

# ALAD-K1220T/T(P)

12.1" TFT LCD Capacitive/Resistive Touch, Intel® Kabylake CPU, 2\*COM, 2\*LAN, 4\*USB3.0, 1\*USB2.0, 1\* Line out, 1\*2.5" SATA bay, 1\*mSATA, DC 9~36V

**JHCTECH**

IoT Computer  
Connecting the Dots

Industrial Panel Computer  
ALAD Series



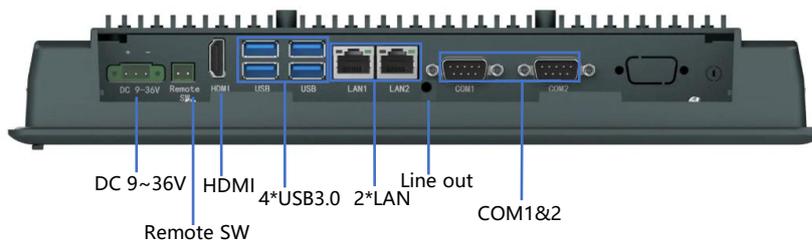
## Key Features

- Aluminum die-casting chassis
- 12.1" TFT LCD, Multi-point capacitive/5 wire resistive touch
- Intel® Kabylake CPU, fanless design
- 1\*DDR4 2133 SODIMM, up to 32GB
- Supports the IP65 rating for the front panel
- 1\*Mini PCIe, 2\*COM, 2\*LAN, 4\*USB3.0, 1\*USB2.0
- 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-K1220T/T(P) is a tablet powered by Intel® Kaby lake U series processors. It adopts 12.1" 1024\*768 resolution TFT 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 expansions, wide voltage DC 9-36V, aluminum die-cast body without fan heat dissipation, various installation modes, suitable for intelligent MES system and device management HMI.

## I/O View

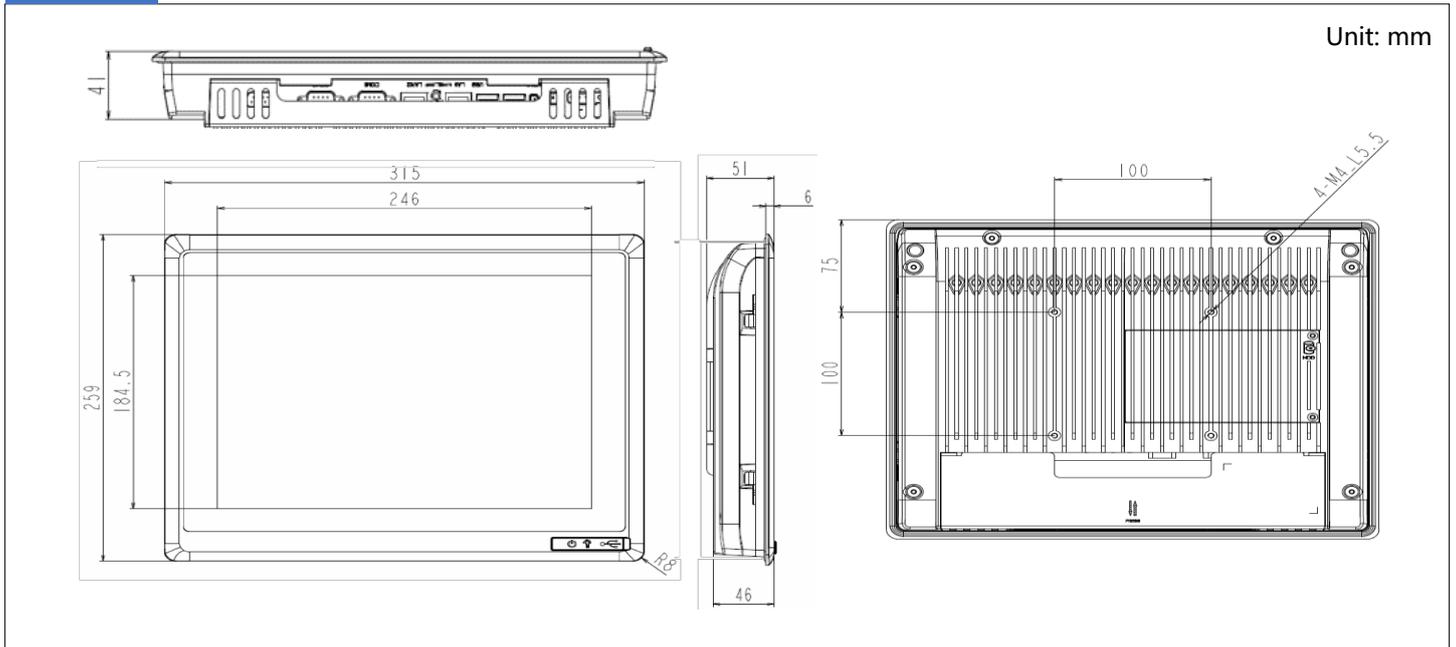


## SPEC.

System	CPU	Intel® Kabylake-U Core I3/I5/I7 CPU, ULT SoC, TDP15W
	Chipset	Intel® CPU SoC
	System memory	1*DDR4 2133 MHz SODIMM, up to 32GB
	BIOS	Insyde SPI 64Mbit flash memory
	Storage	1*2.5" SATA HDD bay, support SATA3.0 6Gbps HDD/SSD; 1*mSATA
	Display	Intel® HD Graphics 620, 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)
	Audio	Realtek ALC662VD controller, support 5.1 channel, 2*3W Speaker
	Real I/O	2*COM: 2*RS232/422/485, DB9; 1*HDMI; 1*Line out; 4*USB3.0 Type A; 2*RJ45 1*3 pin DC-IN terminal pin; 1*Remote SW
	Front I/O	1*USB2.0
	LAN	2*Intel I210AT PCIe Gig. Ethernet, 10/100/1000Mbps
	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 Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto
Mechanical & Environmental	Construction	Aluminum die-casting front bezel, fin-shaped radiator shell
	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 (Cut out: 303*247mm), VESA100*100mm	
	Dimension	(W*H*D): 315*259*51mm	
	Net Weight	2.8KG	
	EMC	CE,FCC Class A	
LCD	Type	12.1" TFT LED backlight	
	Resolution	1024*768@60Hz	
	Color	16.2M	
	Pixel Pitch(mm)	0.240 *0.240(mm)	
	Brightness(cd/m2)	500	
	Viewing Angle	89°(left), 89°(right), 89°(up), 89°(down)	
	Operating Temperature	-30~70°C	
	Backlight Lifetime	30000 Hours	
Touch	Type	5 wire resistive touch	Projected capacitive touch
	Surface Hardness	≥3H	≥6H
	Light Transmittance	83%	90%
	Interface	USB	USB
	Consumption	+5V @200mA	+5V @300mA
	OS	Windows/Linux	Windows/Linux
	Click Lifetime	30 million times	35 million times

### Dimension



### Ordering Info

Model NO.	CPU	Touch Screen	Description
ALAD-K1220T/T001	Intel® Core i3-7100U	5 wire resistive touch	Industrial panel computer, 12.1" TFT LCD, 2*COM, 4*USB3.0, 1*USB2.0, 2*LAN, 1*HDMI, 1*Mini PCIe, 1*Line out, 1*2.5" SATA Bay, 1*mSATA, 2*3W Speaker, DC 9~36V
ALAD-K1220T/T002	Intel® Core i5-7200U		
ALAD-K1220T/T003	Intel® Core i7-7500U		
ALAD-K1220T(P)/T001	Intel® Core i3-7100U	Projected capacitive touch	
ALAD-K1220T(P)/T002	Intel® Core i5-7200U		
ALAD-K1220T(P)/T003	Intel® Core i7-7500U		
PA-60DC12	AC/DC power adapter, DC12V@5A ,60W		