TPC120-A2

The whole machine adopts the independently developed industrial motherboard, with various configuration schemes to meet different application requirements, 3MM ultra-thin front frame, seamless fitting of various cabinet equipment, aluminum alloy structure, fanless fully closed design, front panel pure flat wire drawing process, dust prevention and waterproof, and the whole machine has good scalability, practicability and EMC compatibility.
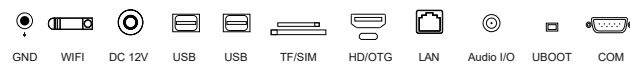
Features

- 3mm Super Thin Front Bezel, Best for Embedded Cabinet.
- Pure flat panel IP65 dust-proof and waterproof.
- Self-developed ARM architecture industrial motherboard
- Comply with EMC anti-electromagnetic interference standard
- Industrial-grade protection, Suitable for various environments
- Provide SDK package and support secondary development

CPU	-10°C-60°C	EMI/MEC	IP65	SDK	Android 6.0
A64 1.5GHz					

ISO FC CE CCC RoHS 10

Product Model

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

Product Interface

GND | WIFI | DC 12V | USB | USB | TF/SIM | HD/OTG | LAN | Audio I/O | UBOOT | COM

Product Specifications

Screen Parameters

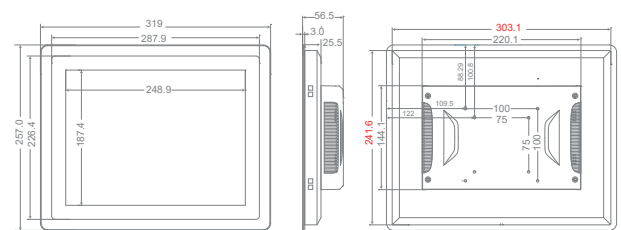|	
LCD size	12" TFT LCD
Resolution	1024*768 (Aspect Ratio 4:3)
Viewing angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	500 cd/m²
Contrast ratio	1000:1

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	Quanzhi A64 Cortex-A53 quad-core 64-bit CPU, Main frequency 1.5GHz		WiFi	Support WIFI
Memory	2G DDR3 (Optional: 4G/8G)		Bluetooth	BT4.1
Storage	8G eMMC (Optional: 16G/32G)		Operating system	Android 6.0
GPU	Mali400MP2		Other	Support RTC real-time clock and timing switch

Product Size

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

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 power input
USB	2*USB
TF	1*TF card standard interface
SIM	1*SIM, Supporting various formats (Depending on 3G/4G module)
HDMI	1*HDMI, Supporting HDMI data output, Up to 4K
OTG	Support (1*OTG)
Network interface	1*LAN, 10M/100M/1000M adaptive Ethernet
Audio interface	1*Audio I/O, Support audio input and output
Reset key	Support (1*UBOOT)
COM	2*RS232
WiFi antenna	1*WiFi antenna

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
Static power	18W