

1 Safety Precautions

Both the installer and the operator of the Android panel PC must read and understand this installation manual carefully before installing and operating the device.

- Only qualified personnel may install or operate the device.
- The device must be installed according to the installation instructions.
- The device is designed for the installation on a flat surface under the following conditions:
 - No extreme high and low working temperatures
 - no high explosive risks
 - no strong magnetic fields
 - no high polluting risks
- Never allow fluids, metal filings or wiring debris to enter any ventilation openings in device. This could cause fire or electrical shock.
- Don't cover the openings as they are for air convection hence protects the equipment from overheating.
- Don't store the device in an environment where the temperature is lower/higher than recommended in this manual as it may damage the device.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- The LCD display liquid contains a powerful irritant. In case of skin contact, wash immediately with plenty of water. In case of eye contact, hold the eye open, flush with plenty of water and get medical attention.
- The supplier is not responsible for modified, altered or reconstructed equipment.
- The figures in this manual serve an illustrative purpose. Because of the many variables associated with any particular installation, the supplier cannot assume responsibility for actual use based on the figures.
- The supplier neither guarantees that the device is suitable for your particular application, nor assumes responsibility for your product design, installation or operation.

2 Product Specification

2.1 Product Specification (Wide Screen Model)

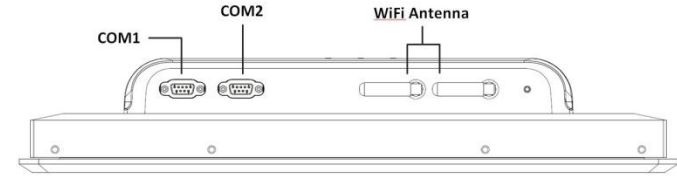
Model	PA10W-N1	PA11W-N1	PA15W-R1	PA17W-R1	PA22W-R1
Type	10.1" TFT	11.6" TFT	15.6" TFT	17.3" TFT	21.5" TFT
Resolution	1280x800	1920x1080	1920x1080	1920x1080	1920x1080
Brightness	300 cd/m ²	300 cd/m ²	300 cd/m ²	400 cd/m ²	250 cd/m ²
Backlight Lifetime	50,000 hr	50,000 hr	50,000 hr	50,000 hr	50,000 hr
CPU	Quad-core A53		Dual-core A72 + Quad-core A53		
RAM/Storage	2G/8G		4G/32G (max. 64G)		
Touch Screen	Projected Capacitive Touch				
COMs	2 x RS232 (422/485 option)				
Ethernet	1 x GbE RJ-45				
USB	2 x USB 2.0, 1 x OTG				
Wireless	WIFI 2.4/5G and Bluetooth BT 4.0, GPS (option)				
Memory Card	MicroSD				
Audio	1 x Audio Out, 2 x Speaker				
Video Output	1 x HDMI 1080P@60fps		1 x HDMI 1080P@60fps or 4K@60fps		
Power Input & Consumption	12~24V, max. 35 watts				
Weight	1.7 Kgs	2.8 Kgs	3.7 Kgs	4.2 Kgs	5.7 Kgs
Operating Temp.	-10~60°C				
Storage Temp.	-20~80°C				
Moisture	10% ~ 80% @40°C				
Construction	Silver Aluminum front bezel and chassis (Black as option)				
IP Rating	IP65 (Front)				
Mounting	Panel mount, VESA 75x75 / 100 x 100				
Dimension(mm) (WxHxD)	283.7x 186.2x56	328.3x 216.3x56	405.3x 254.7x68	452.0x 285.0x67	537.4x 328.8x63
Cut-out(mm) (WxH)	269.7x172.2	314.3x202.3	391.3x240.6	435.0x268.0	523.4x314.8
CE/FCC	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3				
System Support	Android 6.0		Android 7.1		

2.2 Product Specification (Standard 4:3 Screen Model)

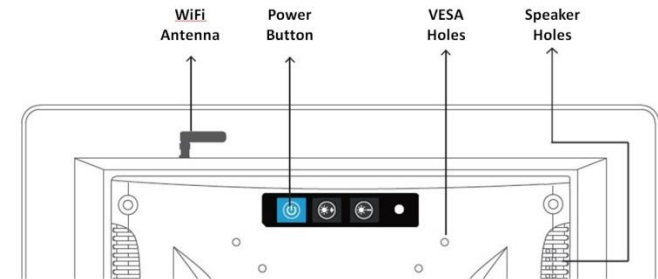
Model	PA10S-N1	PA12S-R1	PA15S-R1	PA17S-R1	PA19S-R1
Type	10.4" TFT	12" TFT	15" TFT	17" TFT	19" TFT
Resolution	1024x768	1024x768	1024x768	1280x1024	1280x1024
Brightness	350 cd/m2	450 cd/m2	450 cd/m2	350 cd/m2	250 cd/m2
Backlight Lifetime	50,000 hr	50,000 hr	50,000 hr	50,000 hr	50,000 hr
CPU	Quad-core A53	Dual-core A72 + Quad-core A53			
RAM/Storage	2G/8G	4G/32G (max. 64G)			
Touch Screen	Projected Capacitive Touch				
COMs	2 x RS232 (422/485 option)				
Ethernet	1 x GbE RJ-45				
USB	2 x USB 2.0, 1 x OTG				
Wireless	WIFI 2.4/5G and Bluetooth BT 4.0, GPS (option)				
Memory Card	MicroSD				
Audio	1 x Audio Out, 2 x Speaker				
Video Output	1 x HDMI 1080P	1 x HDMI 1080P@60fps or 4K@60Hz			
Power Input & Consumption	12~24V, Max. 35 watts				
Weight	TBD	2.8 Kgs	3.7 Kgs	4.2 Kgs	5.6 Kgs
Operating Temp.	-10~60°C				
Storage Temp.	-20~80°C				
Moisture	10% ~ 80% @40°C				
Construction	Silver Aluminum front bezel and chassis				
IP Rating	IP65 (Front)				
Mounting	Panel mount, VESA 75x75 / 100 x 100				
Dimension(mm) (WxHxD)	283.9x 231.3x56	312.3x 250.8x60	366.1x 290.0x62	399.2x 331.6x63	438.6x 363.6x63
Cut-out(mm) (WxH)	267.9x215.3	298.3x236.8	352.1x276.0	385.2x317.6	424.6x349.6
CE/FCC	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3				
System Support	Android 6.0	Android 7.1			

2.3 Mechanic & Interface Description

Top

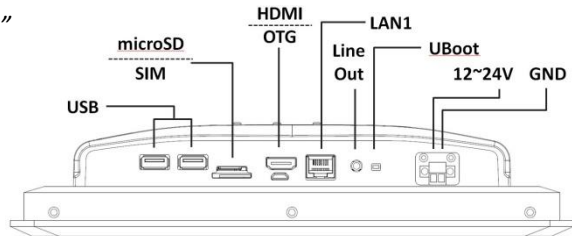


Back

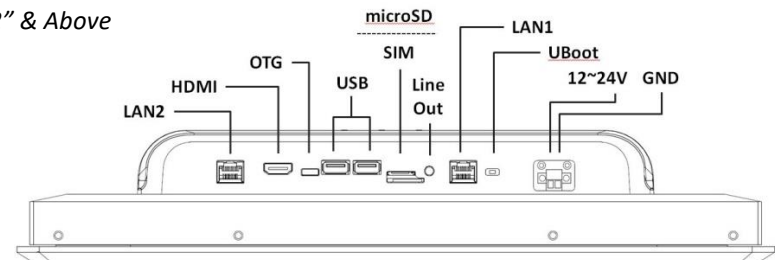


Bottom

Less than 12"



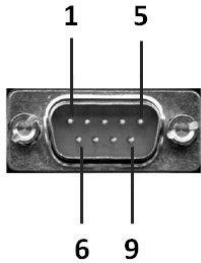
12" & Above



2.4 Communication Ports

COM1 and COM2, 9-pin male connectors, are used to connect the device to a controller via RS232 or RS485.

RS-232 DB-9 male connector

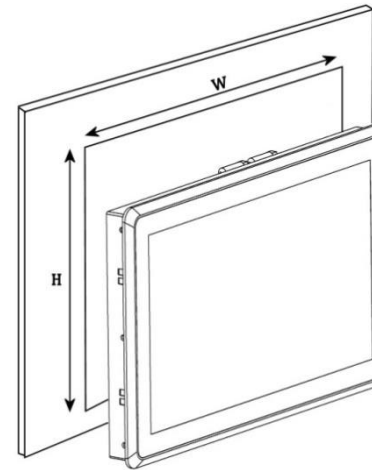


PIN	Assignment
1	
2	RxD
3	TxD
4	
5	GND
6	
7	
8	
9	5V Out ($\leq 0.25A$)

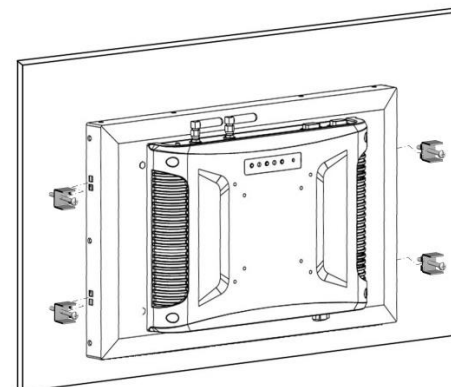
3 Installation

3.1 Mounting the Device

Cut out the mounted panel to match the dimensions (mm) according to the size of the device.



Model	Cut-out	
	W	H
PA10W	269.7	172.2
PA11W	314.3	202.3
PA15W	391.3	240.6
PA17W	435.0	268.0
PA22W	523.4	314.8
PA10S	267.9	215.3
PA12S	298.3	236.8
PA15S	352.1	276.0
PA17S	385.2	317.6
PA19S	424.6	349.6



4 Power Connection

4.1 Power Source

The device is equipped with a 12~24 V DC input. Supply power other than 12~24 VDC \pm 15% will severely damage the unit. Thus, check the power supply supporting the DC power regularly.

4.2 Remove the terminal block

1. Loosen the two screws that secure the terminal block.
2. Gently pull the terminal block away from the connector

4.3 Connect the terminal block

1. Verify that the terminal block is not connected to a power source.
2. Secure the DC power wires to the terminal block. Follow the markings on terminal blocks and power connector for proper connections.

4.4 Install the terminal block

1. Reattach the terminal block to the connector until seated.
2. Tighten the two screws that secure the terminal block to the power connector

4.5 Power on the device

1. Long press the “Power Button” on the back for at least 3 seconds
2. The Android logo screen will be displayed and the system will be started
3. Once Android system is ready, the Android desktop will be displayed

4.6 Power off the device

To power off the device, press the “Power Button” on the back of the device or press the “Power Off” icon on the navigation of the screen

5 General Navigation of Android Device

At the bottom of your device’s screen, you’ll find the navigation bar with these seven buttons:



Hide Bar

Press to hide the Navigation Bar. Swipe up from the bottom of the screen to show the Navigation Bar.



Volume Down

Turn the speaker volume down



Back

Open the previous screen you were working in, even if it was in a different app. Once you back up to the Home screen, you can’t go back any further.



Home

Returns to the Home screen.



Overview

Opens a list of thumbnail images of screens you’ve worked with recently. To open one, touch it. To remove a screen from the list, swipe it left or right or touch the X.



Volume Up

Turn the speaker volume up



Power Off

Power off or reboot the device