

ALAD-K1850T(P)

18.5" TFT LCD Capacitive Touch, Intel® Tigerlake CPU, 4*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



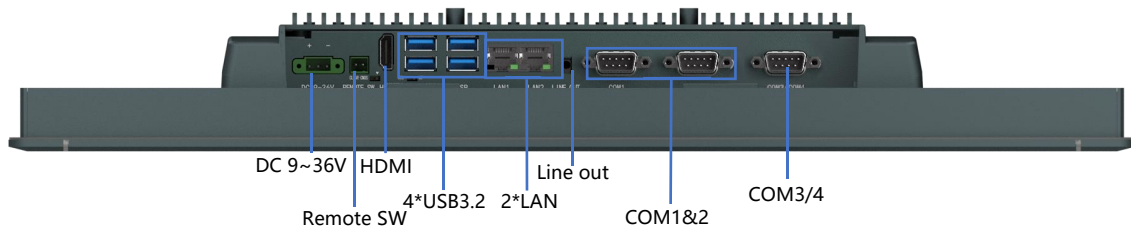
Key Features

- Aluminum die-casting chassis
- 18.5" TFT LCD, Multi-point capacitive touch
- Intel® Tigerlake CPU, fanless design
- 1*DDR4 3200 SODIMM, up to 32GB
- 1*Mini PCIe, 1*M.2 B-Key Type 3042/3052
- 4*COM, 2*LAN, 4*USB3.2, 1*8-bit DIO (opt.)
- 2.5" SATA Bay, 1*mSATA, 1*Line out, 2*3W Speaker
- DC 9~36V power input
- Standard VESA mount and panel mounting

Description

The ALAD-K1850T(P) is a tablet powered by Intel®Tiger lake U-series processors. It adopts 18.5 "1366*768 resolution TFT LCD and fully fits surface projection multi-point capacitive 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

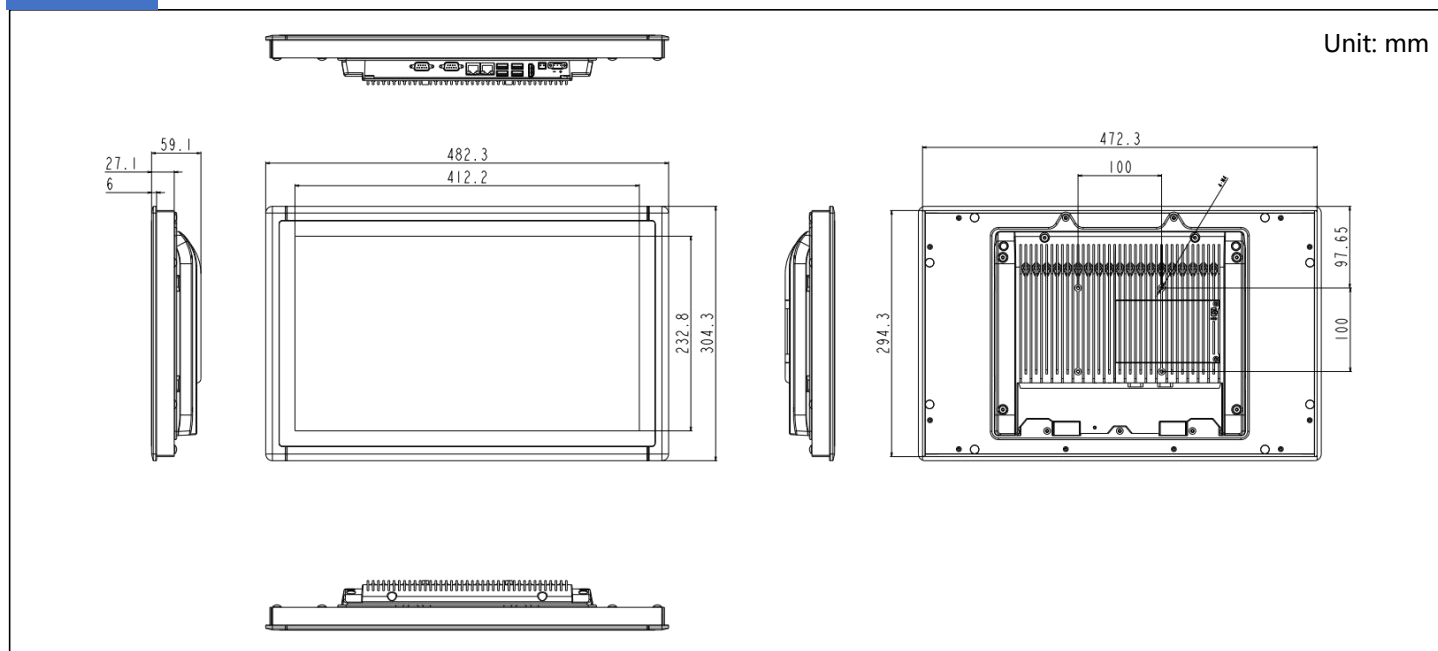


SPEC.

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	18.5 "1366*768@60Hz TFT LCD, 1*HDMI for extended display Intel UHD Graphics or iRIS® Xe Graphics, Supports 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 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*3W Speaker
	Real I/O	4*COM: 2*RS232/422/485, 2*RS232, DB9; 1*HDMI; 1*Line out; 4*USB3.2 Type A ; 2*RJ45; 1*3 pin DC-IN terminal pin; 1*Remote SW;
	Front I/O	/
	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, consumption: 11.52W (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
	Construction	Aluminum die-casting front bezel , fin-shaped radiator shell
Mechanical & Environmenal	Operating Temperature	0~50°C -HDD(-10~55°C -SSD), with airflow
	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

Mechanical & Environmental	Mounting	Panel mounting, VESA 75*75mm and 100*100mm
	Dimension	(W*H*D):482.3*304.3*59.1mm; mounting cut out(W*H): 473.5*295.5mm
	Net Weight	6.63KG
	EMC	CE,FCC Class A
LCD	Type	18.5" TFT LED backlight
	Resolution	1366*768@60Hz
	Color	16.2M
	Pixel Pitch(mm)	0.300*0.300(mm)
	Brightness(cd/m2)	350
	Viewing Angle	85°(left), 85°(right), 80°(up),80°(down)
	Operating Temperature	0~60°C
	Backlight Lifetime	50000 Hours
Touch	Type	Projected capacitive touch
	Resolution	gapless
	Light Transmittance	90%
	Interface	USB
	Consumption	+5V @300mA
	OS	Windows/Linux
	Click Lifetime	3 billion times

Dimension



Ordering Info

Model NO.	CPU	Touch	Description
ALAD-K1850T(P)/S001	Intel® Core I3-1115G4	Projected Capacitive Touch	Industrial panel computer, 18.5" TFT LCD, 4*COM, 4*USB3.2, 2*LAN, 1*HDMI, 1*Mini PCIe, 1*M.2 B-Key, 1*Line out, 1*2.5" SATA Bay, 1*mSATA, 2*3W Speaker, DC 9~36V
ALAD-K1850T(P)/S002	Intel® Core I5-1135G7		
ALAD-K1850T(P)/S003	Intel® Core I7-1165G7		
ALAD-K1850T(P)/S004	Intel® Celeron 6305E		
PA-60DC12	AC/DC power adapter, DC12V@5A ,60W		
	1*COM adapter cable (one drag two, DB9 form)		