The machine is made of aluminum alloy material, strong structure, fully closed without fan design, efficient heat dissipation, designed for a variety of complex harsh environment.built-in independent NPU, with 1TOPS AI computing capability, and supports lightweight AI application development. With a fanless fully enclosed, and front IP65 dustproof & waterproof design. The whole panel PC has high scalability, practicality, and EMC compatibility.

Features

- Industrial aesthetic design, independent mold opening
- Aluminum alloy - body die casting, efficient heat dissipation
- 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 customization

| RK3568 Quad-core | Fanless cooling | SDK package | IP65 Protection | Expand interface | 7*24H operation |

Product Model

Product Size	21.5"
Non-touch	
Capacitive touch	
Resistive touch	

Product Interface

| GND | Industrial terminals | LED | POWER | Wifi | DC 12-36V | USB/UBOOT | USB | HD | LAN | Audio I/O | TF/SIM | COM |

Product Size

Physical Characteristics

Overall dimensions	W528.2X H319.6X D68.3MM
Size of opening	W518.2 X H309.6MM

Interface Parameters

Industrial terminals	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/CAN*1/GPIO*3)
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 Specifications

Screen Parameters

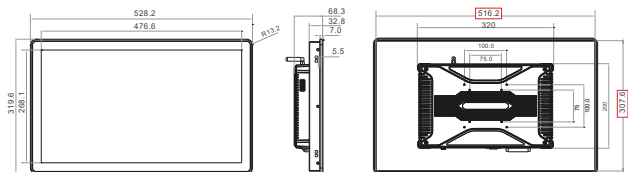| LCD size	21.5" TFT LCD
Resolution	1920*1080(16:9)
Viewing angle	89/89/89/89 (L/R/U/D)
Color	16.7M
Brightness	300 cd/m²
Contrast ratio	1000:1

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	/

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

Power Parameters

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

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	2GB LPDDR4 (Optional 4GB/8GB)	WiFi	WIFI Support
Storage	32GB eMMC (64GB/128GB/256GB Optional)	Bluetooth	Support Bluetooth 5.2
GPU	ARM Mali-G52 MP2	Operating system	Android12/Linux5.10/Ubuntu20.04/Debian11