





TPC190-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	19"
Non-touch	TPC190-A3000
Capacitive touch	TPC190-A3010
Resistive touch	TPC190-A3020

I/O Interface



Specification

Screen Parameter				
Display type	19" TFT LCD screen			
MAX.resolution	1280*1024 (5:4)			
Viewing angle(H/V)	85/85/80/80 (L/R/U/D)			
Luminance (cd/m²)	300 cd/m ²			
Contrast ratio	1000:1			
Touch Parameter				
Touchscreen	Projection capacitive touch 10-point multi touch	Resistive touch single point	Non-touch	
Light transmission	≥88%	≥78%	≥92%	

|--|

Power Parameter

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

Configuration

0			
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

ww.touchthink.net



USB (COM customized) /



Dimension



Physical Characteristic

Overall dimensions	W425.3x H349.8x D62.5mm	
Installation size	W421.3x H346.1mm	
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 Paramete	r	
Operating temperature	-10°C~60°C (-20°C~70°C can be customized)	
Storage temperature	-20°C~70°C	
Relative humidity	95% non-condensing	