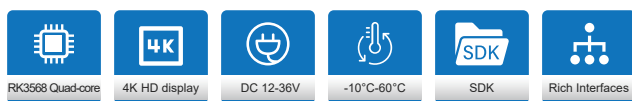


# TPC238-A19

Aluminum alloy panel structure, IP65 waterproof front panel, the whole machine has low power consumption, 2.5mm short step narrow edge panel design, designed for cabinet equipment supporting the creation of seamless embedded installation, the panel is flush in the cabinet, harmonious and neat, highlighting the beauty of science and technology.

## Features

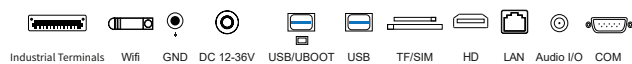
- Narrow bezel design built for flush mount applications
- High-precision aluminum alloy die-casting, IP65 waterproof and dustproof front panel
- Self-developed ARM architecture industrial motherboard
- RK3568 Quad-core 64-bit Cortex-A55 core architecture, Up to 2.0GHz
- Built-in independent NPU with 1TOPS AI computing power
- Provide SDK package, Support secondary development and upgrade



## Product Model

Product Size	23.8"
Non-touch	TPC238-A1900
Capacitive touch	TPC238-A1910
Resistive touch	TPC238-A1920

## Product Interface



## Product Specifications

### Screen Parameters

LCD size	23.8" TFT LCD		
Resolution	1920*1080 ( Aspect Ratio 16:9 )		
Viewing angle	89/89/89/89 (L/R/U/D)		
Colour	16.7M		
Brightness	250 cd/m <sup>2</sup>		
Contrast ratio	1000:1		

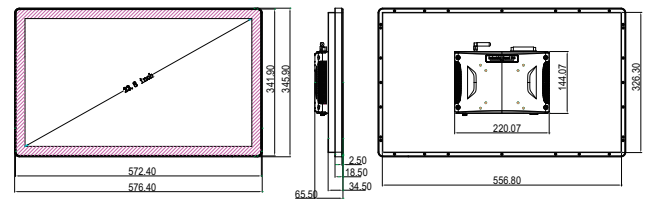
### Touch Parameters

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	/
Controller communication	USB	USB	/

### 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	WiFi 6 Single Band, 2.4G
Storage	32G eMMC (64G/128G/256G Optional)	Bluetooth	Support Bluetooth 5.2
GPU	ARM Mali-G52 2EE	Operating system	Android 12.0, Linux5.10, Ubuntu/Debian

## Product Size



### Physical Characteristics

Overall dimensions	W576.4x H345.9x D65.5mm
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### Interface Parameters

Industrial terminals	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/CAN*1/GPIO*3)
Power interface	1*DC2.1, 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
Product certification	CCC/CE/FCC/EMC/CB/ROHS
Waterproof grade	The front panel reaches IP65 protection level

### Power Parameters

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