



Features:

High-precision all-aluminum alloy body with excellent texture, [no wire motherboard design](#)
 Independently developed ARM architecture industrial-grade motherboard, suitable for various complex application environments

RK3568 quad-core 64-bit 2.0GHz high-performance CPU, built-in NPU with 1TOPS AI computing power

Rich interfaces, flexible expansion, easy installation

Powerful open source attributes, breaking through application limitations, supporting secondary development

Application:

The whole machine adopts an all-metal structure and a fanless fully enclosed design. The whole machine has low power consumption and a compact appearance. It is an industrial product specially designed for a variety of environments. It can ensure long-term stable operation in harsh environments. In terms of the materials used in the whole machine, we pay more attention to its reliability, environmental adaptability, real-time performance, scalability, EMC compatibility and other performance. The configuration adopts RK3568 high-performance, low-power Android series products with 22nm advanced process; it has a 4-core 64-bit Cortex-A55 core architecture with a main frequency of up to 2.0GHz; built-in independent NPU with 1TOPS AI computing power, supports lightweight AI application development, and GPU uses ARM Mali-G52 2EE; 4K video codec, 4K display output; equipped with Android14 system, with a variety of high-definition display interfaces, to meet the needs of the site for a variety of application interfaces, provide a variety of work efficiency, widely used in industrial control, military industry, communications, power, network and other high-end automation fields.

Model: SM303

PC	
CPU	RK-3568 quad-core 64-bit Cortex-A55 core architecture, main frequency up to 2.0GHz, Fanless
GPU	ARM Mali-G52 2EE
NPU	1TOPS AI computing power
Memory	2GB LPDDR4 (optional 4GB/8GB, maximum support 8GB)
Storage	32GB EMMC (optional 64GB/128GB/256GB, maximum support 256GB)
WIFI	WIFI 6 built-in 2.4G/5G
Bluetooth	BT5.3
Operating system	Android12/14/Linux5.10/ubuntu20.04/ubuntu22.04/debian11
Decoding resolution	Support up to 4K/60HZ
3G/4G	PCIE standard
Network support	4G, Ethernet, Wi-Fi/Bluetooth, wireless peripheral expansion
I/O	
Power on/off	1* Power on/off button
DC IN	2PIN Phoenix terminal, supports 12-36V wide voltage power supply (optional upgrade DC 2.0*1)
Phoenix connector	12PIN Phoenix terminal (232*1/485*1/CAN*1/NC*4), 232/485 supports interchange, NC*4 supports upgrade of custom interface
USB	2*USB3.0 (1PCS supports OTG), 2*USB2.0 (optional upgrade to Gigabit RJ45) Upgrade to 6* USB2.0 optional

UBOOT	1* UBOOT
HDMI	1* HDMI 2.0 , Max 4K/ 60HZ
Ethernet	1*RJ45 Gigabit Ethernet port (optional RJ45 Gigabit*2)
Audio	1*Audio I/O, support audio input and output, headphone jack: 3.5mm standard interface
Sim card	1*SIM Card Slot, SIM card standard interface supports various formats (depending on 3G/4G module)
TF card	Support TF expansion card (1*TF card slot)
GPS	External GPS (optional)
COM	Standard 1*DB9 232 serial port (232/TTL interchangeable) Upgrade 4*232 optional
Other	3*RS485, 2*TTL optional 1*CAN optional 12 PIN GPIO, 1 PIN AD optional
Other	
Operating temperature	-20℃～70℃
Storage temperature	-30℃~80℃
Relative humidity	95% non-condensing
Motherboard	No wire motherboard design
DC IN	12V-36V DC INPUT
Power supply	12V/2.5A (2PIN Phoenix terminal)
Material	Aluminum alloy
Color	Silver+dark blue
Installation	Supports desktop and rack installation
Net weight	1.0 kg
Dimension	200x138.5x35mm

