TPC150-A5

The machine is made of aluminum alloy material, strong structure, fully closed without fan design, efficient heat dissipation, designed for a variety of complex harsh environment.built-in independent NPU, with 1TOPS AI computing capability, and supports lightweight AI application development. With a fanless fully enclosed, and front IP65 dustproof & waterproof design. The whole panel PC has high scalability, practicality, and EMC compatibility.

Features

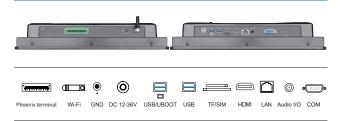- Industrial aesthetic design, independent mold opening
- Aluminum alloy - body die casting, efficient heat dissipation
- Self-developed ARM architecture industrial motherboard
- RK3568 Quad-core 64-bit Cortex-A55 core architecture, Up to 2.0GHz
- Built-in independent NPU with 1TOPS AI computing power
- Provide SDK package, Support secondary development and upgrade customization

RK3568 Quad-core	Fanless cooling	SDK package	IP65 Protection	Expand interface	24H operation

Model

Product size	15"
Non-touch	TPC150-A500
Capacitive touch	TPC150-A510
Resistive touch	TPC150-A520

I/O Interface

Phoenix terminal | Wi-Fi | GND | DC 12-36V | USB/UBOOT | USB | TF/SIM | HDMI | LAN | Audio I/O | COM

Specification

Screen Parameter

Display type	15" TFT LCD screen
MAX.resolution	1024*768 (4:3)
Viewing angle(H/V)	89/89/89/89 (L/R/U/D)
Luminance (cd/m²)	300 cd/m²
Contrast ratio	1000:1

Touch Parameter

Touchscreen	Projection capacitive touch 10-point multi touch	Resistive touch single point	Non-touch
Light transmission	≥88%	≥78%	≥92%
Controller	USB（COM customized)	USB（COM customized)	/

Power Parameter

Power input	DC 12V-36V
Power adapter	24V/2.5A

Configuration

CPU	RK3568, Quad-Core/4-Wire 2.0GHz CPU
Memory/RAM	2GB (Optional 4GB/8GB)
Storage	32GB eMMC (Optional 64GB/128GB/256GB)
NPU	Built-in NPU with 1TOPS AI computing power
Operating system	Android12/14, Linux5.10/Ubuntu20.04/Ubuntu22.04/Debian11

Wi-Fi	Wi-Fi 6 single band, 2.4G
Bluetooth	BT5.2
Watchdog Timer	Support
RTC real time clock	Support
Timer switch	Support

Dimension

Physical Characteristic

Overall dimensions	W365.5X H289.5X D64.5MM
Installation size	W355.5X H279.5MM
Material	Aluminum alloy
Color	Black, optional silve
Installation	Support Embedded/Wall-mounted/Desktop/Folding mounting/VESA mount/Suspended mounting

Interface Parameter

PowerSW	1*PowerSW
Power interface	1*Threaded DC connector (Diameter 5.5*2.1mm)
Phoenix terminal	1*12P Phoenix terminal (DC/RS232*1/RS485*1/CAN*1/GPIO*3)
USB	2*USB3.0
TF	1*TF card standard interface
SIM	1*SIM card slot (should be work with 3G/4G module)
HDMI	1*HDMI output, up to 4K
Ethernet	1*LAN, 10M/100M/1000M adaptive Ethernet, 3G/4G customized
Audio	1*Audio I/O, Support audio input and output
Serial port	1*COM (The default is RS232, optional RS485/RS422)
UBOOT	1*UBOOT
Wi-Fi antenna	1*Wi-Fi antenna
Grounding	1*GND
Speaker	2*(8Ω2W)

Reliability Parameter

Operating temperature	-10°C~60°C (-20°C~70°C can be customized)
Storage temperature	-20°C~70°C
Relative humidity	95% non-condensing