National Little Giants Enterprises, granted by the Ministry of Industry and Information Technology of the People's Republic of China

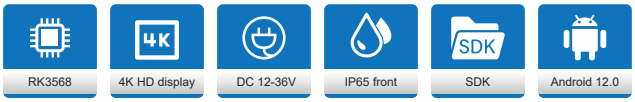
Famous Brand of Shenzhen

TPC173-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 front panel combined with an aluminum alloy die-cast housing, ensuring effective heat dissipation and robust protection.

Features

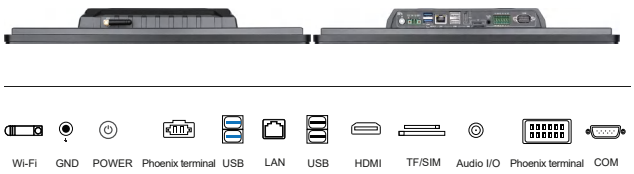
- Narrow bezel design, built for flush-mounted applications
- Supports wide temperature and wide voltage operation.
- Self-developed ARM architecture industrial motherboard
- RK3568, 4-core 64-bit Cortex-A55, 2.0GHz main frequency
- Built-in independent NPU with 1TOPS AI computing power
- Industrial-grade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



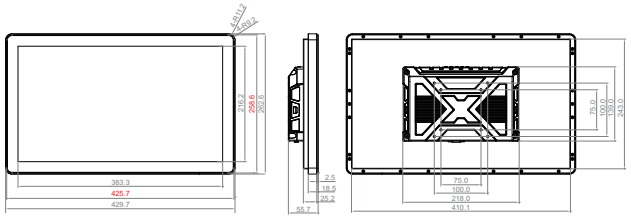
Model

Product size	17.3"
Non-touch	TPC173-A3000
Capacitive touch	TPC173-A3010
Resistive touch	TPC173-A3020

I/O Interface



Dimension



Physical Characteristic

Overall dimensions	W429.7x H262.6x D55.7mm
Installation size	W425.7x H258.6mm
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*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

Specification

Screen Parameter

Display type	17.3" TFT LCD screen
MAX.resolution	1920*1080 (16:9)
Viewing angle(H/V)	80/80/70/80 (L/R/U/D)
Luminance (cd/m²)	400 cd/m²
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	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

* All specifications and photos are subject to change without notice.

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