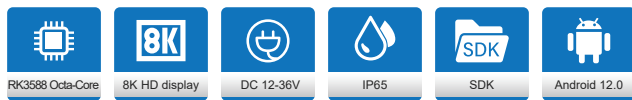


TPC116-A2

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 can seamlessly fit all kinds of cabinets. With a fanless fully enclosed, and front IP65 dustproof & waterproof design. The whole 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



Product Model

| | |
|------------------|-------------|
| Product Size | 11.6" |
| Non-touch | TPC116-A200 |
| Capacitive touch | TPC116-A210 |
| Resistive touch | TPC116-A220 |

Product Interface



Product Specifications

Screen Parameters

| | |
|----------------|---------------------------------|
| LCD size | 11.6" TFT LCD |
| Resolution | 1920*1080 (Aspect Ratio 16:9) |
| Viewing angle | 85/85/85/85 (L/R/U/D) |
| Colour | 16.7M |
| Brightness | 300 cd/m ² |
| Contrast ratio | 1000:1 |

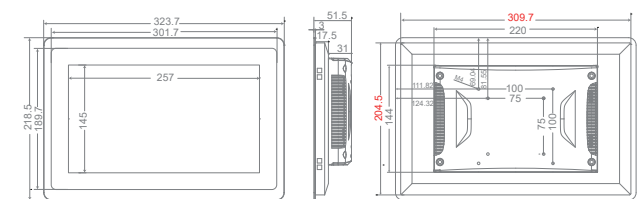
Touch Parameters

| | | | |
|--------------------------|--|---|-----------|
| 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, Octa-core 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz | NPU | Built-in NPU with 6TOPS AI computing power |
| Memory | 8G DDR3 (Optional: 16G) | WiFi | Dual-band WiFi |
| Storage | 64G eMMC (Optional: 128G) | Bluetooth | Bluetooth support |
| GPU | Mali-G610 MC4 | Operating system | Android 12.0/Linux5.10/Ubuntu/Debian |

Product Size



Physical Characteristics

| | |
|--------------------|-------------------------|
| Overall dimensions | W323.7x H218.5x D51.5mm |
| Size of opening | W311.7 x H206.5mm |

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 |