# **TSAIO-238-A26**

It adopts a self-developed industrial motherboard with a built-in independent NPU, with 1TOPS 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
- RK3568 quad-core 64-bit Cortex-A55 core architecture, up to 2.0GHz
- · Built-in independent NPU with 1TOPS AI computing power
- Provide SDK package and support secondary development

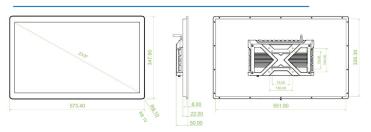




## **Product Interface**



# **Product Size**





LED POWER DC 12-36V USB/UBOOT

Screen Parameters		
LCD size	23.8" TFT LCD	
Resolution	1920*1080(16:9)	
Viewing angle	89/89/89(L/R/U/D)	
Colour	16.7M	
Brightness	250 cd/m²	
Contrast ratio	1000:1	

# **Product Specifications**

Touch Parameters			
Touch type	10-point touch projection Capacitive touch screen	Single-point Resistance touch screen	Non-touch
Transmittance	≥88%	≥78%	≥92%
Input mode	Handwriting or Capacitance pen	Fingertip or stylus	1
Controller communication	USB	USB	1

### **Physical Characteristics**

Interface Parameters		
Size of opening	W553.8x H328.3mm	
Overall dimensions	W573.4x H347.9x D50mm	

Interface Paramete	ers
Power interface	1*DC [5.5*2.1mm] Supporting 12V-36V power input
USB	2*USB3.0
TF	1*TF card standard interface
HDMI	1*HDMI, Supporting HDMI data output, up to 4K
SIM	1*SIM, Supporting various formats (Depending on 3G/4G module
Network interface	1*LAN, 10M/100M/1000M adaptive Ethernet
Audio interface	1*Audio I/O, Support audio input and output
COM	1*RS232
Reset key	Support (1*UBOOT)
WiFi antenna	1*WiFi antenna
Grounding post	1*Grounding post (GND)

### **Product Reliability Parameters**

Working temperature	-10°C~60°C
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, Lasting for 11ms
Waterproof grade The front panel reaches IP65 protection level	

## **Hardware Configuration**

CPU	RK3568, Quad-core 64-bit Cortex-A55 core architecture, up to 2.0GHz	NPU	Built-in NPU with 1TOPS AI computing power
Memory	2G LPDDR4 (Optional 4G/8G)	WiFi	WIFI6 Single Band, 2.4GHz
Storage	32G eMMC (optional 64G/128G, It supports up to 256G)	Bluetooth	Support Bluetooth 5.2
GPU	ARM Mali-G52 2EE	Operating system	Android12/Linux5.10/ubuntu20.04/debian11

Power Parameters			
Power input	DC 12V-36V	Static power	18W

