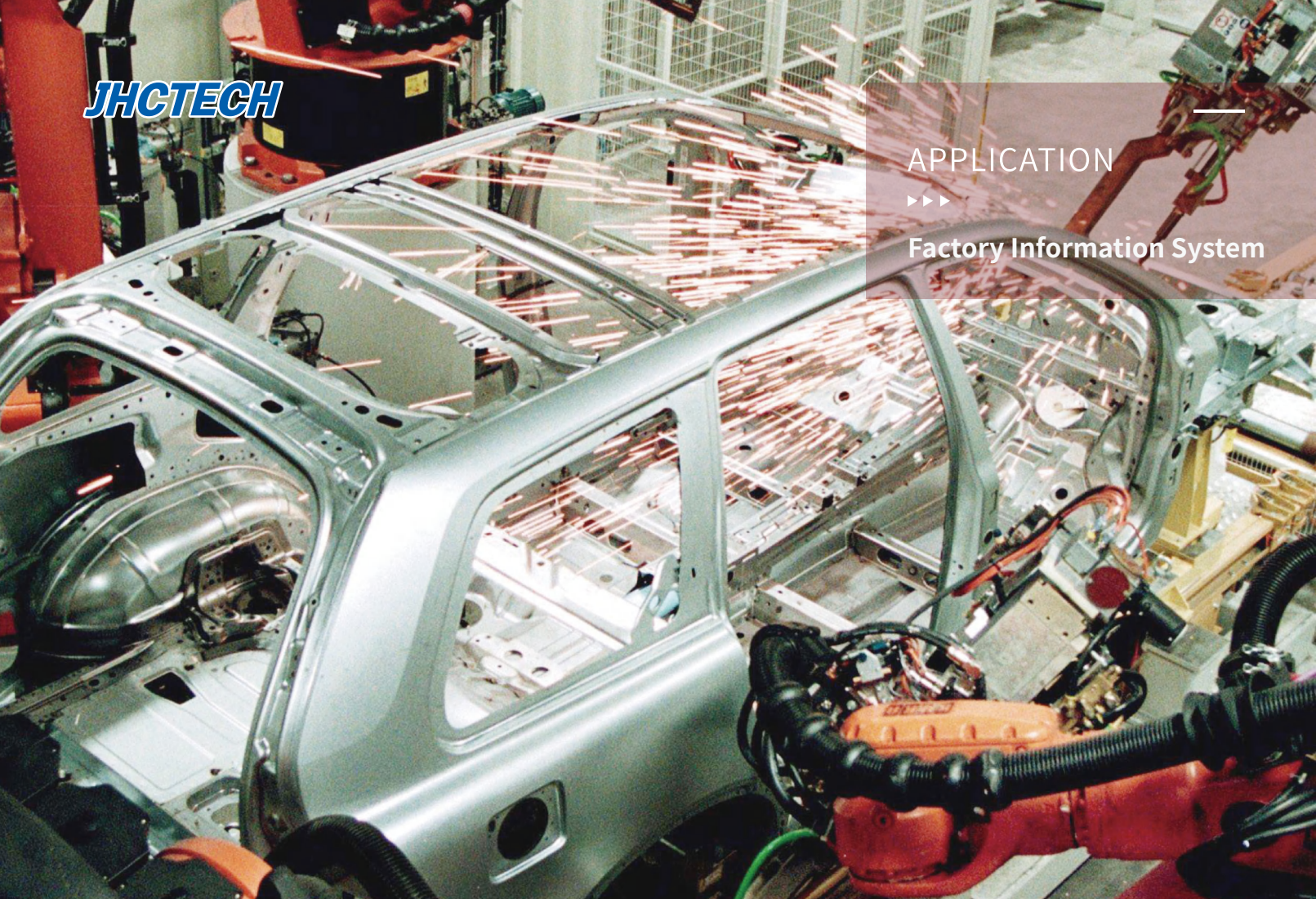


JHCTECH IoT Computer
Connecting the Dots

JHCTECH IoT Computer
Connecting the Dots

ALAD
Industrial Panel PC



JHCTECH

APPLICATION



Factory Information System

New product and differences for ALAD tablets

Model	CPU	Model	CPU	Model	CPU
A1010T/T(P)	Elkhart lake	K1020T	Sky lake-U/ Kaby lake-U	K1050T/T(P)	Tiger lake-U
A1210T/T(P)		K1220T		K1250T/T(P)	
A1510T(P)		K1520T		K1550T(P)	
A1710T/T(P)		K1720T		K1750T/T(P)	
A1810T(P)		K1820T(P)		K1850T(P)	
A1910T/T(P)		K1920T		K1950T/T(P)	
A2110T(P)		K2120T(P)		K2150T(P)	
A2310T(P)		K2320T(P)		K2350T(P)	

COMPLETE LIST

Industrial
Panel PC List

D-01

ALAD-K1050T(P)

D-05

ALAD-K1250T(P)

D-07

ALAD-K1550T(P)

D-09

ALAD-K1551T(P)

D-11

ALAD-K1750T(P)

D-13

ALAD-K1850T(P)

D-15

ALAD-K1950T(P)

D-17

ALAD-K2150T(P)

D-19

ALAD-K2350T(P)

D-21

WPPC-H1580T

D-23

WPPC-H1780T

D-25

Display List

D-27

ALAD-101T

D-29

ALAD-151T

D-31

ALAD-171T

D-33

ALAD-181T(P)

D-35

ALAD-191T

D-37

ALAD-211T(P)

D-39



Low-voltage power distribution monitoring



APPLICATION



Industrial Automation
Equipment

System	ALAD-K1050T(P)	ALAD-K1250T(P)	ALAD-K1550T(P)	ALAD-K1551T(P)	ALAD-K1750T(P)	ALAD-K1850T(P)	ALAD-K1950T(P)	ALAD-K2150T(P)	ALAD-K2350T(P)
CPU	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz
I/O Interfaces									
LAN	2*Intel i210AT, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL	2*Intel i226V, 10M-1000M, WOL
USB	4*USB3.2	4*USB3.2+1*USB2.0	4*USB3.2	4*USB3.2+1*USB2.0	4*USB3.2+1*USB2.0	4*USB3.2	4*USB3.2+1*USB2.0	4*USB3.2	4*USB3.2
Display	1*HDMI	1*HDMI	1*HDMI	1*HDMI	1*HDMI	1*HDMI	1*HDMI	1*HDMI	1*HDMI
Audio	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897	1*Line out, Realtek ALC897
Serial port	2*RS232/422/485	2*RS232/422/485+2*RS232	2*RS232/422/485	2*RS232/422/485+2*RS232	2*RS232/422/485+2*RS232	2*RS232/422/485+2*RS232	2*RS232/422/485+2*RS232	2*RS232/422/485+2*RS232	2*RS232/422/485+2*RS232
LCD Display									
Dimensions	10.1" TFT LCD	12.1" TFT LCD	15.6" TFT LCD	15.0" TFT LCD	17.0" TFT LCD	18.5" TFT LCD	19.0" TFT LCD	21.5" TFT LCD	23.8" TFT LCD
Resolution	1280*800	1280*800	1920*1080	1024*768	1280*1024	1366*768	1280*1024	1920*1080	1920*1080
Max. colors	16.2M	16.2M	16.2M	16.2M	16.7M	16.7M	16.7M	16.7M	16.7M
Luminance	350	500	350	350	350	300	470	300	350
Viewing Angle	85°(L), 85°(R), 85°(U),85°(D)	80°(L), 80°(R), 70°(U),70°(D)	85°(L), 85°(R), 85°(U),85°(D)	80°(L), 80°(R), 80°(U),80°(D)	80°(L), 80°(R), 80°(U),80°(D)	85°(L), 85°(R), 85°(U),85°(D)	85°(L), 85°(R), 85°(U),85°(D)	89°(L), 89°(R), 89°(U),89°(D)	89°(L), 89°(R), 89°(U),89°(D)
Touch screen									
Touch type	5-wire resistive touch screen/ projected capacitive touch screen	5-wire resistive touch screen/ projected capacitive touch screen	5-wire resistive touch screen/ projected capacitive touch screen	5-wire resistive touch screen/ projected capacitive touch screen	projected capacitive touch screen	5-wire resistive touch screen/ projected capacitive touch screen	projected capacitive touch screen	projected capacitive touch screen	projected capacitive touch screen
Transmittance	83%/≥85%	83%/90%	83%/90%	83%/90%	90%	83/90%	90%	90%	90%
Controller	USB	USB	USB	USB	USB	USB	USB	USB	USB
Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
Expansion	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR Opt.1*PCleX4 (X4) /1*32bit PCI	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR Opt.1*PCleX4 (X4) /1*32bit PCI	1*Mini PCIe(PCle&USB),PCle module 1*M.2 3042/3052(+SIM), 4G /5G NR	1*Mini PCIe(PCle&USB),PCle module 1*M.2 3042/3052(+SIM), 4G/5G NR	1*Mini PCIe(PCle&USB),PCle module 1*M.2 3042/3052(+SIM), 4G /5G NR Opt.1*PCleX4 (X4) /1*32bit PCI	1*Mini PCIe(PCle&USB),PCle module 1*M.2 3042/3052(+SIM), 4G /5G NR Opt.1*PCleX4 (X4) /1*32bit PCI	1*Mini PCIe(PCle&USB),PCle module 1*M.2 3042/3052(+SIM), 4G /5G NR Opt.1*PCleX4 (X4) /1*32bit PCI
Power Supply									
Input voltage & TDP	DC IN 9~36V; 34.5W (CPU i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (CPU i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (CPU i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (CPU i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (i7-1165G7, 8G DDR4, 128G SSD)	DC IN 9~36V; 11.5W (i7-1165G7, 8G DDR4, 128G SSD)
Mechanical									
Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	275*193*51mm Panel mounting opening size(W*H): 270*188mm	315*259*51mm Panel mounting opening size(W*H): 303*247mm	416*265*59mm Panel mounting opening size(W*H): 403*251mm	380*315*56mm Panel mounting opening size(W*H): 368*303mm	415.5*360.5*59mm Panel mounting opening size(W*H): 407*352mm	482*305*59mm Panel mounting opening size(W*H): 474*396mm	453.5*388.5*64mm Panel mounting opening size(W*H): 445*380mm	546.9*344.7*64mm Panel mounting opening size(W*H): 538*335mm	594*375*64mm Panel mounting opening size(W*H): 583*364mm
Mounting	Panel/VESA 100*100/75*75mm	Panel/VESA 100*100/75*75mm	Panel/VESA 100*100/75*75mm	Panel/Rack/VESA 100*100/75*75mm	Panel/Rack/VESA 100*100/75*75mm	Panel/VESA 100*100/75*75mm	Panel/Rack/VESA 100*100/75*75mm	Panel/VESA 100*100/75*75mm	Panel/VESA 100*100/75*75mm
Net Weight	1.85KG	2.8KG	3.7KG	4.3KG	6.1KG	6.63KG	6.9KG	8.15KG	7.74KG
Environmental									
Operating Temp.	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow	0~ 50°C, HDD(-10~55°C, SSD),airflow	0~ 50°C, HDD(-10~55°C, SSD),airflow	0~ 50°C, HDD(-10~55°C, SSD), airflow	0~ 50°C, HDD(-10~55°C, SSD), airflow	0~ 50°C, HDD(-10~55°C, SSD), airflow
Storage Temp.	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD	1g 5~500Hz,with HDD
Shock	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD
EMC	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A	CE,FCC Class A
OS	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto

 		
	WPPC-H1580T	WPPC-H1780T
System		
CPU	Intel® Baytrail Celeron J1900 2.0-2.42G CPU	Intel® Baytrail Celeron J1900 2.0-2.42G CPU
RAM	1*DDR3L,1333Mhz SODIMM,Max.8GB	1*DDR3L,1333Mhz SODIMM, Max.8GB
Graphics	Gen.7 Intel® HD Graphics LCD+HDMI+VGA display,OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264 VGA:1920*1200@60Hz; HDMI:1920*1080@60Hz	Gen.7 Intel® HD Graphics LCD+HDMI+VGA display,OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264 VGA:1920*1200@60Hz; HDMI:1920*1080@60Hz
I/O Interfaces		
LAN	2*Intel I211AT, Gigabit	2*Intel I211AT, Gigabit
USB	1*USB3.0, 3*USB2.0	1*USB3.0, 3*USB2.0
Display	1*HDMI+1*VGA	1*HDMI+1*VGA
Audio	Optional audio	Optional audio
Serial port	2*RS232/422/485	2*RS232/422/485
LCD Display		
Dimensions	15" TFT LED	17" TFT LED
Resolution	1024*768	1280*1024
Max. colors	16.2M	16.2M
Luminance ^(cd/m²)	350	600
Viewing Angle	80°(left), 80°(right), 80°(up), 80°(down)	80°(left), 80°(right), 70°(up), 80°(down)
Touch screen		
Touch type	5-wire resistive touch screen/ projected capacitive touch screen	5-wire resistive touch screen/ projected capacitive touch screen
Light Transmission	83/90%	83/90%
Controller	USB	USB
Storage		
Storage	1*2.5" SATA swappable, 1*mSATA, support AHCI	1*2.5" SATA swappable, 1*mSATA Full-height card, support AHCI
Expansion		
Expansion Port	1*Mini PCIe, with SIM slot	1*Mini PCIe, with SIM slot
Power Supply		
Input voltage & Power consumption	DC IN 9~36V, D-Jack w/M8, Power consumption: 19.5W	DC IN 9~36V, D-Jack w/M8, Power consumption: 30W
Mechanical		
Sturcture	SUS304 stainless steel/5052 Aluminum alloy/SECC	SUS304 stainless steel/5052 Aluminum alloy/SECC
Dimension (W*H*D)	405.22*328.22*52.1mm	429.51*364.51*52.1mm
Installation	Desktop mounting VESA(100mm*100mm)	Desktop mounting VESA(100mm*100mm)
Net Weight	5.8KG	5.57KG
Environmental		
Operating Temperature	0~ 60°C	0~ 60°C
Storage Temperature	-40°C~85°C	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation	10~90%@40°C, No- condensation
Vibration	1g 5~500Hz	1g 5~500Hz
Shock	10g peak acceleration (duration 11ms) with HDD	10g peak acceleration (duration 11ms) with HDD
EMC	CE,FCC Class A	CE,FCC Class A
OS	Windows 7,Windows 8.1, Windows 10,Linux Fedora Ubuntu	Windows 7,Windows 8.1, Windows 10,Linux Fedora Ubuntu

ALAD-K1050T(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, 1*mSATA, DC 9~36V

Key Specification

- 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



Product Overview

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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I210AT, 10M-1000M, WOL
USB	4*USB3.2
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*2W Speaker
Serial port	2*RS232/422/485

LCD Display

Dimension	10.1" TFT LCD
Resolution	1280*800@60Hz
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	85°(L), 85°(R), 85°(U),85°(D)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Transmittance	83%/≥85%
Controller	USB

Storage

1*2.5" SATA3.0 HDD/SSD,
1*mSATA

Expansion

1*Mini PCIe(PCle&USB),PCle module;
1*M.2 3042/3052(+SIM), 4G LTE/5G NR

Power Supply

Input voltage & TDP
DC IN 9~36V;
34.5W (CPU i7-1165G7, 8G DDR4, 128G SSD)

Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	275*193*51mm Panel mounting opening size(W*H): 270*188mm
Installation	Panel/VESA(100*100/75*75mm)
Net Weight	1.85KG

Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5-500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

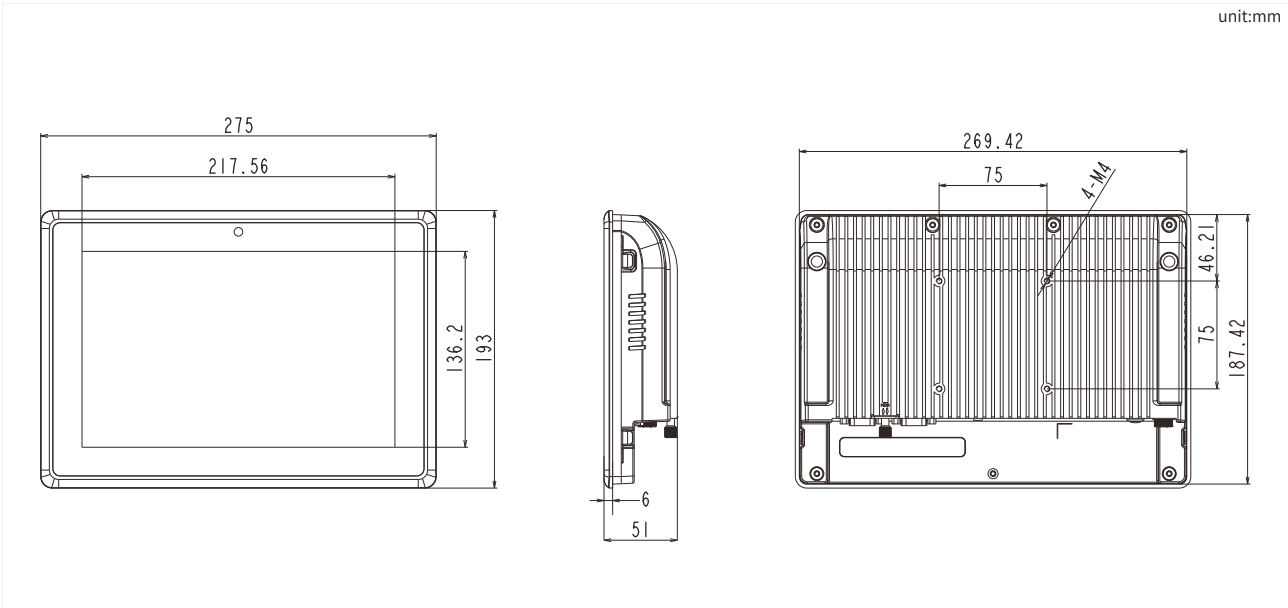
OS

Windows 11/10*IoT enterprise,
Android, SUSE, Ubuntu, Wind River,
Red Hat*Enterprise, Wind River
VxWorks*7, Yocto

I/O View



Dimensions



Ordering Information

Model	CPU	Touch Screen		Specifications
ALAD-K1050/ S001	Intel® Core I3-1115G4	T: 5-wire resistive touch screen	T(P): Projected capacitive touch screen	10.1" LCD, 2*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*2W Speaker, DC 9~36V power input
ALAD-K1050/ S002	Intel® Core I5-1135G7			
ALAD-K1050/ S003	Intel® Core I7-1165G7			
ALAD-K1050/ S004	Intel® Celeron 6305E			
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W			

ALAD-K1250T(P)

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

Key Specification

- Aluminum die-casting chassis
- 12.1" 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
- 4*COM, 2*LAN, 4*USB3.2,1*USB2.0,1*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



Product Overview

The ALAD-K1250T/T(P) is a tablet powered by Intel®Tiger 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 and 1*M.2 3042/3052 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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2, 1*USB2.0
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display

Dimension	12.1" TFT LCD
Resolution	1024*768@60Hz
Max. colors	16.2M
Luminance (cd/m²)	500
Viewing Angle	80°(L), 80°(R), 70°(U),70°(D)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Transmittance	83%/90%
Controller	USB

Storage

Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
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Expansion

Expansion	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR
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Power Supply

Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)
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Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	315*259*51mm Panel mounting opening size(W*H): 303*247mm
Installation	Panel/VESA(100*100/75*75mm)
Net Weight	2.8KG

Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

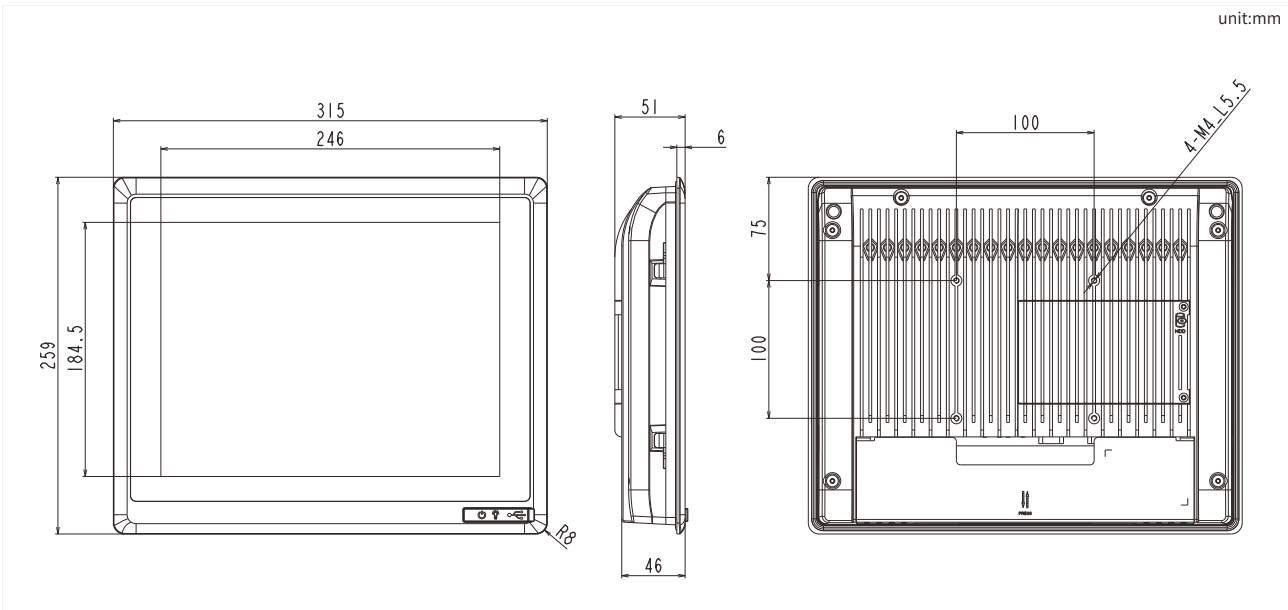
OS

	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto
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I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen		Specifications
ALAD-K1250/ S001	Intel® Core I3-1115G4	T: 5-wire resistive touch screen	T(P): Projected capacitive touch screen	12.1" TFT LCD, 4*COM, 4*USB3.2, 1*USB2.0, 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-K1250/ S002	Intel® Core I5-1135G7			
ALAD-K1250/ S003	Intel® Core I7-1165G7			
ALAD-K1250/ S004	Intel® Celeron 6305E			
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W			
	1*COM adapter cable (one drag two, DB9 form)			

ALAD-K1550T(P)

15.6" TFT LCD Capactive Touch, Intel® Tigerlake CPU, 4*COM, 2*LAN, 4*USB3.2, 1* Line out, 1*2.5“ SATA bay, 1*mSATA, DC 9~36V

Key Specification

- Aluminum die-casting chassis, Full Flat Mirror Panel
- 15.6" Full HD 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
- Optional 1*PCIeX4 slot (PCIEX4 signal) or 1*PCI slot expansion
- DC 9~36V power input
- Standard VESA mount and panel mounting



I/O View



Product Overview

ALAD-K1550T(P) is a full flat mirror panel powered by an Intel®Tiger lake U series processor. It adopts 15.6 "1920*1080 resolution full HD 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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core i3/i5/i7 CPU, ULT SoC, TDP 12W/15W; Intel® CPU SoC MCP
RAM	1*DDR4 3200 MHz SODIMM, 32GB max.
Graphics	15.6 "1920*1080@60Hz Full HD TFT LCD, 1*HDMI for extended display 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: 4096*2304@60Hz

I/O Port

LAN	2*Intel i226V , 10M-1000M, WOL
USB	4*USB3.2
Display	1*HDMI
Audio	1*Line out,Realtek ALC897, 2*3W Speaker
Serial port	2*RS232, 2*RS232/422/485 (DB9)

LCD Display

Dimension	15.6” TFT LED
Resolution	1920*1080
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	85°(L), 85°(R), 85°(U),85°(D)

Touch Screen

Touch type	Projected capacitive touch
Light Transmission	≥85%
Controller	EETI Industrial grade

Storage

Storage	1*2.5" SATA3.0 HDD/SSD; 1*mSATA
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Expansion

Expansion	1*Mini PCIe(Pcie/USB), PCIe/USB module; 1*M.2 B-Key 3042/3052(+SIM), 4G LTE/5G NR; optional 1*32-bit PCI or 1*PCIe X4(X4)
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Power Supply

Input voltage	DC IN 9~36V;
TDP	TBD

Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension(W*H*D)	416*264*59mm
Installation	Panel mounting(Cut out: 403*251mm) , VESA(100*100/75*75mm)
Weight	3.7KG

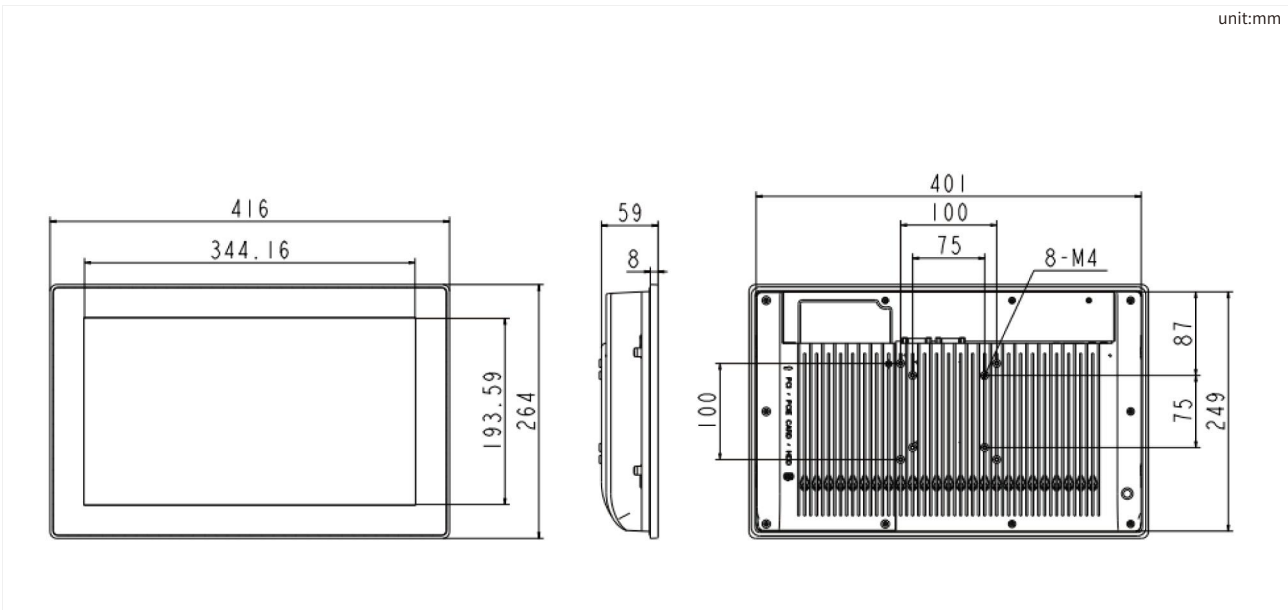
Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD) with air flow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz, with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

OS

Windows 11*IoT enterprise, Windows 10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto

Dimensions



Ordering Information

Model	CPU	Touch Screen	Specifications
ALAD-K1550T(P)/ S001	Intel® Core i3-1115G4	T(P): Projected Capacitive Touch	Industrial panel computer, 15.6" TFT LCD, 4*COM, 4*USB3.2, 1*USB2.0, 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 power input
ALAD-K1550T(P)/ S002	Intel® Core i5-1135G7		
ALAD-K1550T(P)/ S003	Intel® Core i7-1165G7		
ALAD-K1550T(P)/ S004	Intel® Celeron 6305E		
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 (when use POE network card for expansion)		

ALAD-K1551T(P)

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

Key Specification

- Aluminum die-casting chassis
- 15" 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*USB2.0,1*8-bit DIO(opt.)
- 2.5"SATA Bay, 1*mSATA, 1*Line out, 2*3W Speaker
- Optional 1*PCIeX4 slot (PCIEX4 signal) or 1*PCI slot
- DC 9~36V power input
- Standard VESA mount and panel mounting



Product Overview

The ALAD-K1551T/T(P) is an industrial tablet powered by Intel®Tiger lake U series processors. It adopts 15 "1024*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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2,1*USB2.0
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display

Dimension	15.0" TFT LCD
Resolution	1024*768@60Hz
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	80°(L), 80°(R), 80°(U),80°(D)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Transmittance	83%/90%
Controller	USB

Storage

Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
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Expansion

Expansion	1*Mini PCIe(Pcie&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR (Opt.)1*PCIeX4(X4)/1*32-bit PCI
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Power Supply

Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)
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Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	380*315*56mm Panel mounting opening size(W*H): 368*303mm
Installation	Panel/Rack/VESA(100*100/75*75mm)
Net Weight	4.3KG

Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

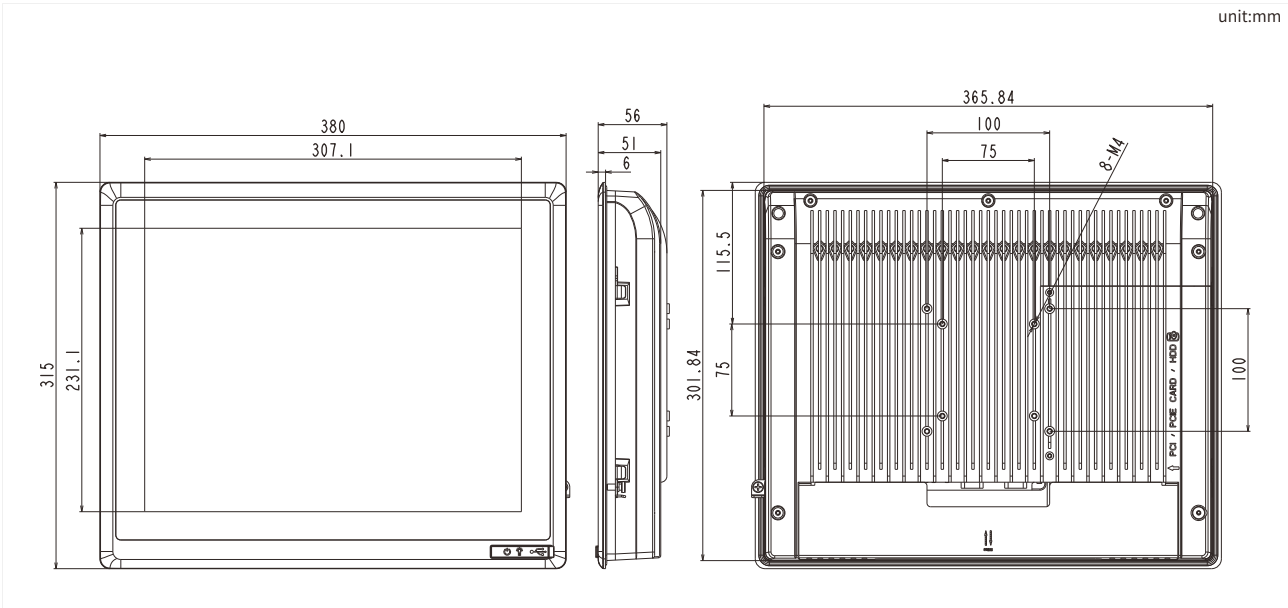
OS

Windows 11/10*IoT enterprise,
Android, SUSE, Ubuntu, Wind River,
Red Hat*Enterprise, Wind River
VxWorks*7, Yocto

I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen		Specifications
ALAD-K1551/ S001	Intel® Core I3-1115G4	T: 5 wire resistive touch	T(P): Projected Capacitive Touch	15" TFT LCD, 4*COM, 4*USB3.2, 1*USB2.0, 2*LAN, 1*HDMI,1*Mini PCIe, 1*M.2 B-Key , 1*Line out, 1*2.5"SATA, 1*mSATA, 2*3W Speaker, DC 9~36V
ALAD-K1551/ S002	Intel® Core I5-1135G7			
ALAD-K1551/ S003	Intel® Core I7-1165G7			
ALAD-K1551/ S004	Intel® Celeron 6305E			
ECX-168	1*PCIeX4 slot(X4) (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 (when use POE network card for expansion)			

ALAD-K1750T(P)

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

Key Specification

- Aluminum die-casting chassis
- 17.0" 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
- 4*COM, 2*LAN, 4*USB3.2,1*USB2.0,1*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



Product Overview

The ALAD-K1750T/T(P) is a tablet powered by Intel®Tiger lake U series processors. It adopts 17.0 "1280*1024 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 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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2,1*USB2.0
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display

Dimension	17.0" TFT LCD
Resolution	1280*1024@60Hz
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	80°(L), 80°(R), 80°(U),80°(D)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Transmittance	83%/90%
Controller	USB

Storage

Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
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Expansion

Expansion	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR
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Power Supply

Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)
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Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	415.5*360.5*59mm Panel mounting opening size(W*H): 407*352mm
Installation	Panel/Rack/VESA(100*100/75*75mm)
Net Weight	6.1KG

Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

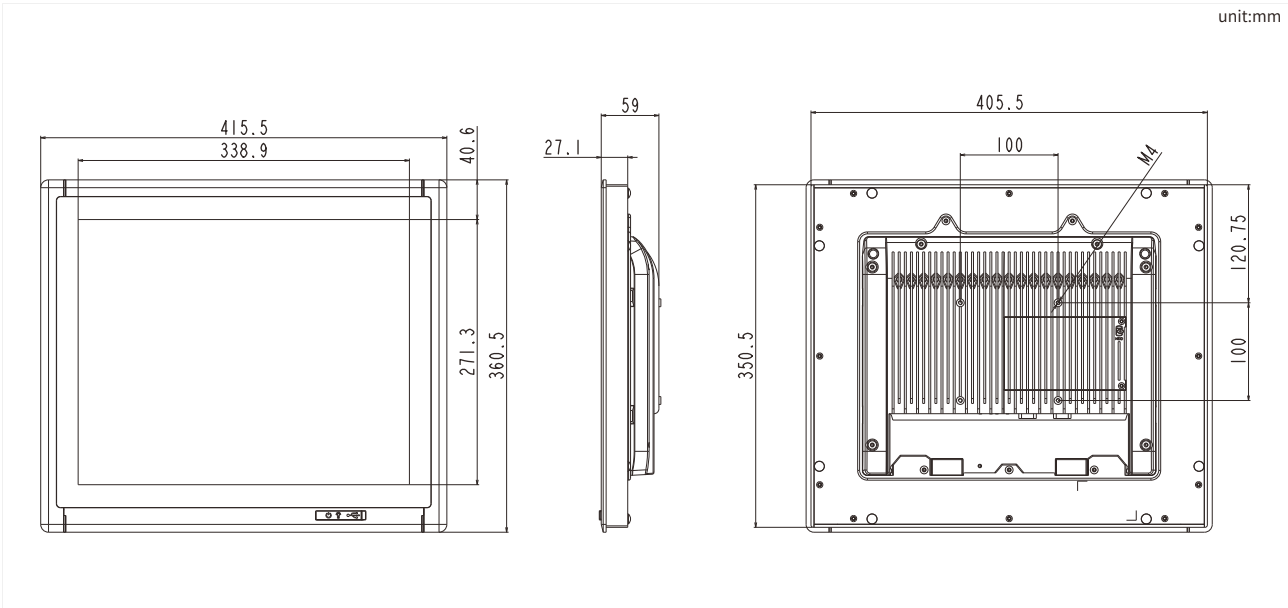
OS

	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto
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I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen		Specifications
ALAD-K1750/ S001	Intel® Core I3-1115G4	T: 5-wire resistive touch screen	T(P): Projected capacitive touch screen	17" TFT LCD, 4*COM, 2*LAN, 4*USB3.2, 1*USB2.0, 1*HDMI, 1*Mini PCIe, 1*M.2 B-Key, 1*Line out, 1*2.5"SATA, 1*mSATA, 2*3W Amplifier, DC 9~36V
ALAD-K1750/ S002	Intel® Core I5-1135G7			
ALAD-K1750/ S003	Intel® Core I7-1165G7			
ALAD-K1750/ S004	Intel® Celeron 6305E			
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W			
	1*COM adapter cable (one drag two, DB9 form)			

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, 1*mSATA, DC 9~36V

Key Specification

- 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



Product Overview

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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display

Dimension	18.5" TFT LCD
Resolution	1366*768@60Hz
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	85°(L), 85°(R), 80°(U),80°(D)

Touchscreen

Touch type	projected capacitive touch screen
Transmittance	90%
Controller	USB

Storage

Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
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Expansion

Expansion	1*Mini PCIe(PCle&USB),PCle module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR
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Power Supply

Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)
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Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	483*305*59mm Panel mounting opening size(W*H): 474*396mm
Installation	Panel/VESA(100*100/75*75mm)
Net Weight	6.63KG

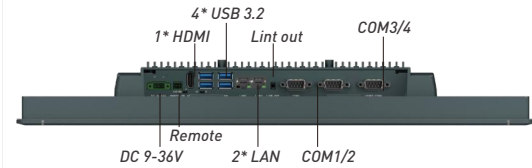
Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

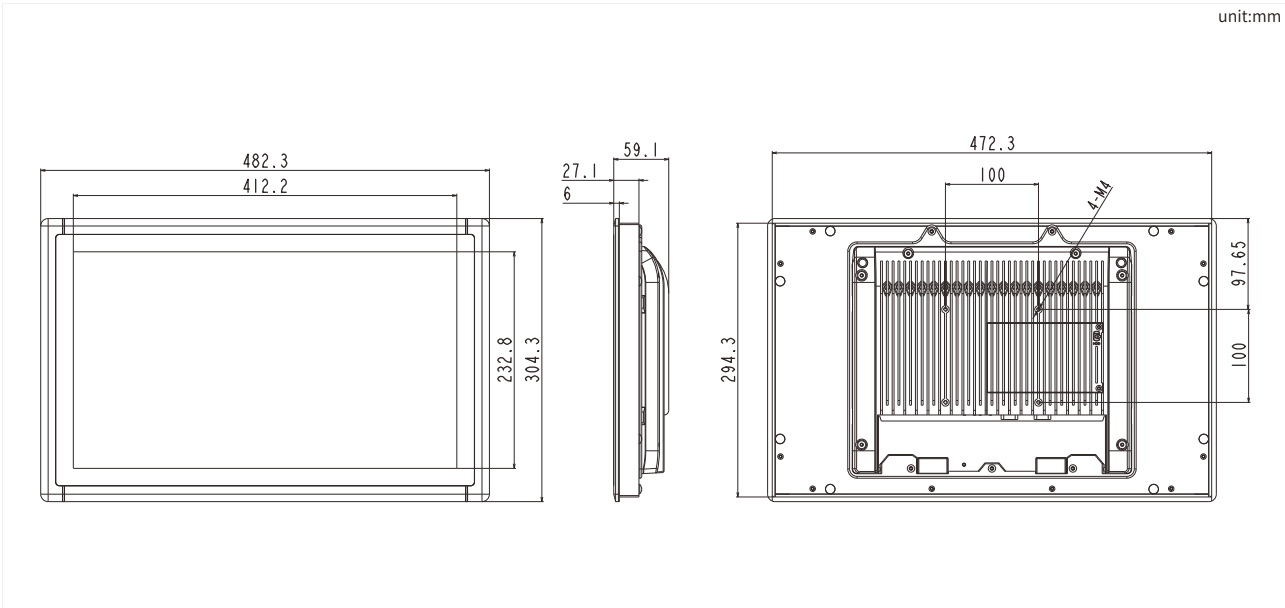
OS

	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto
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I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen	Specifications
ALAD-K1850T(P)/S001	Intel® Core I3-1115G4	T(P): Projected capacitive touch screen	18.5" TFT LCD, 4*COM, 2*LAN, 4*USB3.2, 1*HDMI, 1*Mini PCIe, 1*M.2 B-Key, 1*Line out, 1*2.5"SATA, 1*mSATA, 2*3W Amplifier, 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)		

ALAD-K1950T(P)

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

Key Specification

- Aluminum die-casting chassis
- 19.0" TFT HD 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
- 4*COM, 2*LAN, 4*USB3.2, 1*USB2.0,1*8-bit DIO (opt.)
- 2.5" SATA Bay, 1*mSATA, 1*Line out, 2*3W Speaker
- Optional 1*PCIeX4(X4) or 1*PCI
- DC 9~36V power input
- Standard VESA mount and panel mounting



Product Overview

The ALAD-K1950T/T(P) is a tablet powered by Intel®Tiger lake U-series processors. It adopts 19.0 "1280*1024 resolution TFT LCD and fully fits surface projection multi-point capacitive/5 wire resistive touch. 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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2,1*USB2.0
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display

Dimension	19.0" TFT LCD
Resolution	1280*1024@60Hz
Max. colors	16.7M
Luminance (cd/m²)	470
Viewing Angle	85°(L), 85°(R), 85°(U),85°(D)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Transmittance	83%/90%
Controller	USB

Storage

Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
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Expansion

Expansion	1*Mini PCIe(PCIe&USB),PCIe module; 1*M.2 3042/3052(+SIM), 4G LTE/5G NR
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Power Supply

Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)
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Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	453.5*388.5*64mm Panel mounting opening size(W*H): 445*380mm
Installation	Panel/Rack/VESA(100*100/75*75mm)
Net Weight	6.9KG

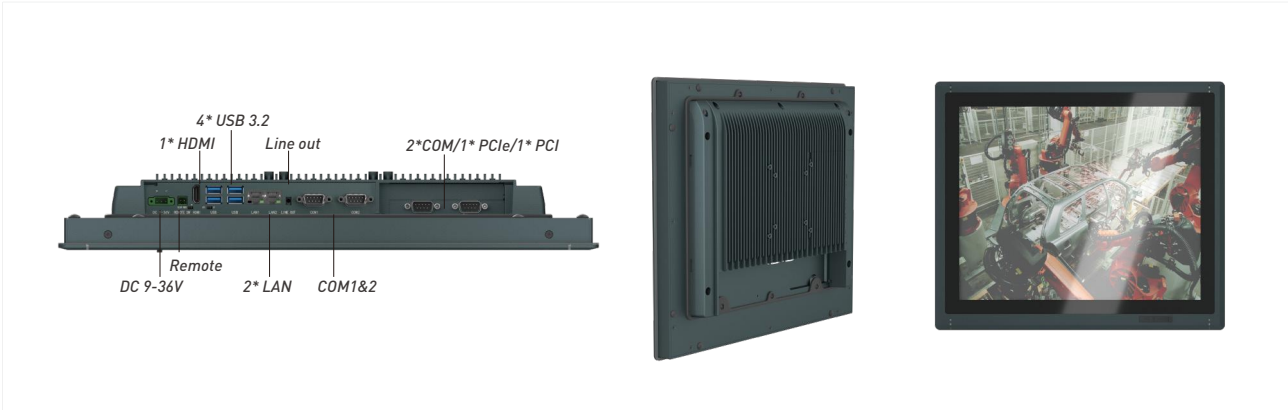
Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

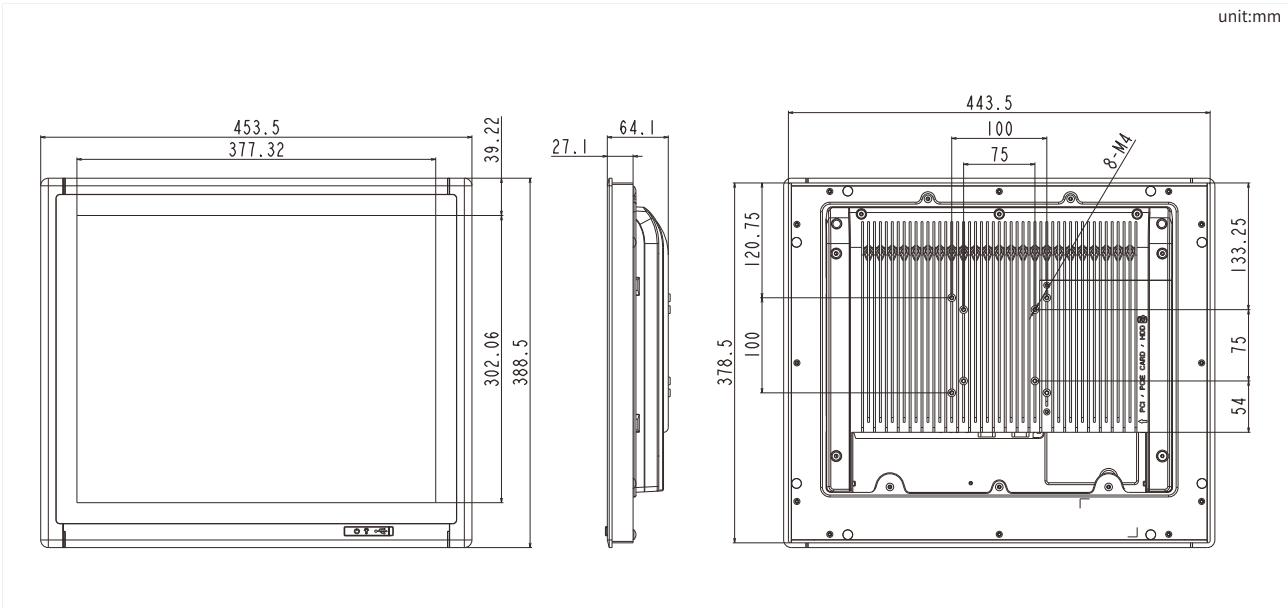
OS

	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto
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I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen		Specifications
ALAD-K1950/S001	Intel® Core I3-1115G4	T: 5-wire resistive touch screen	T(P): Projected capacitive touch screen	19" TFT LCD, 4*COM, 2*LAN, 4*USB3.2, 1*USB2.0, 1*HDMI, 1*Mini PCIe, 1*M.2 B-Key, 1*Line out, 1*2.5"SATA, 1*mSATA, 2*3W Amplifier, DC 9~36V
ALAD-K1950/S002	Intel® Core I5-1135G7			
ALAD-K1950/S003	Intel® Core I7-1165G7			
ALAD-K1950/S004	Intel® Celeron 6305E			
ECX-168	1*PCIeX4 slot(X4 signal) (non COM3&4 in use)			
ECl-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 (when use POE network card for expansion)			

ALAD-K2150T(P)

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

Key Specification

- Aluminum die-casting chassis
- 21.5" 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
- Optional 1*PCIeX4 slot (PCIEX4 signal) or 1*PCI slot
- DC 9~36V power input
- Standard VESA mount and panel mounting



Product Overview

ALAD-K2150T(P) is a tablet powered by Intel®Tiger lake U series processors. It adopts 21.5 "1920*1080 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.

Product Parameters

System	
CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port	
LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display	
Dimension	21.5" TFT LCD
Resolution	1920*1080@60Hz
Max. colors	16.7M
Luminance (cd/m²)	300
Viewing Angle	89°(L), 89°(R), 89°(U),89°(D)

Touchscreen	
Touch type	projected capacitive touch screen
Transmittance	90%
Controller	USB

Storage	
Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA

Expansion	
Expansion	1*Mini PCIe(Pcie&USB),Pcie/USB module; 1*M.2 B-Key 3042/3052(+SIM), 4G LTE/5G NR; Opt. 1*PCIeX4 (X4) or 1*32 bit PCI

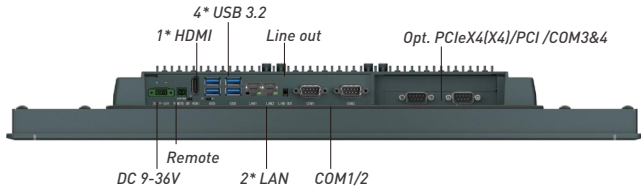
Power Supply	
Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)

Mechanical	
Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	574*345*64mm Panel mounting opening size(W*H): 538*335mm
Installation	Panel/VESA(100*100/75*75mm)
Net Weight	8.15KG

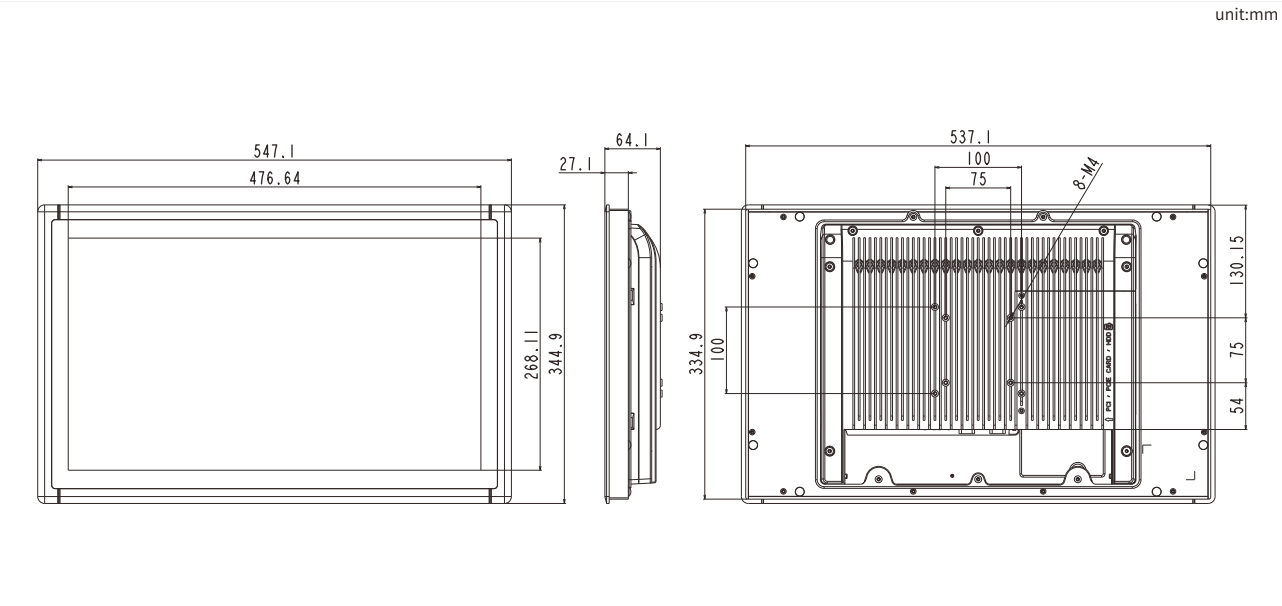
Environmental	
Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

OS	
	Windows 11/10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto

I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen	Specifications
ALAD-K2150T(P)/S001	Intel® Core I3-1115G4	T(P): Projected capacitive touch screen	21.5'' TFT LCD, 4*COM, 2*LAN, 4*USB3.2, 1*HDMI, 1*Mini PCIe, 1*M.2 B-Key, 1*Line out, 1*2.5"SATA, 1*mSATA, 2*3W Amplifier, DC 9~36V
ALAD-K2150T(P)/S002	Intel® Core I5-1135G7		
ALAD-K2150T(P)/S003	Intel® Core I7-1165G7		
ALAD-K2150T(P)/S004	Intel® Celeron 6305E		
ECX-168	1*PCIeX4 slot(X4 signal) (non COM3&4 in use)		
ECl-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 (when use POE network card for expansion)		

ALAD-K2350T(P)

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

Key Specification

- Aluminum die-casting chassis, Full Flat Mirror Panel
- 23.8" Full HD 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
- Optional 1*PCIeX4(X4) or 1*PCI
- DC 9~36V power input
- Standard VESA mount and panel mounting



Product Overview

ALAD-K2350T(P) is a full flat mirror panel powered by an Intel®Tiger lake U series processor. It adopts 23.8 "1920*1080 resolution full HD 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.

Product Parameters

System

CPU	Intel® Tigerlake U Celeron/Core I3/I5/I7 CPU, ULT SoC, TDP 12W/15W
RAM	1*DDR4, 3200Mhz SODIMM, 32GB max.
Graphics	Intel®UHD/ Intel® Iris® Xe Graphics: Intel DL boost, DirectX12.1, OpenGL 4.6 and OpenCL 3.0; HDMI:4096*2304@60Hz

I/O Port

LAN	2*Intel I226V, 10M-1000M, WOL
USB	4*USB3.2
Display	1*HDMI
Audio	1*Line out, Realtek ALC897,2*3W Speaker
Serial port	2*RS232/422/485+2*RS232

LCD Display

Dimension	23.8" TFT LCD
Resolution	1920*1080@60Hz
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	89°(L), 89°(R), 89°(U),89°(D)

Touchscreen

Touch type	projected capacitive touch screen
Transmittance	≥85%
Controller	USB

Storage

Storage	1*2.5" SATA3.0 HDD/SSD, 1*mSATA
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Expansion

Expansion	1*Mini PCIe(PCle&USB),PCle/USB module; 1*M.2 B-Key 3042/3052(+SIM), 4G LTE/5G NR; Opt. 1*PCIeX4 (X4) or 1*32 bit PCI
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Power Supply

Input voltage & TDP	DC IN 9~36V; 11.52W (CPU i7-1165G7, 8G DDR4, 128G SSD)
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Mechanical

Sturcture	Aluminum die-casting front bezel , fin-shaped radiator shell
Dimension (W*H*D)	594*375*64mm Panel mounting opening size(W*H): 583*364mm
Installation	Panel/VESA(100*100/75*75mm)
Net Weight	7.74KG

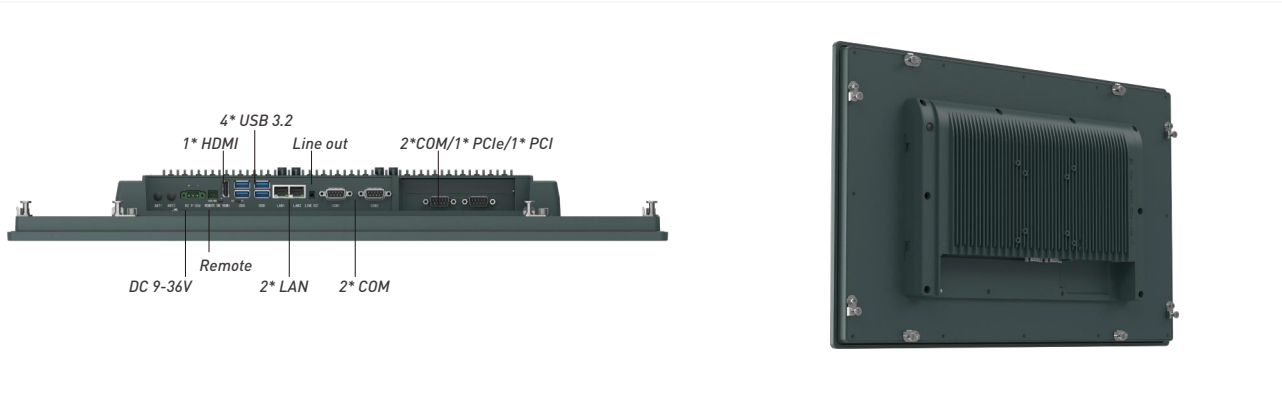
Environmental

Operating Temp	0~ 50°C, HDD(-10 ~ 55°C, SSD),airflow
Storage Temp	-20°C~60°C
Storage Humidity	10~95%@40°C, non-condensing
Vibration	1g 5~500Hz,with HDD
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

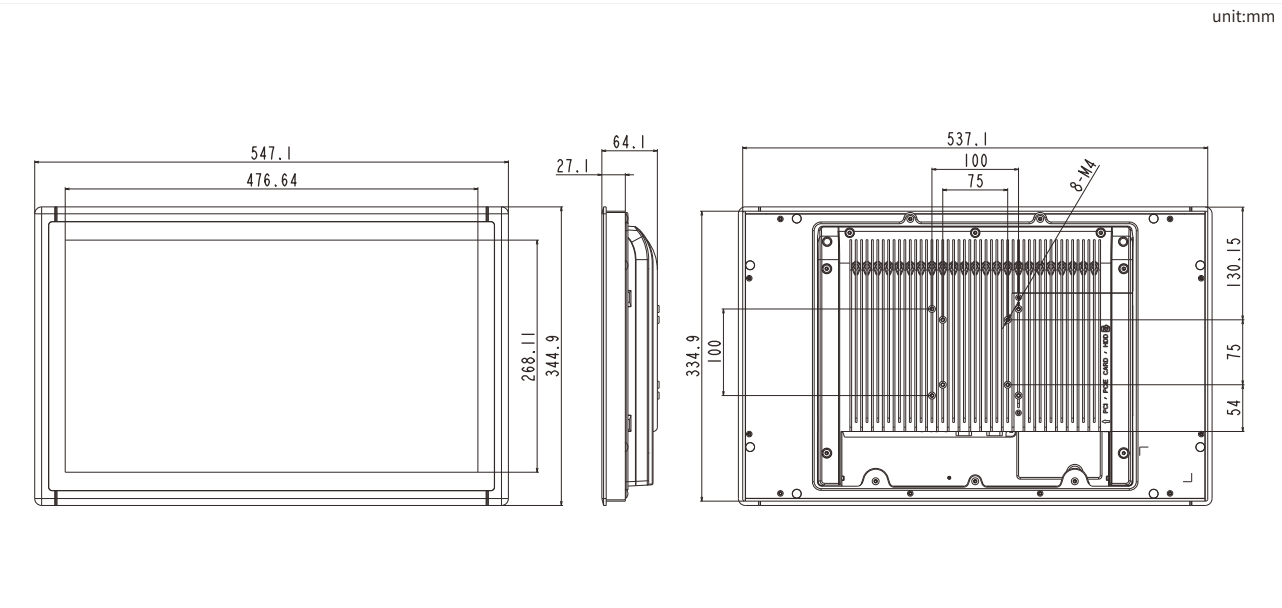
OS

Windows 11/10*IoT enterprise,
Android, SUSE, Ubuntu, Wind River,
Red Hat*Enterprise, Wind River
VxWorks*7, Yocto

I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen	Specifications
ALAD-K2150T(P)/S001	Intel® Core I3-1115G4	T(P): Projected capacitive touch screen	23.8'' 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-K2150T(P)/S002	Intel® Core I5-1135G7		
ALAD-K2150T(P)/S003	Intel® Core I7-1165G7		
ALAD-K2150T(P)/S004	Intel® Celeron 6305E		
ECX-168	1*PCIeX4 slot(X4 signal) (non COM3&4 in use)		
ECl-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 (when use POE network card for expansion)		

WPPC-H1580T

Intel® Celeron J1900 CPU, 2*GbE LAN, 2*COM, 1*USB3.0,3*USB2.0, 1*HDMI, 1*VGA, Stainless steel fanless design

Key Specification

- Intel® Baytrail Celeron J1900 2.0-2.42G CPU
- 1-Ch DDR3L 1333MHZ SODIMM, Up to 8GB
- SUS304 Stainless steel case, 3.0mm 5052 Aluminum alloy back cover
- True-flat design, fanless design
- IP65/IP66 panel protection
- 15" LED TFT LCD, capacitive/Resistive touch screen
- 1*HDMI, 1*VGA,2*GbE LAN,2*COM, 1*USB3.0, 3*USB2.0
- 1*Opt. ANT, support 4G LTE or WiFi/BT4.0
- 1*Mini PCIe (PCIe+USB, w/SIM)
- 1*Simple-swap 2.5" SATA bay , 1*mSATA
- DC 9~36V wide power input



Product Overview

WPPC-H1580T is a rugged and ultra-reliable fanless embedded waterproof panel PC. The front panel uses a SUS304 stainless steel shell, and the back cover uses a 3.0mm 5052 aluminum alloy design, which can not only meet the CPU heat dissipation, but also meet the VESA installation. It has the characteristics of super waterproof, sturdy and reliable, high performance, multiple IO, multiple expansion, and wide range of applications. It's suitable for wet, cold and harsh environments.

Product Parameters

System

CPU	Intel® Baytrail Celeron J1900 2.0-2.42G CPU
RAM	1*DDR3L,1333Mhz SODIMM, Max.8GB
Graphics	Gen.7 Intel® HD Graphics,LCD+HDMI+VGA 3 displays, OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264 VGA:1920*1200@60Hz; HDMI 1920*1080@60Hz

I/O Port

LAN	2*Intel I211AT, Gigabit
USB	1*USB3.0, 3*USB2.0
Display	1*HDMI+1*VGA
Audio	optional audio
Serial port	2*RS232/422/485

LCD Display

Dimension	15" TFT LED
Resolution	1024*768
Max. colors	16.2M
Luminance (cd/m²)	350
Viewing Angle	80°(left), 80°(right), 80°(up),80°(down)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Light Transmission	83/90%
Controller	USB/USB

Storage

Storage	1*2.5" SATA(swappable), 1*mSATA Full-height card, support AHCI
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Expansion

Expansion Port	1*Mini PCIe, with SIM slot
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Power Supply

Power Supply & Power consumption	DC IN 9~36V, D-Jack w/M8, Power consumption: 19.5W
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Mechanical

Sturcture	SUS304 Stainless steel /5052 Aluminum alloy/SECC
Dimension (W*H*D)	405.22*328.22*52.1mm
Installation	Desktop mounting VESA(100*100mm)
Net Weight	5.8KG

Environmental

Operating Temp	0~ 60°C
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

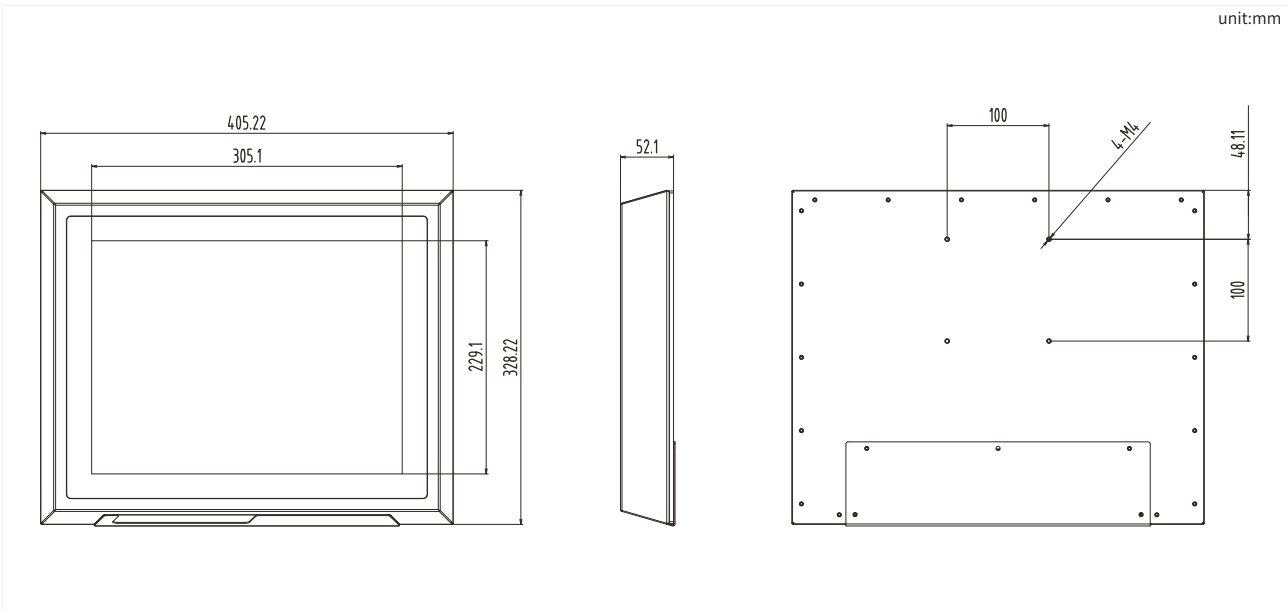
OS

	Windows 7,Windows 8.1, Windows 10,Linux Fedora Ubuntu
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I/O View



Dimensions



Ordering Information

Model	Processor	Touch Screen	Specifications
WPPC-H1580T-T001	Intel® Baytrail Celeron J1900 CPU	5-wire resistive touch screen	15" TFT LCD, 1*HDMI, 1*VGA, 2*G-LAN, 2*COM, 1*Opt. ANT, 1*USB3.0, 3*USB2.0, 1*Mini PCIe , 1*swappable 2.5"SATA bay, 1*mSATA, DC 9~36V
WPPC-H1580T(P)-T001		Projected capacitive touch screen	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W		

WPPC-H1780T

Intel® Celeron J1900 CPU, 2*GbE LAN, 2*COM, 1*USB3.0,3*USB2.0, 1*HDMI, 1*VGA, Stainless steel fanless design

Key Specification

- Intel® Baytrail Celeron J1900 2.0-2.42G CPU
- 1-Ch DDR3L 1333MHZ SODIMM, Up to 8GB
- SUS304 Stainless steel case, 3.0mm 5052 Aluminum alloy back cover
- True-flat design, fanless design
- IP65/IP66 panel protection
- 17" LED TFT LCD, Capacitive/Resistive touch screen
- 1*HDMI, 1*VGA,2*GbE LAN,2*COM, 1*USB3.0, 3*USB2.0
- 1*Opt. ANT, support 4G LTE or WiFi/BT4.0
- 1*Mini PCIe (PCIe+USB, w/SIM)
- 1*Simple-swap 2.5" SATA bay , 1*mSATA
- DC 9~36V wide power input



Product Overview

WPPC-H1780T is a rugged and ultra-reliable fanless embedded waterproof tablet PC. The front panel uses a SUS304 stainless steel shell, and the back cover uses a 3.0mm 5052 aluminum alloy design, which can not only meet the CPU heat dissipation, but also meet the VESA installation. It has the characteristics of advanced waterproof, sturdy and reliable, high performance, multiple IO, multiple expansion, and wide range of applications. It's suitable for wet, cold and harsh environments.

Product Parameters

System

CPU	Intel® Baytrail Celeron J1900 2.0-2.42G CPU
RAM	1*DDR3L,1333Mhz SODIMM Max. 8GB
Graphics	Gen.7 Intel® HD Graphics LCD+HDMI+VGA 3 displays, OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264 VGA:1920*1200@60Hz; HDMI 1920*1080@60Hz

I/O Port

LAN	2*Intel I211AT, Gigabit
USB	1*USB3.0, 3*USB2.0
Display	1*HDMI+1*VGA
Audio	optional audio
Serial port	2*RS232/422/485

LCD Display

Display	17" TFT LED
Resolution	1280*1024
Max. colors	16.2M
Luminance (cd/m²)	600
Viewing Angle	80°(left), 80°(right), 70°(up),80°(down)

Touchscreen

Touch type	5-wire resistive touch screen/projected capacitive touch screen
Light Transmission	83/90%
Controller	USB/USB

Storage

Storage	1*2.5" SATA (swappable) 1*mSATA Full-height card, support AHCI
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Expansion

Expansion Port	1*Mini PCIe, with SIM slot
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Power Supply

Power Supply & Power consumption	DC IN 9~36V, D-Jack w/M8, Power consumption: 30W
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Mechanical

Sturcture	SUS304 Stainless steel /5052 Aluminum alloy/SECC
Dimension (W*H*D)	429.51*364.51*52.1mm
Installation	Desktop mounting VESA(100*100mm)
Net Weight	5.57KG

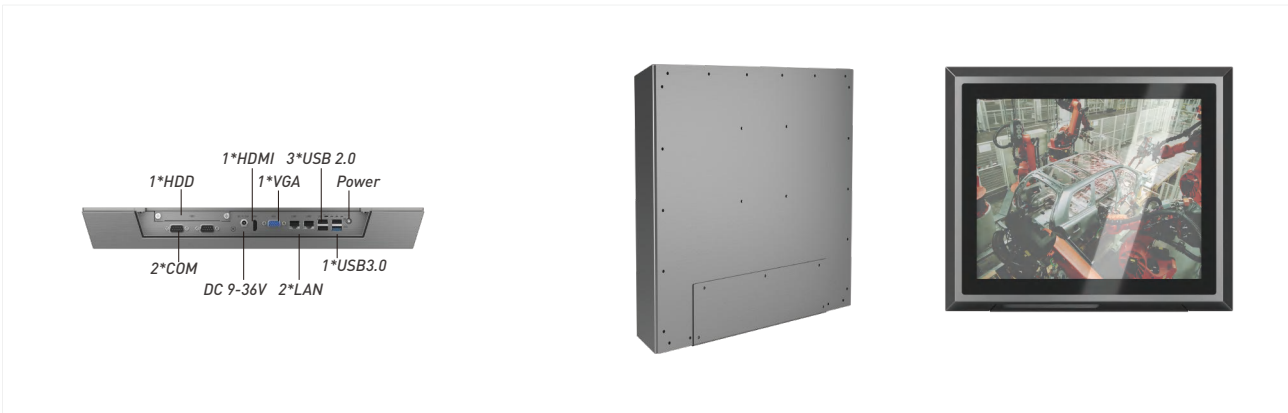
Environmental

Operating Temp	0~ 60°C
Storage Temp	-40°C~85°C
Storage Humidity	10~90%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
EMC	CE,FCC Class A

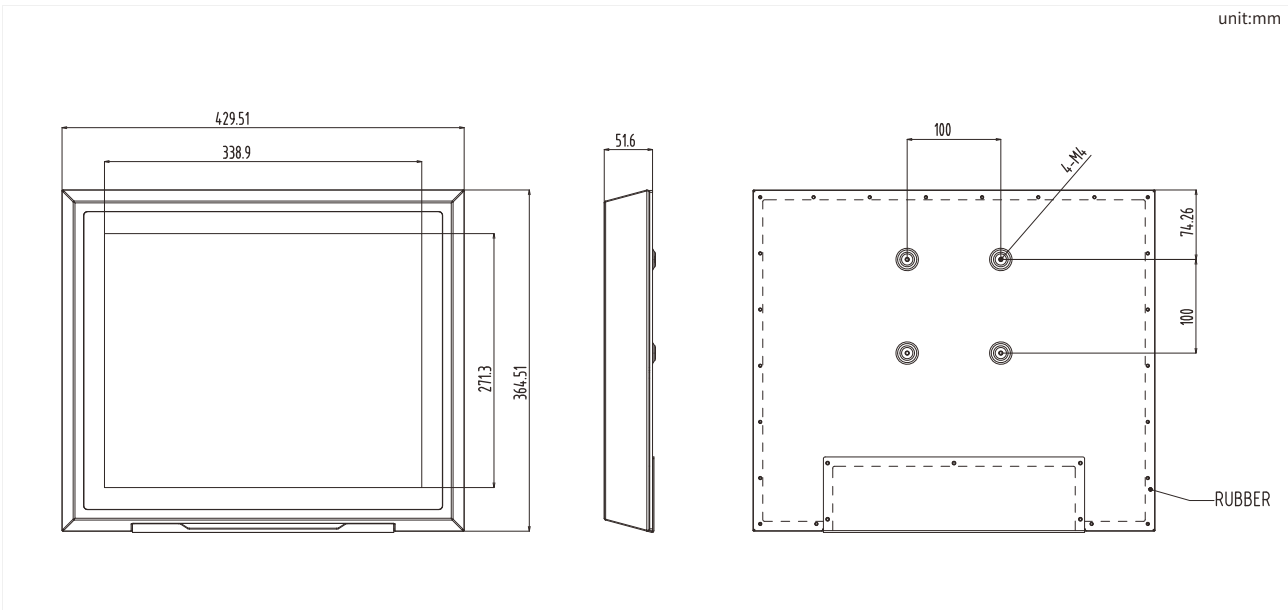
OS

	Windows 7,Windows 8.1, Windows 10,Linux Fedora Ubuntu
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I/O View

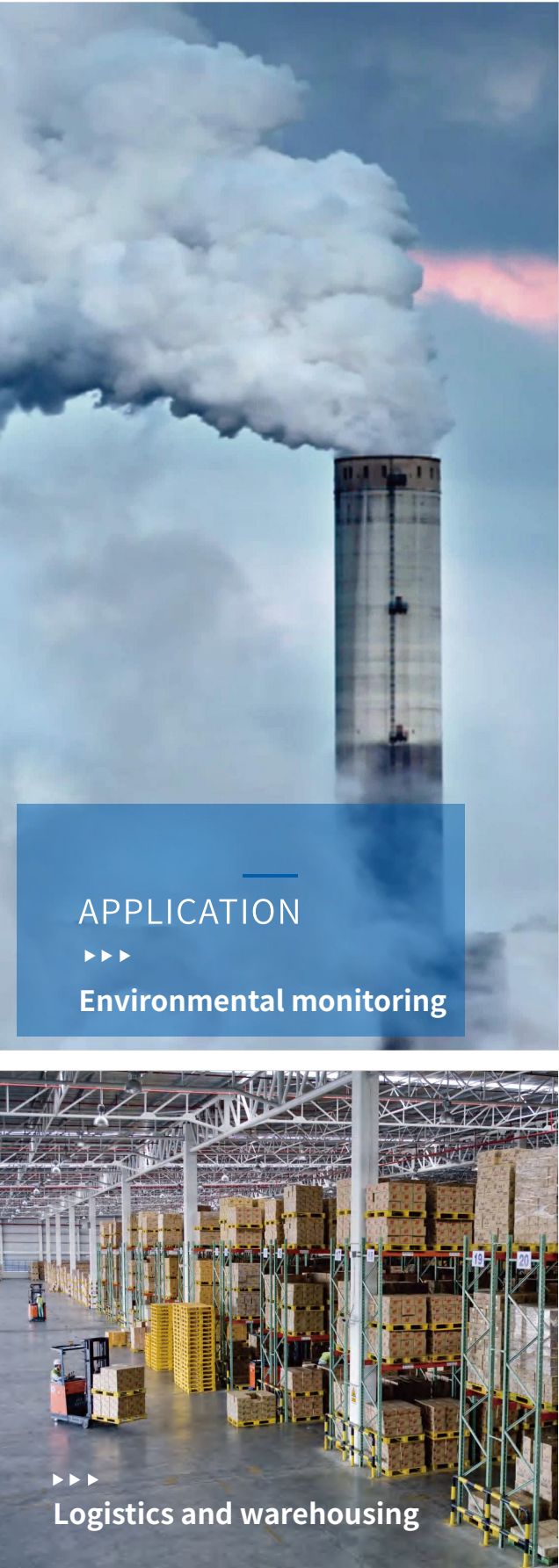


Dimensions



Ordering Information

Model	Processor	Touch Screen	Specifications
WPPC-H1780T-T001	Intel® Baytrail Celeron J1900 CPU	5-wire resistive touch screen	17" TFT LCD, 1*HDMI, 1*VGA, 2*G-LAN, 2*COM, 1*Opt. ANT, 1*USB3.0, 3*USB2.0, 1*Mini PCIe , 1*swappable 2.5"SATA bay, 1*mSATA, DC 9~36V
WPPC-H1780T(P)-T001		Projected capacitive touch screen	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W		



APPLICATION

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Environmental monitoring



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Logistics and warehousing

												
ALAD-101T		ALAD-151T		ALAD-171T		ALAD-181T(P)		ALAD-191T		ALAD-211T(P)		
LCD Display												
Dimension	10.1" TFT LED		15" TFT LED		17" TFT LED		18.5" TFT LED		19"TFT LED		21.5" TFT LED	
Resolution	1280*800		1024*768		1280*1024		1366*768		1280*1024		1920*1080	
Max. colors	16.7M		16.2M		16.2M		16.7M		16.7M		16.7M	
Max. Luminance	350		350		600		300		470		300	
Viewing Angle	85°(left), 85°(right), 85°(up), 85°(down)		80°(left), 80°(right), 80°(up), 80°(down)		80°(left), 80°(right), 70°(up), 80°(down)		89°(left), 89°(right), 85°(up), 85°(down)		85°(left), 85°(right), 75°(up), 85°(down)		89°(left), 89°(right), 89°(up), 89°(down)	
Backlight life	15000 hours/50000 hours		50000 hours		70000 hours		50000 hours		50000 hours		50000 hours	
Touch screen												
Touch type	5-wire resistive touch screen/projected capacitive touch screen		5-wire resistive touch screen/projected capacitive touch screen		5-wire resistive touch screen/projected capacitive touch screen		Projected capacitive touch screen		5-wire resistive touch screen/projected capacitive touch screen		Projected capacitive touch screen	
Light Transmission	80%/90%		83%/90%		80%/90%		90%		83%/90%		90%	
Controller	USB/USB		USB/USB,RS232		USB/USB		USB/RS232		USB/USB		USB/RS232	
I/O Port												
OSD menu/language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages				AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages							
Display	1*VGA+1*HDMI/1*DP (choose one)		1*VGA+1*HDMI/1*DP (choose one)		1*VGA+1*HDMI/1*DP (choose one)		1*VGA+1*HDMI/1*DP (choose one)		1*VGA+1*HDMI/1*DP (choose one)		1*VGA+1*HDMI/1*DP (choose one)	
Audio	1*Line in, 2*2W power speaker		1*Line in, 2*3W power speaker		1*Line in, 2*3W power speaker		1*Line in, 2*3W power speaker		1*Line in, 2*3W power speaker		1*Line in, 2*3W power speaker	
Touch interface	1*RS232 Touch, 1*USB Touch		1*RS232 Touch, 1*USB Touch		1*RS232 Touch, 1*USB Touch		1*RS232 Touch, 1*USB Touch		1*RS232 Touch, 1*USB Touch		1*RS232 Touch, 1*USB Touch	
Power												
Power Input	DC 10-30V		DC 10-30V		DC 10-30V		DC 10-30V		DC 10-30V		DC 10-30V	
Power consumption	12V@0.65A (No Power output)		12V@0.65A (No Power output)		12V@1.6A (No Power output)		12V@1.6A (No Power output)		12V@1.6A (No Power output)		12V@1.6A (No Power output)	
Standby power consumption	Standby power consumption <1W		Standby power consumption <1W		Standby power consumption <1W		Standby power consumption <1W		Standby power consumption <1W		Standby power consumption <1W	
Mechanical												
Structure	Aluminum alloy die-casting, flat panel, cooling fin case		Aluminum alloy die-casting, flat panel, cooling fin case		Aluminum alloy die-casting, flat panel, cooling fin case		Aluminum alloy die-casting, flat panel, cooling fin case		Aluminum alloy die-casting, flat panel, cooling fin case		Aluminum alloy die-casting, flat panel, cooling fin case	
Dimension (W*H*D)	275*193*51mm Panel mounting opening size(W*H): 271*189mm		380*315*56mm Panel mounting opening size (W*H): 367.3*303.3mm		415.5*360.5*59mm Panel mounting opening size (W*H): 407*352mm		482.3*304.3*59.1mm Panel mounting opening size (W*H): 473.8*295.8mm		453.5*388.5*64.1mm Panel mounting opening size (W*H): 445*380mm		546.9*344.7*64.1mm Panel mounting opening size (W*H): 537.5*335.3mm	
Net Weight	1.8kg		4.3kg		TBD		6.6kg		TBD		8.1kg	
Installation	Panel mounting, VESA (75*75mm)		Panel mounting, VESA (100*100/75*75mm)		Panel mounting, VESA (100*100mm)		Panel mounting, VESA (100*100/75*75mm)		Panel mounting, VESA (100*100/75*75mm)		Panel mounting, VESA (100*100/75*75mm)	
Environmental												
Operating Temp	-20~70°C, with air flow		0~50°C, with air flow		0~50°C, with air flow		0~50°C, with air flow		0~60°C, with air flow		0~50°C, with air flow	
Storage Temp	-40~80°C		-20~60°C		-20~60°C		-20~60°C		-40~80°C		-20~60°C	
Humidity	10~95%@40°C, No- condensation		10~95%@40°C, No- condensation		10~95%@40°C, No- condensation		10~95%@40°C, No- condensation		10~95%@40°C, No- condensation		10~95%@40°C, No- condensation	
Vibration	1g 5~500Hz		1g 5~500Hz		1g 5~500Hz		1g 5~500Hz		1g 5~500Hz		1g 5~500Hz	
Shock	10g peak acceleration(duration 11ms)		10g peak acceleration(duration 11ms)		10g peak acceleration(duration 11ms)		10g peak acceleration(duration 11ms)		10g peak acceleration(duration 11ms)		10g peak acceleration(duration 11ms)	
Certificate	CE,FCC Class A		CE,FCC Class A		CE,FCC Class A		CE,FCC Class A		CE,FCC Class A		CE,FCC Class A	

ALAD-101T

10.1" TFT LCD, Capacitive/Resistive touch screen, HDMI/DP (choose one), VGA display, OSD function keys

Key Specification

- Aluminum alloy die-casting, naturally streamlined design
- 10.1" high resolution TFT LCD (LED Backlight)
- 5 wire heat-resistant resistive touch screen
- Optional projected capacitive touch screen,support multi-touch
- HDMI/DP(choose one) and VG signal input
- Audio input, support 2*2W power speaker
- DC 10-30V power input
- True-flat panel, IP65 front panel



Product Overview

ALAD-101T is an industrial touch display that supports 10.1" TFT LED LCD screen, high resolution 1280*800, USB and serial port dual-sig-nal 5-wire resistive touch screen and optional capacitive touch screen. HDMI/DP (choose one). Variety of installation methods for application sites in different fields such as vehicle display, industrial automation, medical treatment, and new energy.

Product Parameters

Display Screen

Dimension	10.1" TFT LED
Resolution	1280*800
Max. colors	16.7M
Max. Luminance	350
Viewing Angle	85°(left), 85°(right), 85°(up), 85°(down)
Backlight life	15000 hours/50000 hours

Touch Screen

Type	5-wire resistive touch screen/projected capacitive touch screen
Light Transmission	80%/90%
Controller	USB/USB

I/O Port

OSD menu/language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages
Display	1*VGA+1*HDMI/1*DP (choos one)
Audio	1*Line in, 2*2W power speaker
Touch interface	1*RS232 Touch, 1*USB Touch

Power

Power input	DC 10-30V
Power consumption	12V@0.65A (No Power output)
Standby power consumption	Standby power consumption <1W

Mechanical

Structure	Aluminum alloy die-casting, flat panel, cooling fin case
Dimension (W*H*D)	275*193*51mm Panel mounting opening size(W*H): 271*189mm
Net Weight	1.8kg
Installation	Panel mounting, VESA (75*75mm)

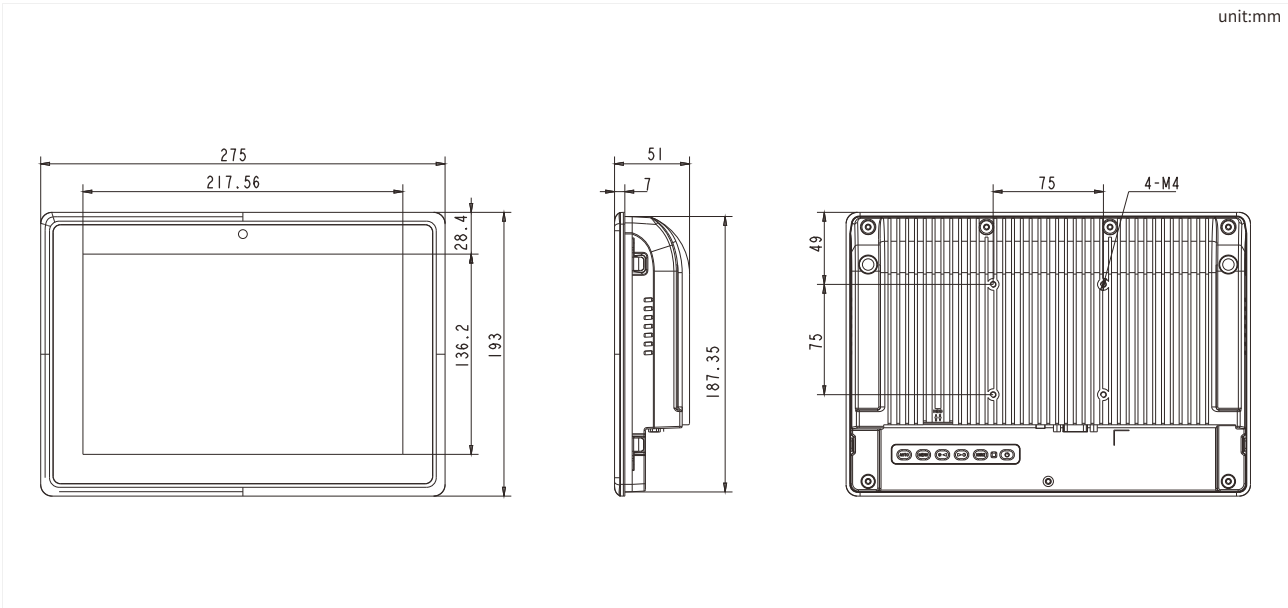
Environmental

Operating Temp	-20~70°C, with air flow
Storage Temp	-40~80°C
Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
Certificate	CE,FCC Class A

I/O View



Dimensions



Ordering Information

Model	Touch Screen	Specifications
ALAD-101T/S001-G	5-wire resistive touch screen	10.1" TFT LCD, 1*HDMI (default) /1*DP(optional) , 1*VGA, 1*Line in, 2*2W power speaker, DC 10-30V power supply
ALAD-101T (P) /S001-G	Projected capacitive touch screen	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W	

ALAD-151T

15" TFT LCD, Capacitive/Resistive touch screen, HDMI/DP (choose one), VGA display, OSD function keys

Key Specification

- Aluminum alloy die-casting, naturally streamlined design
- 15" high resolution TFT LCD (LED Backlight)
- 5 wire heat-resistant resistive touch screen
- Optional projected capacitive touch screen, support multi-touch
- HDMI/DP (choose one) and VGA signal input
- Audio input, optional support 2.3W power speakers
- DC 10-30V power input
- Flat panel, IP65 front panel



Product Overview

ALAD-151-G is an industrial touch display that supports 15" TFT LED LCD screen, high resolution 1280*800, USB and serial port dual-signal 5-wire resistive touch screen and optional capacitive touch screen. HDMI/DP (choose one). It is an industrial-standard multimedia display, with multiple installations suitable for different application sites.

Product Parameters

Display Screen

Dimension	15" TFT LED
Resolution	1024*768
Max. colors	16.2M
Max. Luminance	350
Viewing angle	80°(left), 80°(right), 80°(up), 80°(down)
Backlight life	50000 hours

Touch Screen

Type	5-wire resistive touch screen/projected capacitive touch screen
Light Transmission	83%/90%
Controller	USB/USB,RS232

I/O Port

OSD menu/language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages
Display	1*VGA+1*HDMI/1*DP (choose one)
Audio	1*Line in, 2*3W power speaker
Touch interface	1*RS232 Touch, 1*USB Touch

Power

Power input	DC 10-30V
Power consumption	12V@0.65A (No power output)
Standby power consumption	Standby power consumption <1W

Mechanical

Structure	Aluminum alloy die-casting, flat panel, cooling fin case
Dimension(W*H*D)	380*315*56mm Panel mounting opening size (W*H): 367.3*303.3mm
Net weight	4.3kg
Installation	Panel mounting, VESA (100*100/75*75mm)

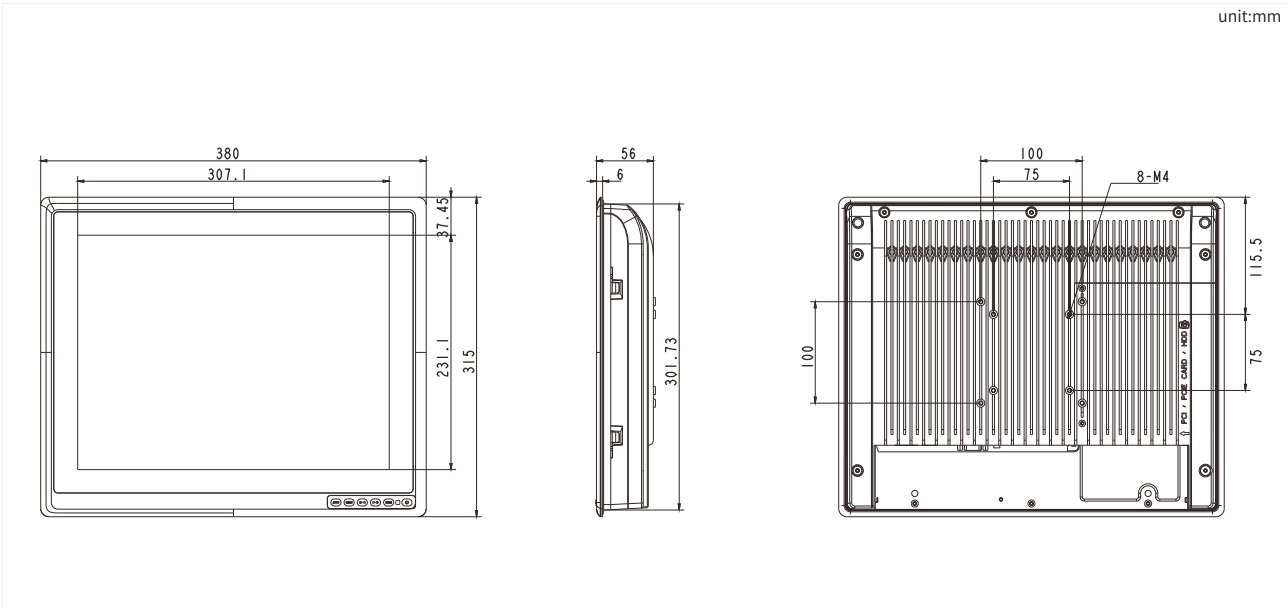
Environmental

Operating Temp	0~50°C, with air flow
Storage Temp	-20~60°C
Storage Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
Certificate	CE,FCC Class A

I/O View



Dimensions



Ordering Information

Model	Touch Screen	Specifications
ALAD-151T/S001-G	5-wire resistive touch screen	15" TFT LCD, 1*HDMI (default) /1*DP(optional) , 1*VGA, 1*Line in, 2*3W power speaker, DC 10-30V power supply
ALAD-151T (P) /S001-G	Projected capacitive touch screen	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W	

ALAD-171T

17" TFT LCD, Capacitive/Resistive touch screen, HDMI/DP (choose one), VGA display, OSD function keys

Key Specification

- Aluminum alloy die-casting, naturally streamlined design
- 17" high resolution TFT LCD (LED Backlight)
- 5 wire heat-resistant resistive touch screen
- Optional projected capacitive touch screen, support multi-touch
- HDMI/DP (choose one) and VGA signal input
- Audio input, optional support 2.3W power speakers
- DC 10-30V power input
- Flat panel, IP65 front panel



Product Overview

ALAD-171T-G is an industrial touch display that supports 17" TFT LED LCD screen, high resolution 1280*1024, USB and serial port dual-sig-nal 5-wire resistive touch screen and optional capacitive touch screen. HDMI/DP (choose one). It is an industrial-standard multimedia display, with multiple installations suitable for different application sites.

Product Parameters

Display Screen

Dimension	17" TFT LED
Resolution	1280*1024
Max. colors	16.2M
Max. Luminance	600
Viewing angle	80°(left), 80°(right), 70°(up), 80°(down)
Backlight life	70000 hours

Touch Screen

Type	5-wire resistive touch screen/projected capacitive touch screen
Light Transmission	80%/90%
Controller	USB/USB

I/O Port

OSD menu /language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages
Display	1*VGA+1*HDMI/1*DP (choose one)
Audio	1*Line in, 2*3W power speaker
Touch interface	1*RS232 Touch, 1*USB Touch

Power

Power input	DC 10-30V
Power consumption	12V@1.6A (No power output)
Standby power consumption	Standby power consumption <1W

Mechanical

Structure	Aluminum alloy die-casting, flat panel, cooling fin case
Dimension (W*H*D)	415.5*360.5*59mm Panel mounting opening size (W*H): 407*352mm
Net weight	TBD
Installation	Panel mounting, VESA (100*100mm)

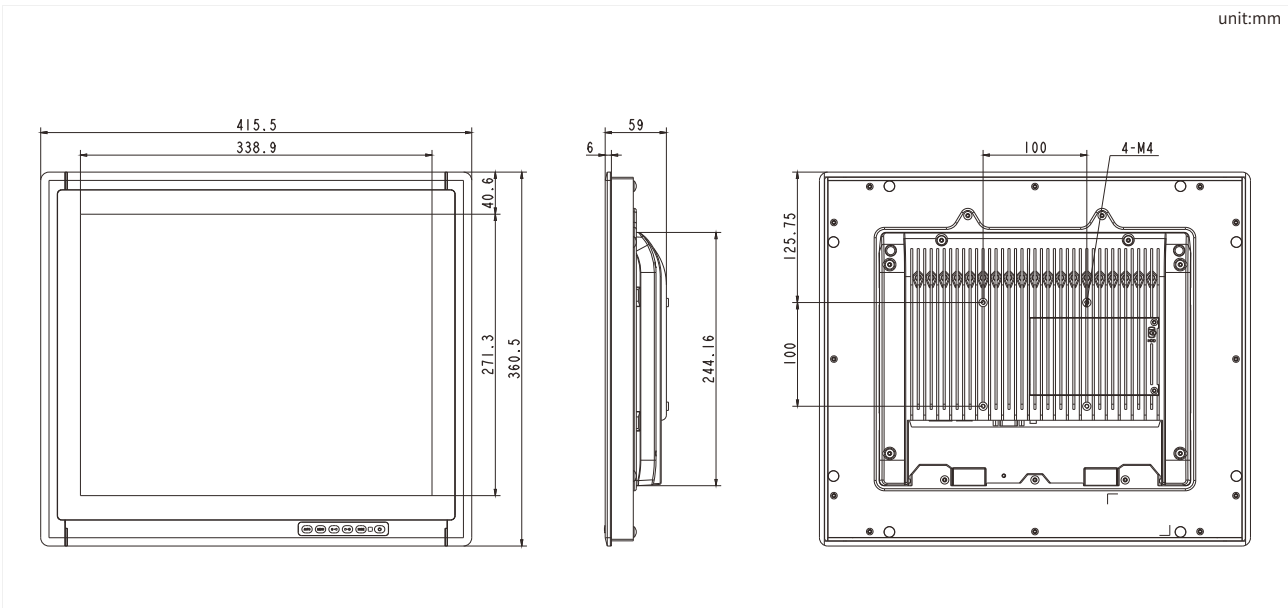
Environmental

Operating Temp	0~50°C, with air flow
Storage Temp	-20~60°C
Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
Certificate	CE,FCC Class A

I/O View



Dimensions



Ordering Information

Model	Touch Screen	Specifications
ALAD-171T/S001-G	5-wire resistive touch screen	17" TFT LCD, 1*HDMI (default) /1*DP(optional) , 1*VGA, 1*Line in, 2*3W power speaker, DC 10-30V power supply
ALAD-171T (P) /S001-G	Projected capacitive touch screen	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W	

ALAD-181T(P)

18.5" TFT LCD, Capacitive touch screen , HDMI/DP (choose one), VGA dual signals, OSD function keys

Key Specification

- Aluminum alloy die-casting, naturally streamlined design
- 18.5" high resolution TFT LCD (LED Backlight)
- Projected capacitive touch screen, support multi-touch
- HDMI/DP (choose one) and VGA signal input
- Audio input, optional support 2.3W power speakers
- DC 10-30V power input
- IP65 certified full-flat panel protection



Product Overview

ALAD-181T-G is an industrial touch display that supports 18.5" TFT LED LCD screen, high resolution 1366*768, USB and serial port dual-signal capacitive touch screen. HDMI/DP (choose one). It is an industrial-standard multimedia display, with multiple installations suitable for different application sites.

Product Parameters

Display Screen

Dimension	18.5" TFT LED
Resolution	1366*768
Max. colors	16.7M
Max. Luminance	300
View angle	89°(left), 89°(right), 85°(up), 85°(down)
Backlight life	50000 hours

Touch Screen

Type	Projected capacitive touch screen
Light Transmission	90%
Controller	USB/RS232

I/O Port

OSD menu/ language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages
Display	1*VGA+1*HDMI/1*DP (choose one)
Audio	1*Line in, 2*3 ower speaker
Touch interface	1*RS232 Touch, 1*USB Touch

Power

Power input	DC 10-30V
Power consumption	12V@1.6A (No power output)
Standby power consumption	Standby power consumption <1W

Mechanical

Structure	Aluminum alloy die-casting, flat panel, cooling fin case
Dimension (W*H*D)	482.3*304.3*59.1mm Panel mounting opening size (W*H): 473.8*295.8mm
Net weight	6.6kg
Installation	Panel mounting, VESA (100*100/75*75mm)

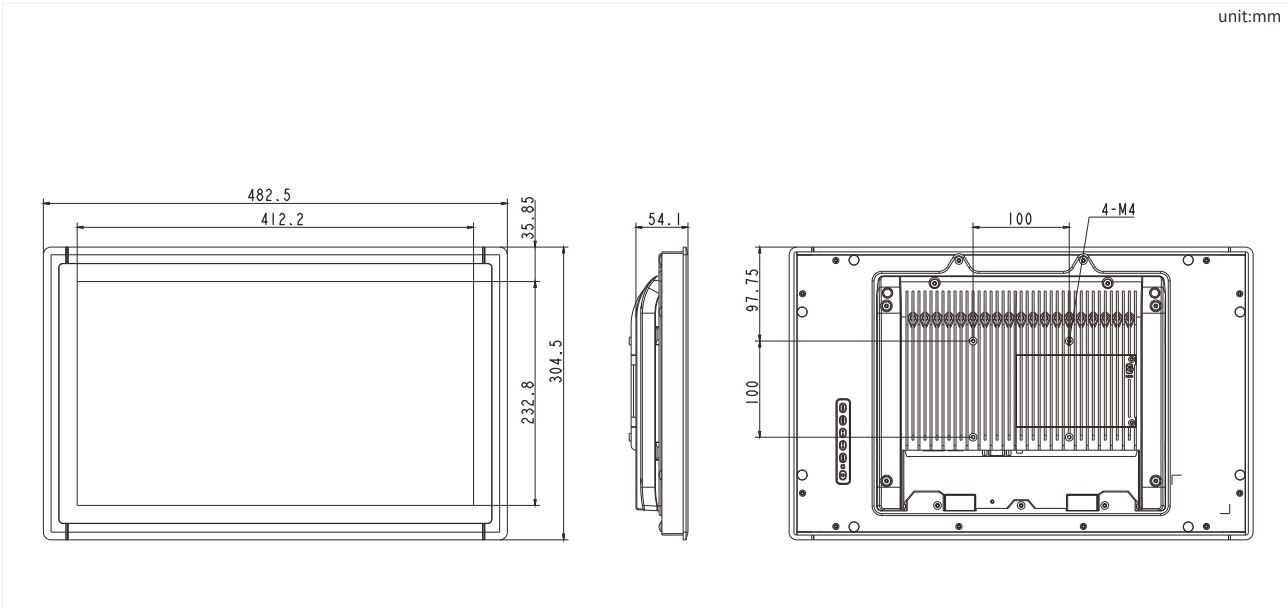
Environmental

Operating Temp	0~50°C, with air flow
Storage Temp	-20~60°C
Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
Certificate	CE,FCC Class A

I/O View



Dimensions



Ordering Information

Model	Touch Screen	Specifications
ALAD-181T (P) /S001-G	Projected capacitive touch screen	18.5" TFT LCD, 1*HDMI (default) /1*DP(optional), 1*VGA, 1*Line in, 2*3W power speaker, DC 10-30V power supply
PA-60DC12	AC/DC adapter, DC12V/5A, 60W	

ALAD-191T

19" TFT LCD, Capacitive/Resistive touch screen, HDMI/DP (choose one), VGA dual signals, OSD function keys

Key Specification

- Aluminum alloy die-casting, naturally streamlined design
- 19" high resolution TFT LCD (LED Backlight)
- 5 wire heat-resistant resistive touch screen
- Optional projected capacitive touch screen, support multi-touch
- HDMI/DP (choose one) and VGA signal input
- Audio input, optional support 2.3W power speakers
- DC 10-30V power input
- Flat panel, IP65 front panel



Product Overview

ALAD-191T-G is an industrial touch display that supports 19" TFT LED LCD screen, high resolution 1280*1024, USB and serial port dual-signal 5-wire resistive touch screen and optional capacitive touch screen. HDMI/DP (choose one). It is an industrial-standard multimedia display, with multiple installations suitable for different application sites.

Product Parameters

Display Screen

Dimension	19" TFT LED
Resolution	1280*1024
Max. colors	16.7M
Max. Luminance	470
View angle	85°(left), 85°(right), 75°(up), 85°(down)
Backlight life	50000 hours

Touch Screen

Type	5-wire resistive touch screen/projected capacitive touch screen
Light Transmission	83%/90%
Controller	USB/USB

I/O Port

OSD menu/ language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages
Display	1*VGA+1*HDMI/1*DP (choose one)
Audio	1*Line in, 2*3W power speaker
Touch interface	1*RS232 Touch, 1*USB Touch

Power

Power input	DC 10-30V
Power consumption	12V@1.6A (No power output)
Standby power consumption	Standby power consumption <1W

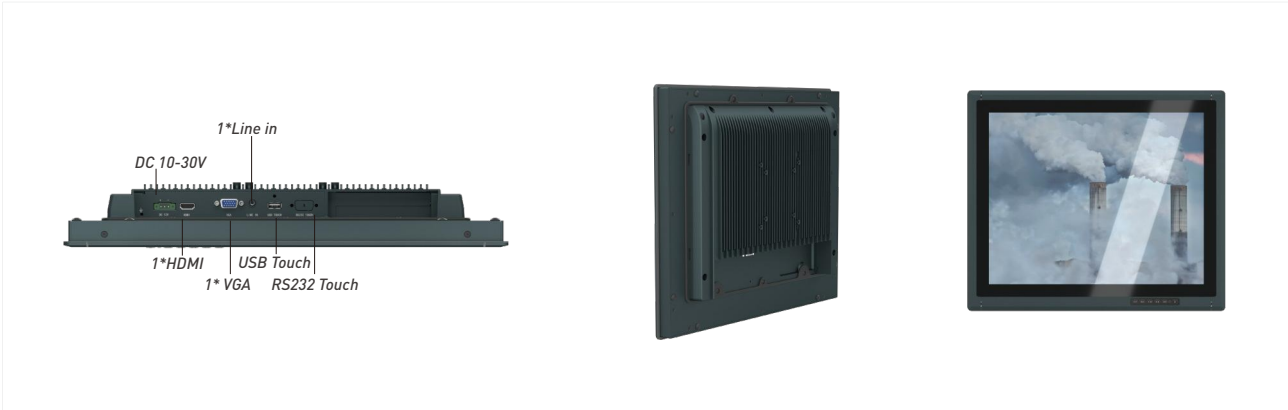
Mechanical

Structure	Aluminum alloy die-casting, flat panel, cooling fin case
Dimension (W*H*D)	453.5*388.5*64.1mm Panel mounting opening size (W*H): 445*380mm
Net weight	TBD
Installation	Panel mounting, VESA (100*100/75*75mm)

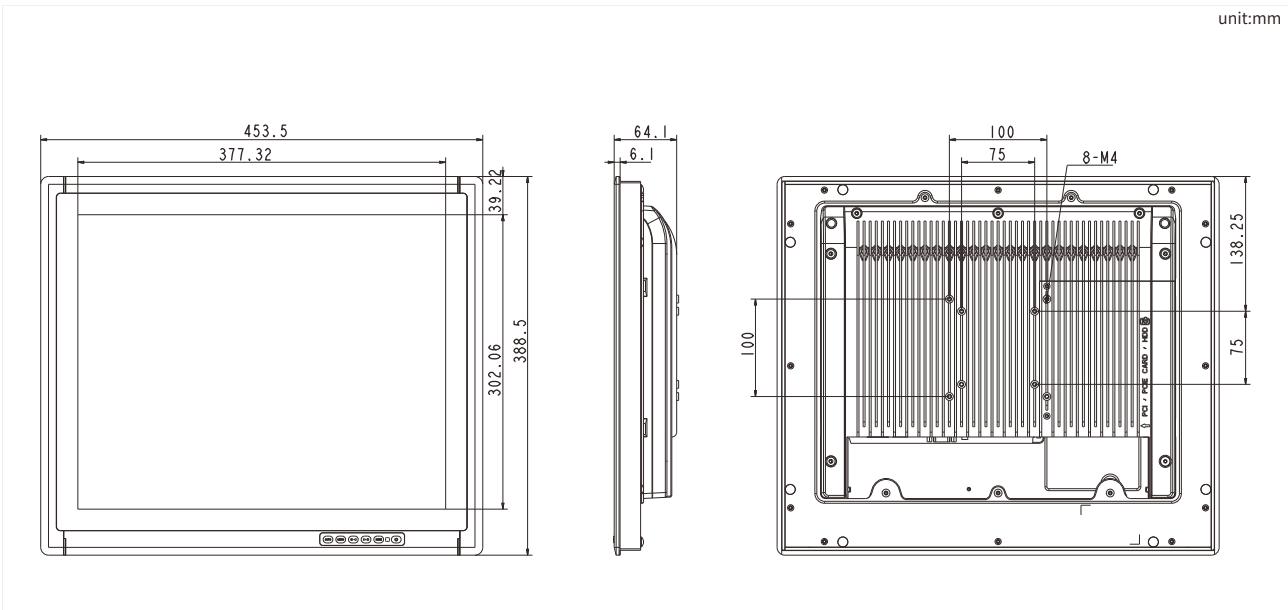
Environmental

Operating Temp	0~60°C, with air flow
Storage Temp	-40~80°C
Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms) with HDD
Certificate	CE,FCC Class A

I/O View



Dimensions



Ordering Information

Model	Touch Screen	Specifications
ALAD-191T/S001-G	5-wire resistive touch screen	19" TFT LCD, 1*HDMI (default) / 1*DP(optional) , 1*VGA, 1*Line in, 2*3W power speaker, DC 10-30V power supply
ALAD-191T (P) /S001-G	Projected capacitive touch screen	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W	

ALAD-211T(P)

21.5" TFT LCD, Capacitive touch screen, HDMI/DP (choose one), VGA dual signals, OSD function keys

Key Specification

- Aluminum alloy die-casting, naturally streamlined design
- 21.5" high resolution TFT LCD (LED Backlight)
- Projected capacitive touch screen, support multi-touch
- HDMI/DP (choose one) and VGA signal input
- Audio input, optional support 2.3W power speakers
- DC 10-30V power input
- Flat panel, IP65 front panel



Product Overview

ALAD-211T-G is an industrial touch display that supports 21.5" TFT LED LCD screen, high resolution 1920*1080,USB and serial port dual-signal capacitive touch screen. HDMI/DP (choose one). It is an industrial-standard multimedia display, with multiple installations suitable for different application sites.

Product Parameters

Display Screen

Dimension	21.5" TFT LED
Resolution	1920*1080
Max. colors	16.7M
Max. Luminance	300
View angle	89°(left), 89°(right), 89°(up), 89°(down)
Backlight life	50000 hours

Touch Screen

Type	Projected capacitive touch screen
Light Transmission	90%
Controller	USB/RS232

I/O Port

OSD menu/ language	AUTO/Power/Menu/Source/UP (LEFT)/DOWN(RIGHT) Chinese, English, German, French, Russian, Italian, Spanish, Arabic and other optional languages
Display	1*VGA+1*HDMI/1*DP (choose one)
Audio	1*Line in, 2*3W power speaker
Touch interface	1*RS232 Touch, 1*USB Touch

Power

Power input	DC 10-30V
Power consumption	12V@1.6A (No power output)
Standby power consumption	Standby power consumption <1W

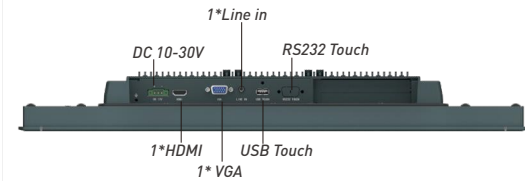
Mechanical

Structure	Aluminum alloy die-casting, flat panel, cooling fin case
Dimension (W*H*D)	546.9*344.7*64.1mm Panel mounting opening size (W*H): 537.5*335.3mm
Net weight	8.1kg
Installation	Panel mounting, VESA (100*100/75*75mm)

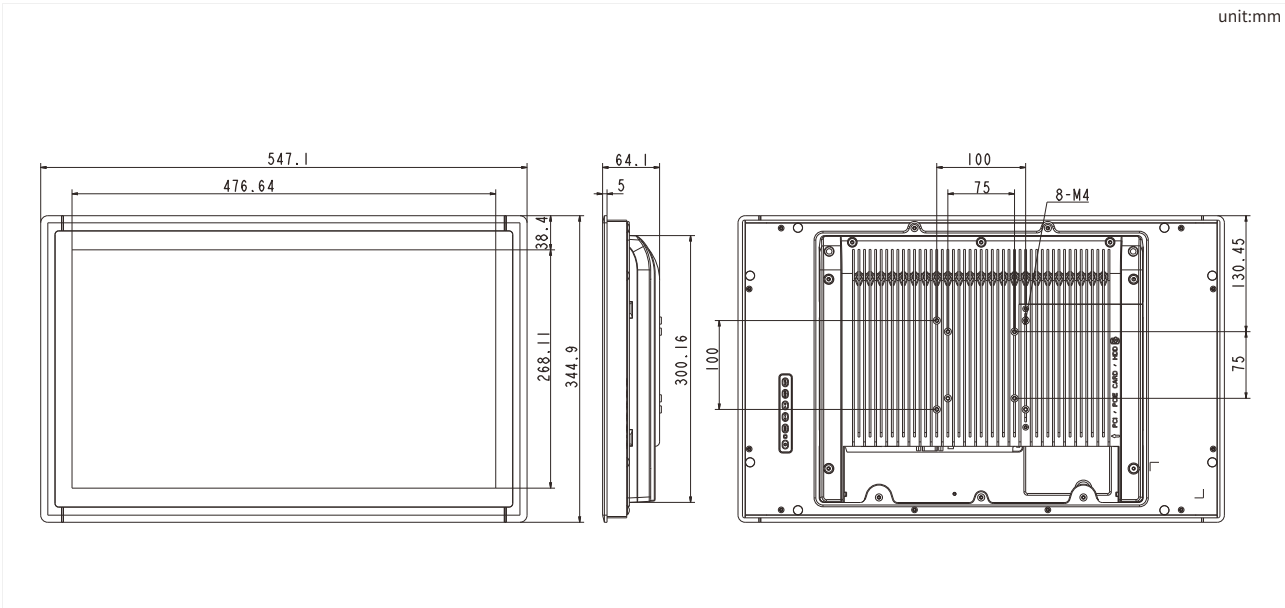
Environmental

Operating Temp	0~50°C, with air flow
Storage Temp	-20~60°C
Humidity	10~95%@40°C, No- condensation
Vibration	1g 5~500Hz
Shock	10g peak acceleration(duration 11ms)
Certificate	CE,FCC Class A

I/O View



Dimensions



Ordering Information

Model	Touch Screen	Specifications
ALAD-211T (P) /S001-G	Projected capacitive touch screen	21.5" TFT LCD, 1*HDMI (default) /1*DP(optional) , 1*VGA, 1*Line in, 2*3W power speaker, DC 10-30V power supply
PA-60DC12		AC/DC power adapter, DC12V/5A, 60W