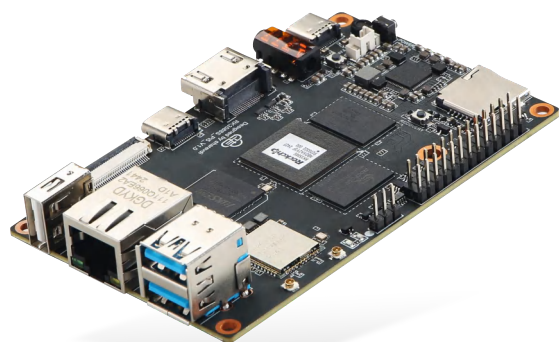


RK3588S

Motherboard

RK3588S

AI Edge Gateway



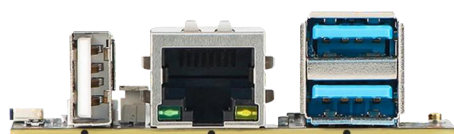
Product Features

- 4-core Cortex-A76 and 4-core Cortex-A55 processors, with a maximum frequency of 2.4GHz
- 6 TOPS Mali-G610 Quad-core GPU, supporting INT4/INT8/INT16/FP16 operations
- Supports external GPIO expansion
- Widely used in Artificial Intelligence (AI) and AI Edge Computing



docker

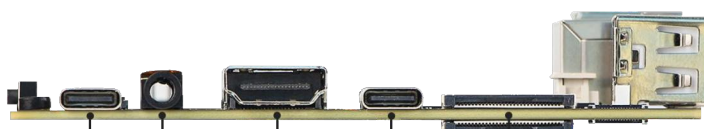
Interface Layout



USB2.0

Ethernet

USB3.0*2



Audio

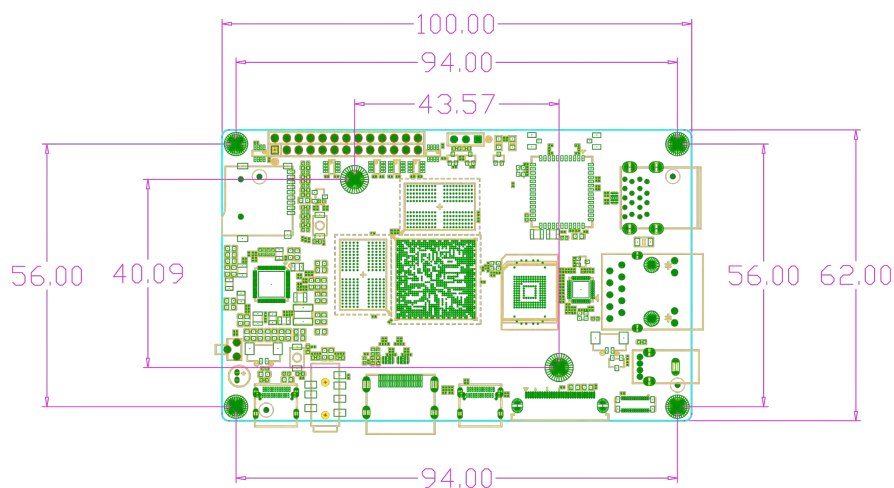
HDMI

Type-C 5V Power Port

Type-C

MIPI

Product Dimension



System	SOC	Mali-G610 MP4
	CPU	RK3588S
	NPU	6 TOPS
	Memory	8GB / 16GB
	Storage & Expansion	eMMC 64GB / 128GB / 256GB
Video	GPU	Mali-G610
	Hardware Codec	JPEG Codec
		8K Video Encoder (Supports H.265, H.264, etc.) 8K 10-bit Video Decoder (Supports H.265, H.264, VP9, AV1, etc.)
	Display Interfaces	1 × HDMI 2.1 Supports multiple displays, Supports 4K resolution output Maximum support for 8K@60Hz Type-C 1080P
Network	Ethernet	Gigabit Ethernet
	Wireless Network	Dual-band Wi-Fi (2.4G + 5G) + Bluetooth module
I/O	USB	USB 2.0 ×1, USB 3.0 ×2
	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 DC 5V - 3A
	Buttons/Indicators	Supported
Physical Parameters	Board Dimensions	100mm × 62 mm (3.94 in × 2.44 in)
	Package Dimensions	180mm × 75 mm × 35mm (7.09 in × 2.95 in × 1.38 in)
	Net Weight	0.05 kg (0.11 lbs)
	Gross Weight	0.4 kg (0.88 lbs)
Software	Operating System	Android 12, 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	8GB	64GB eMMC	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	None
Certificate of Compliance	None

■ Optional Accessories

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