



docker

Product Features

- Quad-core 64-bit Cortex-A55 processor with a maximum main frequency of 1.8GHz
- Integrated Mali-G52 GPU, built-in dedicated NPU with 0.8 TOPS computing power
- Comes with an external SD card slot to support local caching of massive collected data.
- Power terminal supports wide DC input of 9~36V
- 6-channel RS485 and 8-channel DI/DO with built-in optocoupler isolation
- It is applicable to data acquisition of factory production lines, monitoring of photovoltaic and energy storage equipment, smart building automation and charging pile data collection.

Interface Layout



Lan USB2.0
USB3.0 Lan Type-C



Power
ON/OFF

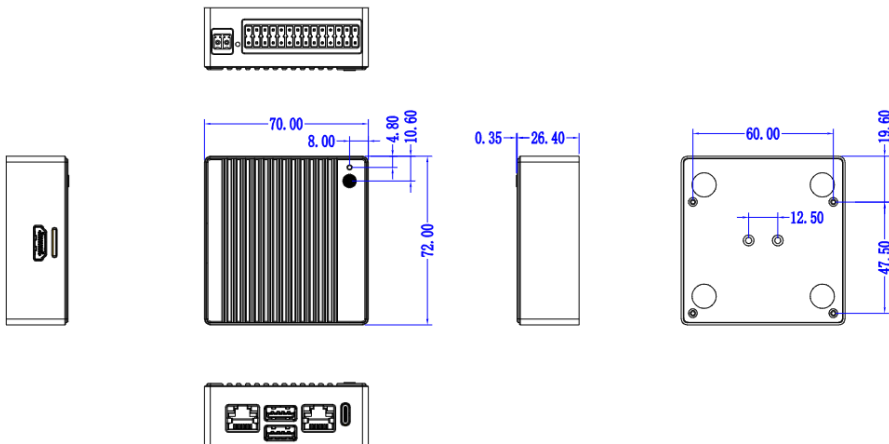
RS485-1	RS485-2	RS485-3	GND	DI④	DI③	DI②	DI①
RS485-4	RS485-5	RS485-6	GND	DO④	DO③	DO②	DO①

Flash Power Input
9V-36V



HDMI SD Card

Product Dimension



System	Model	G4C-RK3566
	CPU	RK3566
	NPU	0.8 TOPS
	Memory	2GB
	Storage & Expansion	16GB eMMC ; Built in TF card slot, supports storage expansion
Video	GPU	ARM G52 2EE
	Hardware Codec	Supports 4K 60fps H.265/H.264/VP9 video decoding Supports 1080P 60fps H.265/H.264 video encoding Supports 8M ISP, HDR support
	Display Interfaces	1 × HDMI 2.0, supports 4K@60fps output; Maximum HDMI resolution: 4096×2304@60Hz
Network	Ethernet	Gigabit Ethernet x 2 (RJ45, 1000Mbps)
	Wireless Network	None
I/O	USB	1 × USB 2.0, 1 × USB 3.0, 1 x TYPEC-C
	RS485	6 × RS485 (Optocoupler Isolation)
	GPIO	4 × DI; 4 × DO; (Optocoupler Isolation)
	Flash	1 x Flash
Others	Watchdog	Optional
	RTC	Supported
Power Input	Power Input	12V-1.0A power terminal; (supports 9V~36V wide voltage input)
	Buttons/Indicators	Supported
Physical Parameters	Chassis Dimensions	72 mm × 70 mm × 26.4mm (2.83 in × 2.76 in × 1.04 in)
	Package Dimensions	130 mm × 160 mm × 55mm (5.12 in × 6.30 in × 2.17 in)
	Net Weight	0.16 kg (0.35 lbs)
	Gross Weight	0.6 kg (1.32 lbs)
Software	Operating System	Debian 12 ; OPENWRT
Environment	Operating Temperature	-40~50°C
	Storage Temperature	-40~50°C
	Operating/Storage Humidity	0~85% RH (non-condensing)
	Safety Certifications	CCC, CE, ISO

Product Model	SOC	Memory	Flash	LAN	RS485	RS232	HDMI	GPIO	TF	SIM
G4C-RK3566	RK3566	2GB	16GB (Customizable)	2	6	0	1	8PIN	1	0

■ Packing List

Accessories	Description
Power Adapter	12V-1.0A
WiFi Antenna	None (Internal antenna optional)
VESA Mount Kit	Optional mount bracket *1
User Manual	Universal *1
Certificate of Compliance	Universal *1

■ Optional Accessories

Accessories	Description