5, black, 10-28V DC input, PCAP touch, with Camera & speaker & hotkeys, R10

Packing List

ITEM
1 x Panel Mount Kit
1 x 3-pin Terminal block plugs
1 x Screw pack
1 x QIG

Options

ITEM	PART NO	DESCRIPTION
Stand	STAND-C19-R10	VESA 100x100mm, 75x75mm Monitor Stand, support up to 15kg, Black color, For 12"~23.8"
Wall Mount	AFLWK-19B	VESA 100x100mm Monitor Wall Mount Kit with Retention Screw, Silver color, For 12"~23.8"
Rack mount kit	FRKW12-DM2-R10	12" 16:10 monitor rack mount kit, black color
Power Adapter*	63040-010120-300-RS	Adapter Power;FSP120-AHAN3;9NA1206708;Active PFC;Vin:90~264VAC;120 W;Dim:75.6*151.3*25.4mm;Plug=6.5mm;Cable=1500mm;Erp(NO LOAD 0.15 W);Vout:12VDC;Din 4Pin/lock
Power Cord	32702-003600-100-RS	European Standard (VDE),(A)PLUG:LT-322(16A 250V);(B)CONNECTOR:LT-501(1 0A 250V),1m
DC Power Conversion Cable	32102-070400-100-RS	Power Adapter Cable, Power DIN 4-Pin (F) to 3-Pin Terminal Block, 200mm
WIFI Module	EMB-WIFI-KIT02I3-R10	2T2R M.2 wifi module kit for embedded system, IEEE802.11a/b/g/n/ac/ax, 1 x M.2 AE Key Wireless LAN & Bluetooth 5.2; Intel; AX210.NGWWG Module, 2 x RF cable, 2 x Antenna; RoHs
M.2 SSD Heatsink	M2-SSD-HS-01	M.2 2280 SSD Heatsink, Rated for 3W heat dissipation
TPM Module	TPM-IN03-R10	20-pin Infineon SPI TPM2.0 module, software management tool
Chassis Open Cable	19800-032500-100-RS	Chassis Open Cable
*The power adapter needs to be used with the 32102-070400-100-RS DC Power Conversion Cable		