



Product Manual

21.5 inch Industrial Touch All-in-one PC



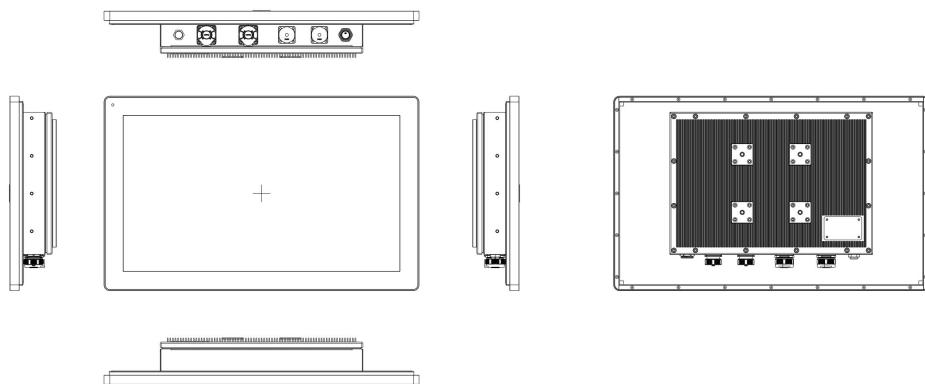
EA-XRN-7B006



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Product Description



This product is a customized industrial touch all-in-one device, which is suitable for the application of intelligent production automation, outdoor advertising, self-service terminals, and customized projects.

The front frame of the product is made of 6mm anti-corrosion aluminum alloy, the rear shell is made of sheet metal, with the high-performance aluminum alloy cooling plate at rear, and the whole device are made of anti-ultraviolet paint process.

The screen of the device is made of 4mm AG anti-glare glass, anti-interference capacitive touch panel and LCD module. It has full viewing angle, wide color gamut, high brightness, and excellent performance for wide temperature working.

The device has a built-in high-performance SBC with Android operating system, which supports wireless Bluetooth, WiFi, and LAN functions.

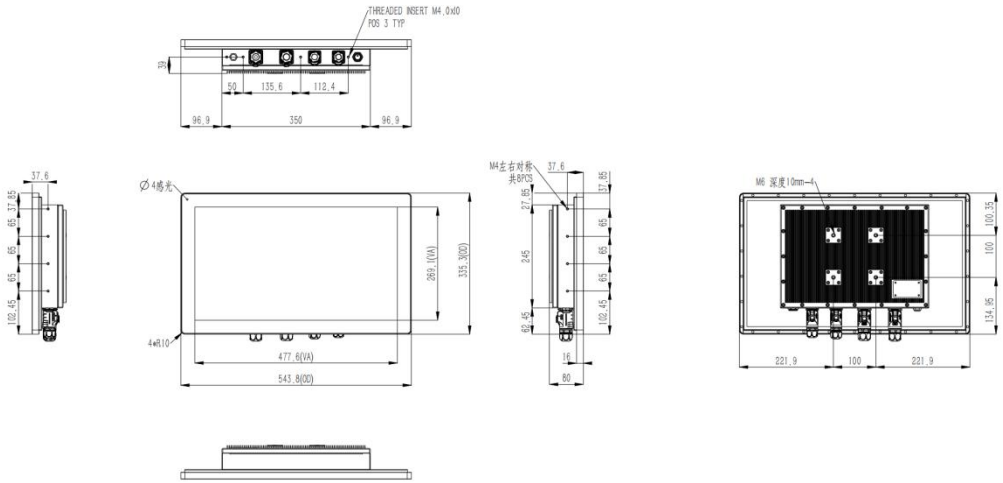
This product has excellent overall performance, rich interfaces, and supports 24/7 uninterrupted and stable work. It is a non-standard customized product.

Product Specification

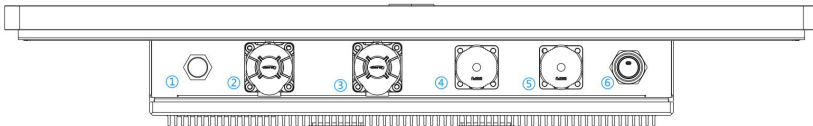
Motherboard	
CPU	Rockchip RK3588 (8nm LPP process) ARM octa-core 64-bit processor, up to 2.4GHz Based on quad-core Cortex-A76 + quad-core Cortex-A55
GPU	Mail-G610 GPU MP4 Quad Core GPU
Memory	LPDDR4 4GB
Storage	eMMC 32GB
HDMI output	1*HDMI 2.1 supports 8K 60Hz output
WIFI、BT	2.4Ghz and 5Ghz Wi-Fi, support Bluetooth
Operating System	Android 12.0
I/O	Power button *1 12V DC IN*1, LAN Rj45*1, HDMI output*1 USB3.0*1 GND*1,
LCD Panel	
Panel size	21.5" TFT LCD screen
Back light	WLED back light
Resolution	1920*1080 (16 : 9 aspect ratio)
Support Color	16.7m 72% ntsc
Brightness (cd/m ²)	1000 nits
Contrast ratio	1000 : 1 (Typ.)
View angle	89/89/89/89 (Typ.)(CR>=10)
Frequency	60Hz
Response Time	17 (Typ.)(g to g) ms
Environment	Operating Temp.: -20 ~ 85℃; Storage Temp.: -20 ~ 85℃

Others	Optical Bonding Technology
	4mm Anti-glare Glass
	Light sensor
Touch Panel	
Touch type	EETI 10 Points Project Capacitive Touch
Response time	5ms
Surface Hardness	7H (4mm AG Glass)
Touch Interface	USB (RS232 optional)
WIFI、BT	2.4Ghz Wi-Fi, support Wi-Fi 802. 11b/g/n, Support Bluetooth
Enclosure	
Waterproof	IP67 for whole device
Material	Aluminum alloy and metal sheet
Color	black
VESA mounting	100mm*100mm
Working Environment	
Power Adapter	Input: AC 100 - 240V , 50-60Hz; Output: 12V DC, 7A
Device working voltage	DC 12V, 5A
Power consumption	≤50W
Temperature Range	operating: -20 to 70°C, storage :-20 to 80°C
Relative humidity	operating: 10% to 80% , storage :5% to 90%
Size and Packing	
Product Dimension	543.8*335.3*80mm
Gross Weight	11KGs
Accessories	Power Adapter*1, Installation screws
Other	
Mounting	Embedded mounting , Wall mounting brackets, Desk stand holder

Product Drawing



Product Interface Description



- ① Air release valve
- ② HDMI output
- ③ USB
- ④ LAN
- ⑤ Power DC IN
- ⑥ Power button

Operation Instructions

1. Turn on the device. Use the power adapter provided by us, connect the plug end to the 110/220Vac socket, and then connect the 3pin 12Vdc connector of the adapter output end into the 3pin 12Vdc input port of the device. After the power is turned on, the device will automatically enter the operating system.
2. The device has M6 VESA mounting holes and mounting screws on the back. During installation, please handle with care and ensure that all screws are tightened to avoid accidental scratches or damage caused by falling off the machine.
3. The device is equipped with an appropriate power adapter. Ensure that the AC voltage 110V/220V during installation, and tighten the aviation power interface at the device end to maintain a good power supply environment.
4. The bottom of the device is equipped with a power switch. After confirming the power connection, it is necessary to turn on the switch before using the device. The LED light on the switch is on for the normal power-on state of the device. Disconnect the power supply when the machine is not in use.
5. It is necessary to prevent rain water or liquid from entering the interface at the bottom of the device so as not to cause short circuit damage to the device.
6. There is a brightness sensor in the upper left corner of the screen, which automatically adjusts the brightness of the screen according to the brightness of the environment. Manual adjustment is not required.
7. The device supports 10-point touch and no driver installation is required.
8. It is recommended not to use in thunderstorm weather, so as not to damage the device.

Safety precautions

Power cord and socket

- (1) Do not overload ac power sockets and extended wires, because overloading may cause fire or electric shock.
- (2) The power cord should be properly set to avoid being trampled or squeezed by objects.
- (3) Check the plug and power cable interface of the device. Remove the power plug before moving the device to avoid damage to the AC power cable, resulting in fire or electric shock.
- (4) Fully insert the AC power plug into the AC power socket. Loose plug may cause sparks and fire.
- (5) When pulling out the AC power cable, hold the plug and do not pull the power cable.
- (6) Do not leave the machine in standby state when it is not used for a long time. Please pull out the plug from the power socket.
- (7) Use the power supply specified on the product label. The three-core power supply must be properly connected to the earth to avoid electric shock.
- (8) Caution should be exercised for emergency power sources that are generated by generators after power failure. Ensure that the voltage remains stable before they can be used. Generally speaking, the voltage in the range of 100V-240V, as long as the voltage continues to be stable, not high or low, the machine can be used normally.

Installation and use

- (1) All interfaces of the machine should be plugged and unplugged in case of power failure. Do not remove the back cover without authorization to avoid electric shock. There are no parts inside the machine that users can handle by yourself. If there is any problem, please contact the customer service center of the machine manufacturer
- (2) Do not use the unit near water, such as bathtubs, swimming pools or damp basements. Do not put water containers (vases, cups, cosmetic cases) on the machine
- (3) Do not place the unit in sunlight or near heat sources, such as radiators, heating equipment, stoves and other heating equipment. The machine is suitable for use in the environment with relatively no electromagnetic interference. If the machine is used near the strong electromagnetic field or where the electromagnetic noise covers the input signal, the picture or sound will fluctuate or produce noise and other interference phenomena.
- (4) Do not let metal or combustible objects fall into the machine, especially when children are present. If an exception occurs, do as follows: 1. Turn off the power immediately. 2. Remove the power plug from the AC power socket

Clean

- (1) Before cleaning the unit, remove the power plug from the AC power socket; otherwise, electric shock may occur. Please wipe the housing with a soft dry cloth. Do not spray volatile compounds on the housing
- (2) Please use neutral detergent dissolved in water to wipe and avoid touching the LCD screen if the case is dirty

(3) Do not use thinner, gasoline, alcohol and other organic solvents to wipe the machine; When wiping the LCD screen, be sure to use a special LIQUID crystal cleaning cloth, or a very soft cotton flannelette, spray a proper amount of non-ionic water, so that the cleaning cloth slightly damp, and then gently wipe; LCD screen is very "delicate", must be wiped gently, in case of broken scree.

Move the device

The machine must be moved by two or more people. When moving, do not shake or shake the whole machine too much. The whole machine may fall and damage or cause personal injury.