

4th Gen A Fashion Style ARM All-in-One Panel PC

Self-developed industrial-grade ARM architecture motherboard, a variety of configuration options to meet the needs of different applications, built-in NPU with 6TOPS AI arithmetic, support for lightweight AI application development. With 10.1"-21.5" multiple sizes to choose from, aluminum alloy flat panel, fanless fully enclosed integrated design, stylish appearance, technological simplicity, support for desktop, wall-mounted, cantilevered, cantilevered and other installation modes, low-power consumption, good scalability, practicality, and EMC compatibility and other performance.



Features >>

- 10.1"-21.5" multiple sizes available
- Industrial aesthetic design, fashionable and simple appearance, independent molding
- Self-developed ARM architecture industrial motherboard
- RK3588 octa-core 64-bit 2.4GHz high-performance CPU, super AI computing power
- High-precision die-casting aluminum molding, efficient heat dissipation process
- Industrial-grade quality, stable system operation
- Provide SDK package, 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"	TPC101-A401	TPC101-A411	TPC101-A421	1280*800	16:10	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (10.1-15.6 inch Small back cover)
10.4"	TPC104-A401	TPC104-A411	TPC104-A421	1024*768	4:3	400cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-A401	TPC116-A411	TPC116-A421	1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12"	TPC120-A401	TPC120-A411	TPC120-A421	1024*768	4:3	500cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
15.6"	TPC156-A401	TPC156-A411	TPC156-A421	1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
15"	TPC150-A401	TPC150-A411	TPC150-A421	1024*768	4:3	300cd/m ²	800:1	89/89/89/89 (L/R/U/D)	 (17-21.5 inch large back cover)
17"	TPC170-A401	TPC170-A411	TPC170-A421	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-A401	TPC173-A411	TPC173-A421	1920*1080	16:9	300cd/m ²	600:1	80/80/60/80 (L/R/U/D)	
19"	TPC190-A401	TPC190-A411	TPC190-A421	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-A401	TPC191-A411	TPC191-A421	1440*900	16:10	300cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-A401	TPC215-A411	TPC215-A421	1920*1080	16:9	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	

Product Installation >>



Desktop installation

Wall mounted installation

Louver installation

Cantilever installation

Boom type installation

Embedded installation

Product Specifications >>

Hardware Configuration

CPU	RK3588, Eight core 64 bit core architecture, 4 * Cortex-A76+4 * Cortex-A55
GPU	ARM Mali-G610 MC4
RAM	8GB DDR3 (Optional 16GB/32GB)
Storage	64GB eMMC (Optional 128GB)
System	Android 12.0, Ubuntu/Debian/Linux
Ethernet	1000M adaptive Ethernet
4G/5G	Mini Pcie 4G module interface, M.2 5G module interface
Network support	4G, Ethernet, support for WiFi/Bluetooth, wireless peripheral expansion

Touch parameters

Capacitive Touch	Touch screen type: 10 point touch projection 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
Vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, half sine wave, duration 11ms
Product certification	CCC/CE/FCC/EMC/CB/ROHS

Other parameters

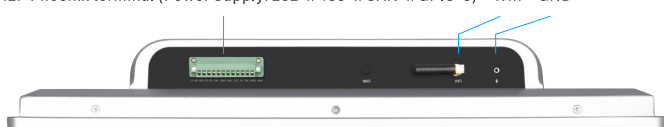
Power input	12-36V power input
Static power	18W
Fuselage Properties	Body material: aluminum alloy, body color: classic black, technical silver
warranty policy	Three years (one year free warranty)
Installation method	Support embedded, wall mounted, desktop, louver, cantilever, boom and other installation methods

I/O Interface

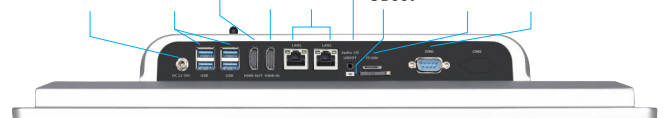
Power interface	1*DC 2.1, Support 12V-36V wide voltage power supply
Industrial terminals	1*12P Phoenix terminal (Power Supply/232*1/485*1/CAN*1/GPIO*3)
HDMI	1*HDMI OUT, 1*HDMI IN, maximum support 8k
USB	4*USB 3.0
LAN	2*1000M adaptive Ethernet
TF	1*TF data storage, maximum support 32GB
SIM	1*SIM, SIM 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
UBOOT	Support (1*UBOOT)
COM	1*COM(The default is RS232, optional RS485/RS422)
Wifi antenna	1*Wifi antenna
Grounding column	Support (1*GND)

Interface Distribution >>

12P Phoenix terminal (Power Supply/232*1/485*1/CAN*1/GPIO*3) Wifi GND



DC 12-36V USB3.0*4 HDMI-OUT Audio I/O HDMI-IN LAN UBoot TF/SIM COM1



Only the 17.3 inch RK3588 motherboard interface is displayed. Please refer to the actual object for details.