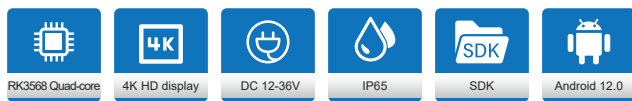


TPC101-A4

The whole machine adopts self-developed industrial motherboard, built-in independent NPU with 1TOPS AI computing power, supporting lightweight AI application development. Aluminium alloy flat panel, fanless fully enclosed integrated design, front IP65 dustproof and waterproof design. The whole machine has high scalability, practicality and EMC compatibility.

Features

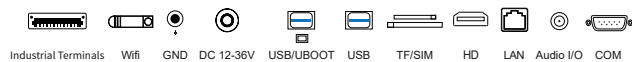
- Industrial aesthetic design, stylish and simple appearance
- Pure flat panel IP65 dust-proof and waterproof.
- Self-developed ARM architecture industrial motherboard
- RK3568 quad-core 64-bit Cortex-A55 core architecture, Up to 2.0GHz
- Built-in independent NPU with 1TOPS AI computing power
- Provide SDK package, Support secondary development and upgrade customization



Product Model

Product Size	10.1"
Non-touch	TPC101-A401
Capacitive touch	TPC101-A411
Resistive touch	TPC101-A421

Product Interface



Product Specifications

Screen Parameters

LCD size	10.1" TFT LCD
Resolution	800*1280 (Aspect Ratio 16:10)
Viewing angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m ²
Contrast ratio	1000:1

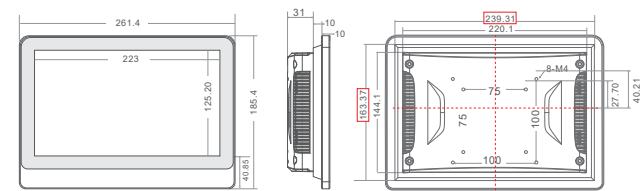
Touch Parameters

Touch type	10-point touch projection Capacitive touch screen	Single-point Resistance touch screen	Non-touch
Transmittance	≥88%	≥78%	≥92%
Input mode	Handwriting or Capacitance pen	Fingertip or stylus	/
Controller communication	USB	USB	/

Hardware Configuration

CPU	RK3568, Quad-core 64-bit Cortex-A55 core architecture, Up to 2.0GHz	NPU	Built-in NPU with 1TOPS AI computing power
Memory	2G LPDDR4 (Optional 4G/8G)	WiFi	WiFi Support
Storage	32G eMMC (64G/128G Optional)	Bluetooth	Support Bluetooth 5.2
GPU	ARM Mali-G52 2EE	Operating system	Android 12.0/Linux 5.10/Ubuntu/Debian

Product Size



Physical Characteristics

Overall dimensions	W261.4x H185.4x D51mm
Size of opening	W241.31 x H165.37mm

Interface Parameters

Industrial terminals	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/CAN*1/GPIO*3)
Power interface	1*DC2.1, Supporting 12V-36V power input
USB	2*USB3.0
TF	1*TF card standard interface
HDMI	1*HDMI, Supporting HDMI data output, Up to 4K
SIM	1*SIM, Supporting various formats (Depending on 3G/4G module)
Network interface	1*LAN, 10M/100M/1000M adaptive Ethernet
Audio interface	1*Audio I/O, Support audio input and output
COM	1*RS232
Reset key	Support (1*UBOOT)
WiFi antenna	1*WiFi antenna
Grounding post	1*Grounding post (GND)

Product Reliability Parameters

Working temperature	-10°C~60°C
Storage temperature	-20°C~70°C
Relative 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, Lasting for 11ms
Product certification	CCC/CE/FCC/EMC/CB/ROHS
Waterproof grade	The front panel reaches IP65 protection level

Power Parameters

Power input	DC 12V-36V
Static power	18W