

TPC173-A5

The machine is made of aluminum alloy material, strong structure, fully closed without fan design, efficient heat dissipation, designed for a variety of complex harsh environment. built-in independent NPU, with 6TOPS AI computing capability, and supports lightweight AI application development. With a fanless fully enclosed, and front IP65 dustproof & waterproof design. The whole panel PC has high scalability, practicality, and EMC compatibility.

Features

- Industrial aesthetic design, independent mold opening
- Aluminum alloy - body die casting, efficient heat dissipation
- 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



Model

| | |
|------------------|-------------|
| Product size | 17.3" |
| Non-touch | TPC173-A500 |
| Capacitive touch | TPC173-A510 |
| Resistive touch | TPC173-A520 |

I/O Interface



Specification

Screen Parameter

| | | | |
|--------------------------------|-----------------------|--|--|
| Display type | 17.3" TFT LCD screen | | |
| MAX.resolution | 1920*1080 (16:9) | | |
| Viewing angle(H/V) | 80/80/60/80 (L/R/U/D) | | |
| Luminance (cd/m ²) | 300 cd/m ² | | |
| Contrast ratio | 600:1 | | |

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) | / |

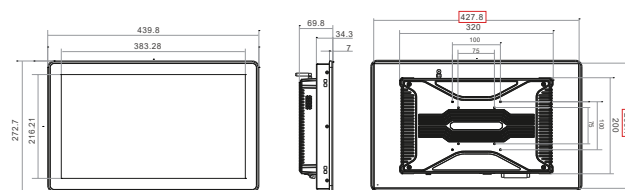
Power Parameter

| | |
|---------------|------------|
| 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 | Wi-Fi | Wi-Fi 6, Dual Band 2.4GHz+5GHz |
| Memory/RAM | 8GB DDR4 (Optional 4GB/16GB/32GB, Supports up to 32GB) | Bluetooth | BT5.0 |
| Storage | 64GB eMMC (Optional 128GB/256GB, Supports up to 256GB) | Watchdog Timer | Support |
| NPU | Built-in NPU with 6TOPS AI computing power | RTC real time clock | Support |
| Operating system | Android 13.0, Linux5.10/Ubuntu20.04/Ubuntu22.04/Debian11 | Timer switch | Support |

Dimension



Physical Characteristic

| | |
|--------------------|--|
| Overall dimensions | W439.8X H272.7X D69.8MM |
| Installation size | W429.8X H262.7MM |
| Material | Aluminum alloy |
| Color | Black, optional silve |
| Installation | Support Embedded/Wall-mounted/Desktop/Folding mounting/VESA mount/Suspended mounting |

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 |