TPC150-A4

The whole machine adopts aluminum alloy flat panel, fanless fully enclosed integrated design, self-developed ARM architecture industrial motherboard, supporting a variety of installation methods, low power consumption, with good scalability, practicality and EMC compatibility and other performance. Widely used in industrial control, military, communication, power and network automation fields.

Features

- Industrial aesthetic design, stylish and simple appearance, independent molding
- RK3588 octa-core CPU, main frequency up to 2.4GHz
- Built-in independent NPU with 6TOPS AI power
- Conforms to EMC anti-electromagnetic interference standards
- Provide SDK package, support secondary development and upgrade customization

RK3588	4K HD	DC 12-36V	IP65 front	SDK	Android 13.0

Model

Product size	15"
Non-touch	TPC150-A401
Capacitive touch	TPC150-A411
Resistive touch	TPC150-A421

I/O Interface

Phoenix Terminal · Wi-Fi · COM · LED · POWER · GND · DC 12-36V · USB/UBOOT · OTG · HDMI · LAN · Audio I/O · TF/SIM

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	RK3588 Octa-core 64-bit, 2.4GHz, 4*Cortex-A76+4*Cortex-A55
Memory/RAM	8GB DDR4 (Optional 4GB/16GB/32GB, Supports up to 32GB)
Storage	64GB eMMC (Optional 128GB/256GB, Supports up to 256GB)
NPU	Built-in NPU with 6TOPS AI computing power
Operating system	Android 13.0, Linux5.10/Ubuntu20.04/Ubuntu22.04/Debian11
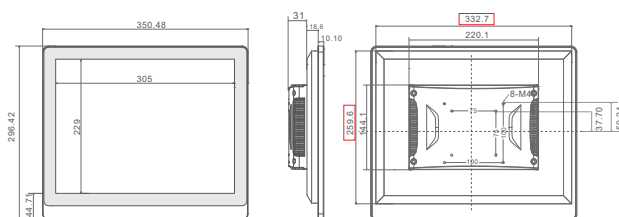
Dimension

Physical Characteristic

Overall dimensions	W350.48x H296.42x D59.7mm
Installation size	W334.7x H261.6mm
Material	Aluminum alloy
Color	Silve, optional black
Installation	Support Desktop/Wall-mounted/Folding mounting/VESA mount/Suspended mounting/Back hanging

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	1*USB, 1*OTG
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	2*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

Wi-Fi	Wi-Fi 6, Dual Band 2.4GHz+5GHz
Bluetooth	BT5.0
Watchdog Timer	Support
RTC real time clock	Support
Timer switch	Support