

## 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 1TOPS 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, stylish and simple appearance, independent molding
- Self-developed ARM architecture industrial motherboard, RK3568 quad-core 64-bit 2.0GHz CPU
- High-precision die-casting aluminum molding, efficient heat dissipation process
- Industrial-grade quality, stable system operation
- Support desktop, wall-mounted and various installation methods
- 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 <sup>2</sup>	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 <sup>2</sup>	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-A401	TPC116-A411	TPC116-A421	1920*1080	16:9	300cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	
12"	TPC120-A401	TPC120-A411	TPC120-A421	1024*768	4:3	500cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	
15.6"	TPC156-A401	TPC156-A411	TPC156-A421	1920*1080	16:9	300cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	
15"	TPC150-A401	TPC150-A411	TPC150-A421	1024*768	4:3	300cd/m <sup>2</sup>	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 <sup>2</sup>	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-A401	TPC173-A411	TPC173-A421	1920*1080	16:9	300cd/m <sup>2</sup>	600:1	80/80/60/80 (L/R/U/D)	
19"	TPC190-A401	TPC190-A411	TPC190-A421	1280*1024	5:4	300cd/m <sup>2</sup>	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-A401	TPC191-A411	TPC191-A421	1440*900	16:10	300cd/m <sup>2</sup>	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-A401	TPC215-A411	TPC215-A421	1920*1080	16:9	300cd/m <sup>2</sup>	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	RK3568 quad core 64 bit Cortex-A55 core architecture, with a main frequency of up to 2.0GHz
GPU	ARM Mali-G52 2EE
RAM	2GB LPDDR4 (optional 4GB/8GB)
Storage	32GB eMMC (optional 64GB/128GB)
System	Android 12.0, Linux5.10, Ubuntu/Debian
4G	4G module interface with built-in MINIPCIE
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: $-10^{\circ}\text{C}$ ~ $60^{\circ}\text{C}$ , storage temperature: $-20^{\circ}\text{C}$ ~ $70^{\circ}\text{C}$
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 output, supporting up to 4K
USB	2*USB 3.0
LAN	1*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 UBoot USB3.0\*2 SIM/TF HDMI LAN Audio I/O COM1



Only the 17.3 inch RK3568 motherboard interface is displayed. Please refer to the actual object for details.