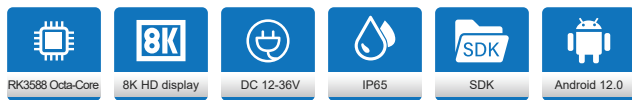# TPC104-A2

The whole panel PC adopts a self-developed industrial motherboard, built-in independent NPU, with 6TOPS Alcomputing capability, and supports lightweight AI application development. Its 3mm ultra-thin front panel canseamlessly fit all kinds of cabinets. With a fanless fully enclosed, and front IP65 dustproof & waterproof design. Thewhole panel PC has high scalability, practicality, and EMC compatibility.

Features

- 3mm Super Thin Front Bezel, Best for Embedded Cabinet.
- Pure flat panel IP65 dust-proof and waterproof.
- RK3588 eight-core high-end CPU , Built-in NPU with 6TOPS AI computing power
- Support 8K ultra-high definition display, support double display, can be customized four display
- Provide SDK package, support secondary development and upgrade customization

RK3588 Octa-Core	8K HD display	DC 12-36V	IP65	SDK	Android 12.0

ISO FC CE CCC RoHS 10

Product Model

Product Size	10.4"
Non-touch	TPC104-A200
Capacitive touch	TPC104-A210
Resistive touch	TPC104-A220

Product Interface

Industrial Terminals	Wifi	GND	DC 12-36V	USB	USB	HDMI-OUT	HDMI-IN	LAN	LAN	Audio I/O	UBOOT	TF/SIM	COM

Product Specifications

Screen Parameters

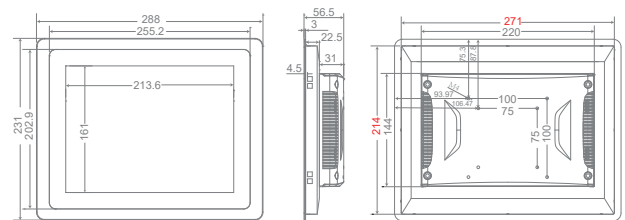| LCD size	10.4" TFT LCD
Resolution	1024*768 (Aspect Ratio 4:3)
Viewing angle	80/80/80/80 (L/R/U/D)
Colour	16.7M
Brightness	400 cd/m²
Contrast ratio	1000:1

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	RK3588, Octa-core 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
Memory	8G DDR3 (Optional: 16G)
Storage	64G eMMC (Optional: 128G)
GPU	Mali-G610 MC4

NPU	Built-in NPU with 6TOPS AI computing power
WiFi	Dual-band WiFi
Bluetooth	Bluetooth support
Operating system	Android 12.0/Linux5.10/Ubuntu/Debian

Product Size

Physical Characteristics

Overall dimensions	W288x H231x D56.5mm
Size of opening	W273 x H216mm

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	4*USB3.0
TF	1*TF card standard interface
SIM	1*SIM, Supporting various formats (Depending on 3G/4G module)
HDMI	1*HDMI OUT ,1*HDMI IN,Support 8K Ultra HD display
Network interface	2*LAN, dual Gigabit adaptive Ethernet interfaces
Audio interface	1*Audio I/O, Support audio input and output
Reset key	Support (1*UBOOT)
COM	1*RS232
WiFi antenna	1*WiFi antenna
Grounding column	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