

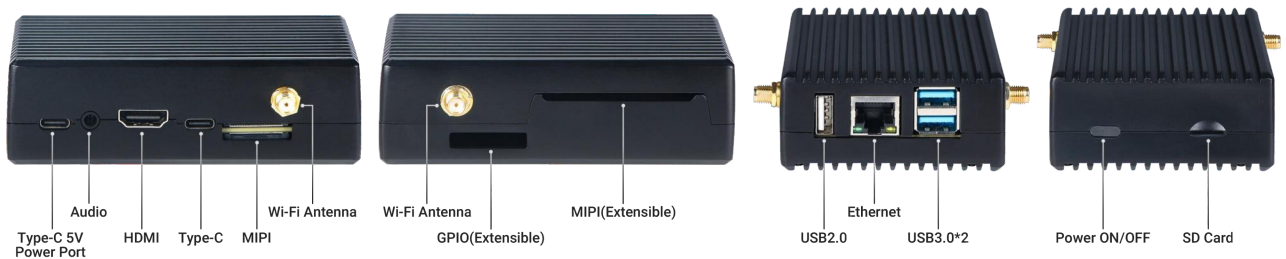


Product Features

- 4-core Cortex-A76 and 4-core Cortex-A55 processors, with a clock speed of up to 2.4GHz
- 6 TOPS high-performance computing, Mali-G610 4-core GPU, supports INT4/INT8/INT16/FP16 computations
- Supports external GPIO expansion
- Widely used in artificial intelligence, AI edge computing, and other fields



Interface Layout



Product Dimension



System	SOC	Mali-G610 MP4
	CPU	RK3588S
	NPU	6 TOPS
	Memory	4GB / 16GB
	Storage & Expansion	eMMC 64GB / 128GB / 256GB
Video	GPU	Mali-G610
	Hardware Codec	JPEG Encoder/Decoder; 8K Video Encoder (H.265/H.264...) 8K 10-bit Video Decoder (H.265/H.264/VP9/AV1...)
	Display Interfaces	1 × HDMI 2.1; supports dual display; 4K resolution output, up to 8K@60Hz; Type-C 1080
Network	Ethernet	Gigabit Ethernet
	Wireless Network	2.4G + 5G Dual-band WiFi + Bluetooth
I/O	USB	2×USB 3.0; 1×USB 2.0
	RS232	Not supported
	Audio	AUX 3.5mm headphone output / microphone input
	SIM	Not supported
Others	Watchdog	Optional
	RTC	Supported
Power Input	Power Input	Type-C DC5V - 3A
	Buttons/Indicators	Supported
Physical Parameters	Chassis Dimensions	106 mm × 71 mm × 32 mm (4.17 in × 2.8 in × 1.26 in)
	Package Dimensions	180mm × 75 mm × 35mm (7.09 in × 2.95 in × 1.38 in)
	Net Weight	0.3 kg (Wi-Fi antenna weight: 0.01 kg, main unit weight: 0.29 kg)0.66 lbs
	Gross Weight	0.65 kg (1.43 lbs)
Software	Operating System	Debian 11, Ubuntu 22.04
Environment	Operating Temperature	-10~40°C (14~104°F)
	Storage Temperature	-10~40°C (14~104°F)
	Operating/Storage Humidity	0~85% RH (non-condensing)
	Safety Certifications	CCC, CE, ISO

Product Model	SOC	Memory	Flash	LAN	RS485	RS232	HDMI	WiFi	TF	SIM
RK3588S	RK3588S	4GB	64GB eMMC (Customizable)	1	0	0	1	1	0	0
RK3588S	RK3588S	16GB	256GB eMMC	1	0	0	1	1	0	0

■ Packing List

Accessories	Description
Power Adapter	USB-C 5V-3A
WiFi Antenna	SMA*2
VESA Mount Kit	None
User Manual	Update the user manual version
Certificate of Compliance	Universal *1

■ Optional Accessories

Accessories	Description
128GB eMMC	Customizable
256GB eMMC	Customizable
512GB eMMC	Customizable