# ALAD-U2350T(P)

23.8" Full HD Intel Core Ultra 5 Platform Fanless AI Panel PC
Suitable for AI applications such as basic AI reasoning and local lightweight AI model data processing.

JHCTECH

IoT Computer Connecting the Dots

Industrial Panel Computer
ALAD Series



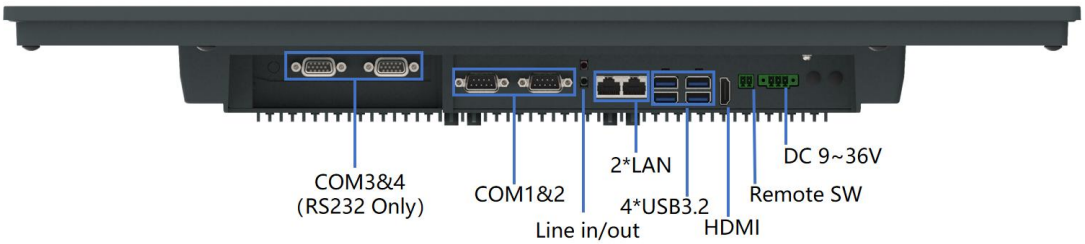
## Key Features

- Aluminum die–casting chassis, fanless design
- 23.8'' TFT LCD, Multi-point capacitive/Resistive Touch
- Intel® Meteor Lake Core™ Ultra 5 125U/125H CPU
- Intel® NPU AI Boost, Intel® Arc™ graphics
- 1*DDR5 5600 SODIMM, up to 48GB
- 1*Mini PCIe, 1*M.2 B-Key，1*M.2 M-Key
- 4*COM, 2*LAN, 4*USB3.2,1*8-bit DIO(opt.)
- 2.5” SATA Bay, 1*mSATA, 1*Line in/out, 2*3W Speaker
- Optional 1*PCIeX4 slot (PCIEX4 signal) or 1*PCI slot
- DC 9~36V input，IP65 rating for the front panel
- Standard VESA mount and panel mounting

## Description

ALAD-U2350T(P) is an industrial computer designed for AI applications, equipped with Intel® Meteor Lake-U series processors. Based on a modular architecture, high-performance NPU, and Arc™ GPU, it meets the needs of basic AI inference, local lightweight AI model operations, and other AI applications. Additionally, it can be optionally equipped with Intel® Meteor Lake-H series processors to achieve higher power consumption design and performance release, endowing the product with high-throughput parallel AI computing capabilities for continuous high-load AI task processing.

## I/O View



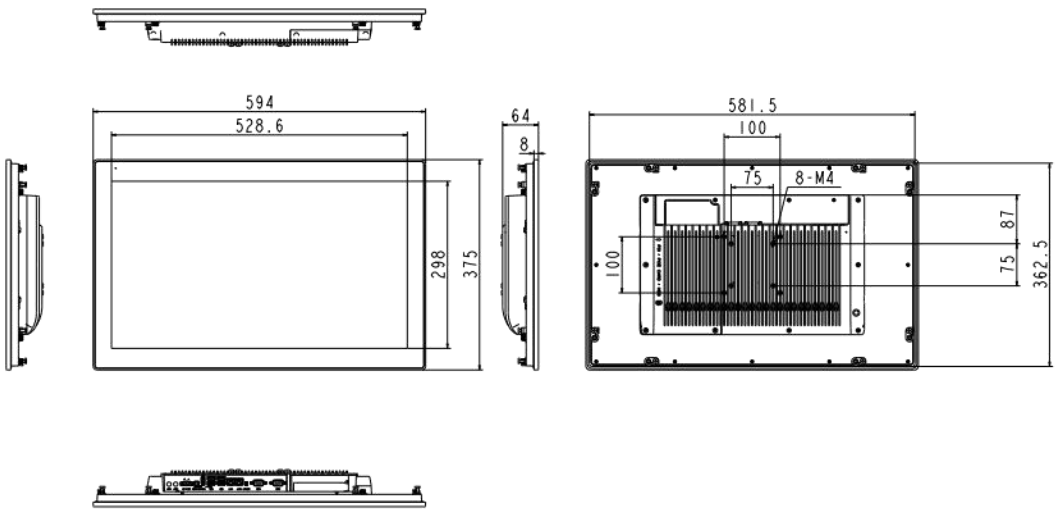

## SPEC.

| | | |
|---|---|---|
| System | CPU | Intel® Meteor Lake Core™ Ultra 5 125U/125H CPU，ULT SoC, TDP 15W/28W |
| | Chipset | Intel® CPU SoC MCP |
| | System memory | 1*DDR5 5600 MHz SODIMM, up to 48GB |
| | BIOS | AMI EFI BIOS, 128Mbit SPI flash memory |
| | Storage | 1*2.5'' SATA HDD bay, support SATA3.0 6Gbps HDD/SSD; 1*mSATA，1*M.2 M-Key Type 2280 |
| | Display | 23.8 "1920*1080@60Hz TFT LCD, 1*HDMI for extended display<br>Intel® Graphics, Intel® Arc™ graphics, Supports DirectX12.2, OpenGL 4.6 and OpenCL 3.0<br>HDMI 2.1 4096x2304@60Hz, DP 1.4 7680x4320@60Hz, eDP 3820*2400@120Hz |
| | Expansion | 1*Mini PCIe (PCIe&USB signal), supports a functional module with PCIe or USB signals<br>1*M.2 B-Key Type 3042/3052 with SIM card slot, supports 4G LTE/5G NR<br>Optional a PCIeX 4 slot (X4 signal) or a 32-bit PCI slot extension<br>Optional M.2 AI Acceleration Module (26 TOPS) |
| | Audio | Realtek ALC897 controller, support 5.1 channel, 2*3W Speaker |
| | Real I/O | 4*COM: 2*RS232/422/489, 2*RS232, DB9; 1*HDMI; 1*Line out; 1*Line out; 4*USB3.2, 2*RJ45<br>1*3 pin DC-IN terminal pin; 1*Remote SW; 1*PCIeX4 or 1*PCI slot is optional with COM3&COM4 |
| | Front pane | IP65 rating |
| | LAN | 2*Intel I226V PCIe Gig. Ethernet, 10/100/1000Mbps, support WOL |
| | Control SW/LED | Power LED, 1*CMOS, 1*AT/ATX, 2-pin terminal remote switch |
| | Power Supply | DC to DC: 9~36V input |
| | OS | Windows 11*IoT enterprise， Windows 10*IoT enterprise，SUSE，Ubuntu，<br>Wind River，Red Hat*Enterprise，Wind River VxWorks*7，Yocto |
| | Construction | Aluminum die–casting front bezel , fin–shaped radiator shell |
| Mechanical & Environmenal | Operating Temperature | –10~60℃ (14~140 °F) |
| | Storage Temperature | –20~70℃ (-4~158 °F) |
| | Storage Humidty | 10~95%@40 , non–condensing |
| | Shock | 10G peak acceleration(duration 11ms), in operating with HDD |
| | Vibration | 1G 5~500Hz, in operating with HDD |

| | | |
|---|---|---|
| Mechanical & Environmental | Mounting | Panel mounting, VESA 100*100 and 75*75mm, Rack mounting |
| | Dimension | (W*H*D): 594*375*64mm; mounting cut out(W*H): 583*364 mm |
| | Net Weight | 7.85KG |
| | EMC | CE,FCC Class A |
| LCD | Type | 23.8'' TFT LED backlight |
| | Resolution | 1920*1080@60Hz |
| | Color | 16.7M |
| | Pixel Pitch(mm) | 0.2745×0.2745(mm) |
| | Brightness(cd/m2) | 250 |
| | Viewing Angle | 89°(left), 89°(right), 89°(up),89°(down) |
| | Operating Temperature | 0~50℃ (32~122°F) |
| | Backlight Lifetime | 50000 Hours |
| Touch | Type | Projected capacitive touch |
| | Surface Hardness | ≥6H |
| | Light Transmittance | 90% |
| | Interface | USB |
| | Consumption | +5V @300mA |
| | OS | Windows/Linux |
| | Click Lifetime | 35 million times |

## Dimension

Unit: mm




## Ordering Info

| Model NO. | CPU | Capacitive Touch Screen(TP) | Description |
|---|---|---|---|
| ALAD-U2350T(P)/S001 | Core™ Ultra 5 125U | Projected capacitive touch | Edge AI Industrial panel computer, 23.8'' TFT LCD, 4*COM, 4*USB3.2, 2*LAN, 1*HDMI,1*Mini PCIe, 1*M.2 B-Key , 1*M.2 M-Key , 1*Line in/out, 1*2.5" SATA Bay, 1*mSATA, 2*3W Speaker, DC 9~36V |
| ALAD-U2350T(P)/S002 | Core™ Ultra 5 125H | | |
| AI-Card | M.2 AI Acceleration Module | | |
| ECX-168 | 1*PCIeX4 slot( X4 signal) (non COM3&4 in use) | | |
| ECI-169 | 1*32-bit PCI slot (non COM3&4 in use) | | |
| PA-60DC12 | AC/DC power adapter, DC12V@5A ,60W | | |
| PA-120DC19 | AC/DC power adapter, DC19V@6.32A ,120W | | |