

TPC120-A210-3588A

Adopting ultra-thin bezel which is more suitable for embedded installation, aluminum alloy structure, fanless and fully enclosed design, up to IP65 dustproof and waterproof, widely used in industrial control, military, power, intelligent self-service terminal equipment and other automation applications. Widely used in industrial control, military, communication, electric power, intelligent self-service terminal equipment and other automation applications.

Features

- 3mm Super Thin Front Bezel, Best for Embedded Cabinet.
- Pure flat panel IP65 dust-proof and waterproof.
- Self-developed ARM architecture industrial motherboard
- RK3588 Octa-core with 6 TOPS NPU
- Wide Temperature Adaptation Efficient Heat Dissipation.
- Provide SDK package, Support secondary development and upgrade customization



Product Model

Product Size	12"
Non-touch	TPC120-A200-3588A
Capacitive touch	TPC120-A210-3588A
Resistive touch	TPC120-A220-3588A

Product Interface



Product Specifications

Screen Parameters

LCD size	12" TFT LCD
Resolution	1024*768 (4:3)
Viewing angle	85/85/85/85 (L/R/U/D)
Color	16.7M
Brightness	500 cd/m ²
Contrast ratio	1000:1

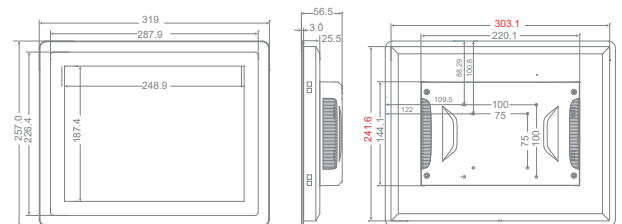
Touch Parameters

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	RK3588 2.1 GHz, Quad-Core Cortex-A76 + Quad-Core Cortex-A55	NPU	Built-in NPU with 6TOPS AI computing power
Memory	8GB LPDDR4 (Optional 4GB/16GB/32GB, Supports up to 32GB)	WiFi	Support WiFi6, Dual-band 2.4G/5G
Storage	64GB eMMC (Supports up to 256GB)	Bluetooth	Support Bluetooth 5.0
GPU	ARM Mali G610 MP4	Operating system	Android 13.0, Ubuntu/Debian/Linux

Product Size



Physical Characteristics

Overall dimensions	W319x H257x D56.5mm
Size of opening	W305.1 x H243.6mm

Interface Parameters

Power interface	1*DC2.1, Supporting 12V-36V power input
Industrial terminals	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/CAN*1/GPIO*3)
USB	2*USB (1*USB2.0, 1*OTG)
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	2*LAN (1*100M, 1*1000M)
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