TPC101-A26

It adopts a self-developed industrial motherboard with a built-in independent NPU, with 6TOPS AI computing power, and supports lightweight AI application development. The shell adopts a closed aluminum alloy structure, which has high strength and toughness and high heat dissipation effect, light weight, high strength, corrosion resistance, heat conductivity, compression and impact resistance, and is suitable for multi-purpose application environments.
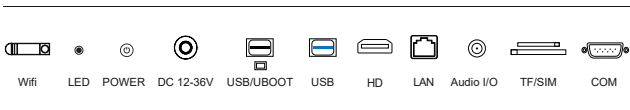
Features

- Ultra-slim body built for flush mounting applications
- It has high strength, toughness and high heat dissipation
- The front panel is IP65 dust and water resistant
- Self-developed ARM architecture industrial motherboard
- RK3588 octa-core high-performance CPU, clocked at 2.0GHz
- Built-in independent NPU with 6TOPS AI computing power
- Provide SDK package and support secondary development

| RK3588 Octa-core | 4K HD display | DC 12-36V | IP65 waterproof | SDK | Android 13.0 |

Product Model

Product Size	10.1"
Non-touch	TPC101-A2600
Capacitive touch	TPC101-A2610
Resistive touch	TPC101-A2620

Product Interface

| Wifi | LED | POWER | DC 12-36V | USB/UBOOT | USB | HD | LAN | Audio I/O | TF/SIM | COM |

Product Specifications

Screen Parameters

LCD size	10.1" TFT LCD
Resolution	1280*800(16:10)
Viewing angle	85/85/85/85 (L/R/U/D)
Color	16.7M
Brightness	300 cd/m²
Contrast ratio	1000:1

Touch Parameters

Touch type	Projection capacitive touch 10-point multi touch	Resistive touch Single point	Non-touch
Transmittance	≥88%	≥78%	≥92%
Touch object	Hand or capacitive touch pen	Fingertip or stylus	/
Protocol/Interface	USB (COM customized)	USB (COM customized)	/

Product Size

Physical Characteristics

Overall dimensions	W260.5x H163x D36mm
Size of opening	W244 x H137.6mm

Interface Parameters

Power interface	1*DC【5.5*2.1mm】 Supporting 12V-36V power input
USB	1*USB, 1*OTG
TF	1*TF card standard interface
HDMI	1*HDMI output, up to 4K
SIM	1*SIM card slot (should be work with 3G/4G module)
Network interface	2*LAN, 10M/100M/1000M adaptive ethernet
Audio	1*Audio I/O
COM	1*RS232
Reset key	Support (1*UBOOT)
WiFi antenna	1*WiFi antenna
Grounding	1*GND

Product Reliability Parameters

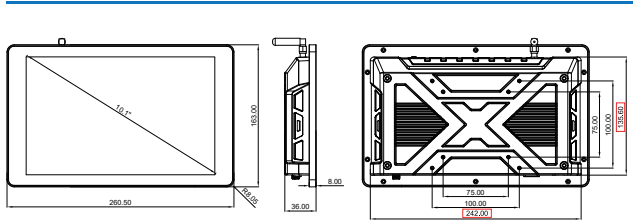| Working temperature	-10°C~60°C(-20°C~70°C can be customized)
Storage temperature	-20°C~70°C
Relative humidity	Humidity: 95% non-condensing
Vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, half sine wave, duration 11ms
IP level	IP65 front panel

Hardware Configuration

CPU	Rockchip RK3588 8-core/8-wire frequency: 2.1 GHz (quad-core Cortex-A76 + quad-core Cortex-A55)		
Memory	8GB (Supports up to 32GB)	NPU	Built-in NPU with 1TOPS AI computing power
Storage	64GB eMMC (Supports up to 256GB)	WiFi	WIFI6 single band, 2.4GHz
GPU	Mali G610 MP4	Bluetooth	Support bluetooth 5.2
Operating system	Android12/Linux5.10/ubuntu20.04/debian11		

Power Parameters

Power consumption	<40W	Static power	18W