

TPC156-A30

The device employs a self-developed industrial motherboard with a built-in independent NPU, delivering 1 TOPS of AI computing power and supporting lightweight AI application development. The unit features a sleek 2.5mm low-profile narrow bezel panel design, specifically tailored for cabinet-mounted equipment, allowing for seamless flush-mounted installation where the panel sits level with the cabinet. It boasts an IP65-rated flat panel combined with an aluminum alloy die-cast housing, ensuring effective heat dissipation and robust protection.

Features

- Narrow bezel design, built for flush-mounted applications
- Supports wide temperature and wide voltage operation.
- Self-developed ARM architecture industrial motherboard
- RK3568, 4-core 64-bit Cortex-A55, 2.0GHz main frequency
- Built-in independent NPU with 1TOPS AI computing power
- Industrial-grade EMC/ESD/Vibration Resistance Protection



Model

| | |
|------------------|--------------|
| Product size | 15.6" |
| Non-touch | TPC156-A3000 |
| Capacitive touch | TPC156-A3010 |
| Resistive touch | TPC156-A3020 |

I/O Interface



Specification

Screen Parameter

| | | | |
|--------------------------------|-----------------------|--|--|
| Display type | 15.6" TFT LCD screen | | |
| MAX.resolution | 1920*1080 (16:9) | | |
| Viewing angle(H/V) | 85/85/85/85 (L/R/U/D) | | |
| Luminance (cd/m ²) | 300 cd/m ² | | |
| Contrast ratio | 800:1 | | |

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) | / |

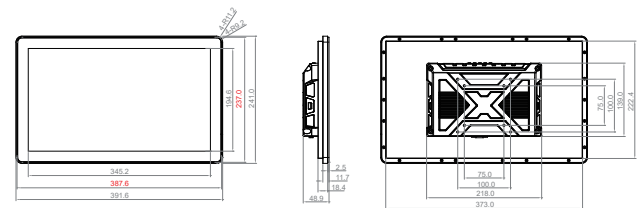
Power Parameter

| | |
|---------------|------------|
| Power input | DC 12V-36V |
| Power adapter | 24V/2.5A |

Configuration

| | | | |
|------------------|--|---------------------|-----------------------------|
| CPU | RK3568, Quad-Core/4-Wire 2.0GHz CPU | Wi-Fi | Wi-Fi 6, dual-band 2.4G/5G. |
| Memory/RAM | 2GB (Optional 4GB/8GB) | Bluetooth | BT5.3 |
| Storage | 32GB eMMC (Optional 64GB/128GB/256GB) | Watchdog Timer | Support |
| NPU | Built-in NPU with 1TOPS AI computing power | RTC real time clock | Support |
| Operating system | Android12/14, Linux5.10/Ubuntu20.04/Ubuntu22.04/Debian11 | Timer switch | Support |

Dimension



Physical Characteristic

| | |
|--------------------|---|
| Overall dimensions | W391.6x H241x D48.9mm |
| Installation size | W387.6x H237mm |
| Material | Aluminum alloy |
| Color | Black, optional silve |
| Installation | Support Embedded installation with iron sheet/ Back-mounted Installation, etc. |

Interface Parameter

| | |
|------------------|---|
| PowerSW | 1*PowerSW |
| Power interface | 3.81-2P Phoenix Terminal (optional upgrade to DC 2.0*1). |
| Phoenix terminal | 3.5-12P Phoenix terminals (2321/4851/CAN1/NC4). |
| USB | 4*USB (2*USB2.0, 2*USB3.0) |
| 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 | 1*LAN, 10M/100M/1000M adaptive Ethernet, 3G/4G customized |
| Audio | 1*Audio I/O, Support audio input and output |
| Serial port | 1*DB9 RS-232 serial port (RS-232/TTL switchable) |
| 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 |