

5th Gen A Ruggedized ARM All-in-One Panel PC

With 10.1 " - 21.5 " size options, self-developed industrial motherboard, a variety of configuration options to meet different application needs; body made of aluminum alloy, sturdy structure, fully enclosed fanless design, efficient heat dissipation. Designed for various complex and harsh environments. Built-in independent NPU with 6TOPS AI computing power, supporting lightweight AI application development. Provide SDK package and technical support, widely used in industrial control, military, communication, power, network and other automation fields.

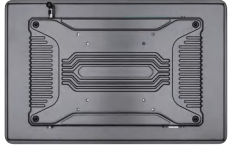
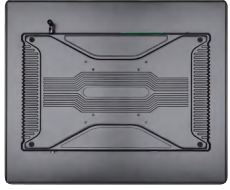
Features >>

- Narrow frame design, independent mold opening.
- Aluminum alloy one-piece die casting, efficient heat dissipation.
- Process structure design of anti vibration radiation layout.
- Seismic stability, safety and reliability, industrial quality.
- RK3588 Octa-core 64 bit 2.4GHz CPU, more powerful AI computing power.
- It is suitable for dust, oil, water mist, strong electromagnetic, high-frequency vibration and other complex heavy industrial environments.
- SDK package is provided to support secondary development and upgrade customization.



10.1"~21.5" optional

Product Model >>

Product size	Non-touch	Capacitive Touch	Resistive Touch	Resolution	Screen Scale	Brightness	Contrast ratio	Viewing Angle	Back Cover Style
10.1"				800*1280	16:10	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (10.1-12 inch small back cover)
10.4"				1024*768	4:3	400cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
11.6"				1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12"				1024*768	4:3	500cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
15"				1024*768	4:3	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	 (15-21.5 inch large back cover)
15.6"				1920*1080	16:9	300cd/m ²	800:1	85/85/85/85 (L/R/U/D)	
17"				1280*1024	5:4	300cd/m ²	1000:1	85/85/80/70 (L/R/U/D)	
17.3"				1920*1080	16:9	300cd/m ²	600:1	80/80/60/80 (L/R/U/D)	
19"				1280*1024	5:4	300cd/m ²	1000:1	85/85/80/80 (L/R/U/D)	
19.1"				1440*900	16:10	300cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
21.5"				1920*1080	16:9	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	

Product Installation >>



Product Specifications >>

Hardware Configuration

CPU	RK3588 Octa-core 64-bit, 2.4GHz, 4*Cortex-A76+4*Cortex-A55
GPU	ARM Mali G610 MP4, 6 TOPS AI power
RAM	8GB LPDDR4 (Optional 4GB/16GB/32GB, Supports up to 32GB)
Storage	64GB eMMC(Optional 128GB/256GB, Supports up to 256GB)
OS	Android 13.0, Linux5.10/Ubuntu20.04/Debian11
4G	4G module interface with built-in MINIPCIE
Network support	4G, Ethernet, support for Wi-Fi/Bluetooth, wireless peripheral expansion

Touch parameters

Capacitive Touch	Touch screen type: 10-point projected capacitive touch screen Light transmittance: $\geq 88\%$ Input mode: handwriting or capacitive pen Controller communication: USB
Resistive Touch	Touch screen type: single point resistive touch screen Light transmittance: $\geq 78\%$ Input mode: Fingertip or stylus Controller communication: USB
Non touch	Light transmittance: $\geq 92\%$

Reliability parameters

Working temperature	Operating temperature: - 10 ° C~60 ° C, storage temperature: - 20 ° C~70 ° C
Operating humidity	Humidity: 95% non condensing

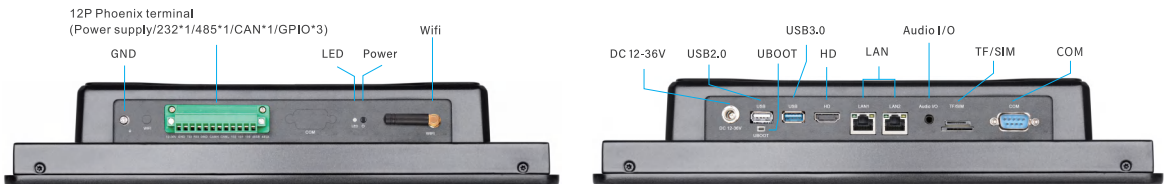
Other parameters

Power input	12-36V power input
Power adapter	24V/2.5A
Fuselage Properties	Body material: aluminum alloy, body color: classic black, technical silver
Warranty policy	Three years (one year free warranty)
Installation method	Support Embedded, Wall-mounted, Desktop, Folding mounting, VESA mount, Suspended mounting, etc.

I/O Interface

PowerSW	1*PowerSW
Power supply	1*Threaded DC connector (Diameter 5.5*2.1mm)
Phoenix terminal	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/CAN*1/GPIO*3)
HDMI	1*HDMI output, supporting up to 4K
USB	2*USB (1*USB 2.0, 1*USB 3.0)
Ethernet	2*LAN, 10M/100M/1000M adaptive Ethernet
TF	1*TF data storage, maximum support 32G
SIM	1*SIM, SIM card interface standard interface supports various formats (depending on 3G / 4G module)
AUDIO	1*Audio I/O, Support audio input and output, Headphone: 3.5mm standard interface
Speaker	2*(8Ω5W)
UBOOT	Support (1*UBOOT)
Serial port	1*COM (The default is RS232, optional RS485/RS422)
Wi-Fi antenna	1*Wi-Fi antenna
Grounding	Support (1*GND)

Interface Distribution >>



Only the 15 inch RK3588 motherboard interface is displayed. Please refer to the actual object for details.