

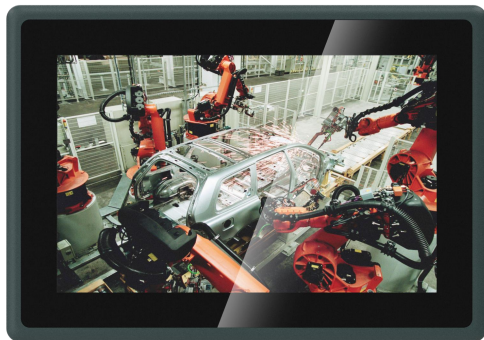
# ALAD-K1050T/T(P)

10.1" TFT LCD Capacitive/Resistive Touch, Intel® Tigerlake CPU, 2\*COM, 2\*LAN, 4\*USB3.2, 1\* Line out, 1\*2.5 " SATA bay, 1\*mSATA, DC 9~36V

**JHCTECH**

IoT Computer  
Connecting the Dots

Industrial Panel Computer  
ALAD Series



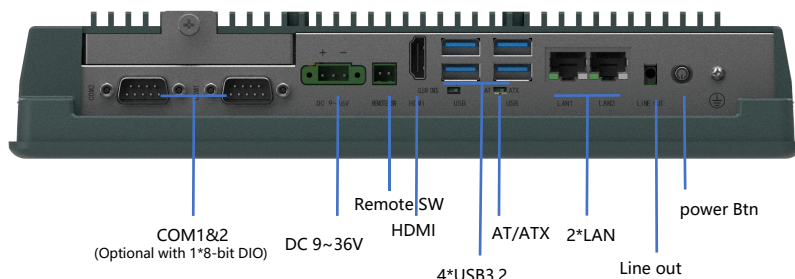
## Key Features

- Aluminum die-casting chassis
- 10.1" TFT LCD, Multi-point capacitive/5 wire resistive touch
- Intel® Tigerlake CPU, fanless design
- 1\*DDR4 3200 SODIMM, up to 32GB
- 1\*Mini PCIe, 1\*M.2 B-Key Type 3042/3052
- 2\*COM, 2\*LAN, 4\*USB3.2, 1\*8-bit DIO (Optional with COM1/2)
- 2.5" SATA Bay, 1\*mSATA, 1\*Line out, 2\*2W Speaker
- DC 9~36V power input
- Standard VESA mount and panel mounting

## Description

The ALAD-K1050T/T(P) is a tablet powered by Intel®Tiger lake U series processors. It adopts 10.1 "1280\*800 resolution LCD and fully fits surface projection multi-point capacitive/5 wire resistive touch screen. The product has a comprehensive I/O interface, supporting 1\*2.5 "SATA disk and 1\*mSATA dual storage; Built-in 1\*Mini PCIe and 1\*M.2 3042/3052 expansions, wide voltage DC power supply from 9 to 36V, aluminum die-cast body without fan heat dissipation, various installation modes, suitable for intelligent MES system and device management HMI.

## I/O View



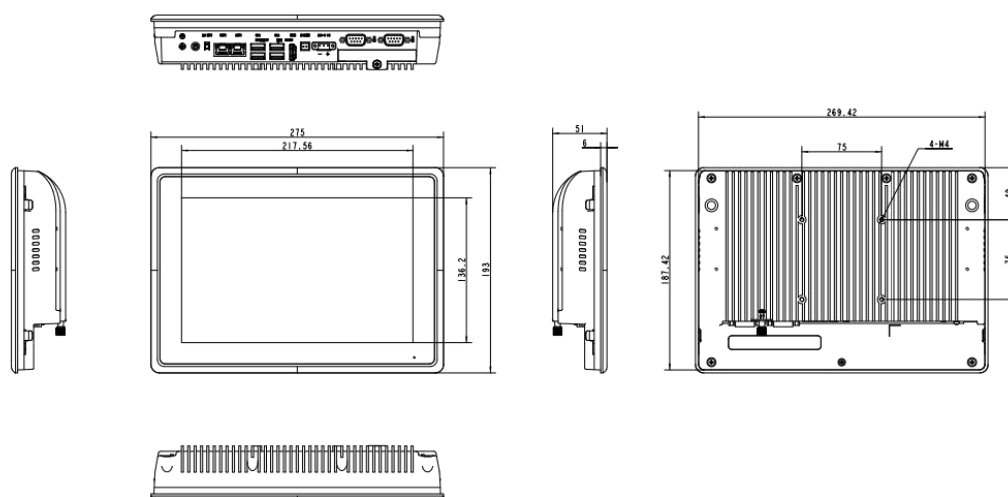
## SPEC.

|                            |                       |                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                     | CPU                   | Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W                                                                                                                                                                                  |
|                            | Chipset               | Intel® CPU SoC MCP                                                                                                                                                                                                                                  |
|                            | System memory         | 1*DDR4 3200 MHz SODIMM, up to 32GB                                                                                                                                                                                                                  |
|                            | BIOS                  | AMI EFI BIOS, 128Mbit SPI flash memory                                                                                                                                                                                                              |
|                            | Storage               | 1*2.5" SATA HDD bay, support SATA3.0 6Gbps HDD/SSD; 1*mSATA                                                                                                                                                                                         |
|                            | Display               | 10.1 "1280*800@60Hz TFT LCD, 1*HDMI for extended display<br>Intel UHD Graphics or iRIS® Xe Graphics, Supports the Intel DL boost deep learning to strengthen technology, DirectX12.1, OpenGL 4.6 and OpenCL 3.0, HDMI Max resolution 4096*2304@60Hz |
|                            | 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                                                                                        |
|                            | Audio                 | Realtek ALC897 controller, support 5.1 channel, 2*2W Speaker                                                                                                                                                                                        |
|                            | Real I/O              | 2*COM: 2*RS232/422/485; 1*HDMI; 1*Line out; 4*USB3.2 Type A ; 2*RJ45;<br>1*3 pin DC-IN terminal pin; 1*Remote SW                                                                                                                                    |
|                            | Front I/O             | /                                                                                                                                                                                                                                                   |
|                            | LAN                   | 2*Intel 210 AT 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, consumption: 34.56W (CPU i7-1165G7, 8G DDR4, 128G SSD)                                                                                                                                                                       |
|                            | OS                    | Windows 11*IoT enterprise, Windows 10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto                                                                                                            |
| Mechanical & Environmental | Construction          | Aluminum die-casting front bezel , fin-shaped radiator shell                                                                                                                                                                                        |
|                            | Operating Temperature | -20~50°C                                                                                                                                                                                                                                            |
|                            | Storage Temperature   | -20~60°C                                                                                                                                                                                                                                            |
|                            | Storage Humidity      | 10~95%@40 , non-condensing                                                                                                                                                                                                                          |
|                            | Shock                 | 10g peak acceleration(duration 11ms), in operating with HDD                                                                                                                                                                                         |
|                            | Vibration             | 1g 5~500Hz, in operating with HDD                                                                                                                                                                                                                   |
|                            | Mounting              | Panel mounting (Cut out: 403*251mm), VESA 75*75mm and 100*100mm                                                                                                                                                                                     |
|                            | Dimension             | (W*H*D): 270*188*51mm                                                                                                                                                                                                                               |
|                            | Net Weight            | 1.85Kg                                                                                                                                                                                                                                              |
|                            | EMC                   | CE,FCC Class A                                                                                                                                                                                                                                      |

|       |                       |                                          |                        |
|-------|-----------------------|------------------------------------------|------------------------|
| LCD   | Type                  | 10.1" LED backlight                      |                        |
|       | Resolution            | 1280*800@60Hz                            |                        |
|       | Color                 | 16.2M                                    |                        |
|       | Pixel Pitch(mm)       | 0.17925 *0.17925(mm)                     |                        |
|       | Brightness(cd/m2)     | 350                                      |                        |
|       | Viewing Angle         | 85°(left), 85°(right), 85°(up),85°(down) |                        |
|       | Operating Temperature | 0~50°C                                   |                        |
|       | Backlight Lifetime    | 15000 Hours                              |                        |
| Touch | Type                  | Projected capacitive touch               | 5 wire resistive touch |
|       | Resolution            | gapless                                  | gapless                |
|       | Light Transmittance   | ≥85%                                     | 83%                    |
|       | Interface             | EETI Industrial grade                    | USB                    |
|       | Consumption           | +5V @300mA                               | +5V @ 200mA            |
|       | OS                    | Windows/Linux                            | Windows, Linux         |
|       | Click Lifetime        | 3 billion times                          | 35 million times       |

## Dimension

Unit: mm



## Ordering Info

| Model NO.            | CPU                                | TOUCH                         | Description                                                                                                                                                                          |
|----------------------|------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALAD-K1050T/ S001    | Intel® Core I3-1115G4              | 5 wire resistive<br>Touch     | Industrial panel computer, 10.1" LCD,<br>2*COM, 4*USB3.2, 2*LAN, 1*HDMI,1*Mini<br>PCIe, 1*M.2 B-Key , 1*Line out,<br>1*2.5" SATA Bay, 1*mSATA, 2*2W<br>Speaker, DC 9~36V power input |
| ALAD-K1050T/ S002    | Intel® Core I5-1135G7              |                               |                                                                                                                                                                                      |
| ALAD-K1050T/S003     | Intel® Core I7-1165G7              |                               |                                                                                                                                                                                      |
| ALAD-K1050T/S004     | Intel® Celeron 6305E               |                               |                                                                                                                                                                                      |
| ALAD-K1050T(P)/ S001 | Intel® Core I3-1115G4              | Projected Capacitive<br>Touch |                                                                                                                                                                                      |
| ALAD-K1050T(P)/ S002 | Intel® Core I5-1135G7              |                               |                                                                                                                                                                                      |
| ALAD-K1050T(P)/ S003 | Intel® Core I7-1165G7              |                               |                                                                                                                                                                                      |
| ALAD-K1050T(P)/ S004 | Intel® Celeron 6305E               |                               |                                                                                                                                                                                      |
| PA-60DC12            | AC/DC power adapter, DC12V@5A ,60W |                               |                                                                                                                                                                                      |