





TPC104-A29

Adopting self-developed industrial motherboard, built-in independent NPU, with 1TOPS AI arithmetic, support for lightweight AI application development; the shell adopts closed aluminum alloy structure, back cover die-casting, with high strength and toughness and high heat dissipation, light weight, high strength, corrosion-resistant and heat conductive, compression and impact resistance, adaptable to multi-purpose application environments.

Features

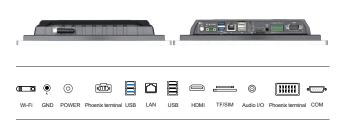
- · High-precision die-cast aluminum molding with high-strength toughness and high heat dissipation effect
- · Self-developed ARM architecture industrial motherboard
- RK3568, 4-core 64-bit Cortex-A55, 2.0GHz main frequency
- Built-in independent NPU with 1TOPS AI computing power
- Support secondary development and upgrade customization



Model

Product size	10.4"
Non-touch	TPC104-A2900
Capacitive touch	TPC104-A2910
Resistive touch	TPC104-A2920

I/O Interface



Specification

Screen Parameter			
Display type	10.4" TFT LCD screen		
MAX.resolution	1024*768(4:3)		
Viewing angle(H/V)	80/80/80/80 (L/R/U/D)		
Luminance (cd/m²)	400 cd/m ²		
Contrast ratio	1000:1		
Touch Parameter			
Touchscreen	Projection capacitive	Resistive touch	Non-touch

	Touchscreen	Projection capacitive touch 10-point multi touch	Resistive touch single point	Non-touc
	Light transmission	≥88%	≥78%	≥92%
	Controller	USB (COM customized)	USB (COM customized)	1

Power Parameter

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

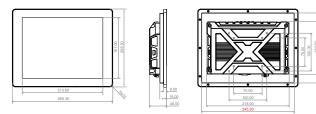
Configuration

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CPU	RK3568, Quad-Core/4-Wire 2.0GHz CPU	Wi-Fi	Wi-Fi 6, Dual Band 2.4GHz+5GHz
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	W266.3x H206.3x D46mm	
VESA	75x75mm, 100x100mm, M4 screw hole	
Material	Aluminum alloy	
Color	Black, optional silve	
Installation	Supports Back mounted/Wall mounted/Desktop/Louver/Cantilever Boom type, etc.	
Interface Paramete	er	
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)	

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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

Wi-Fi	Wi-Fi 6, Dual Band 2.4GHz+5GHz
Bluetooth	BT5.3
Watchdog Timer	Support
RTC real time clock	Support
Timer switch	Support

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