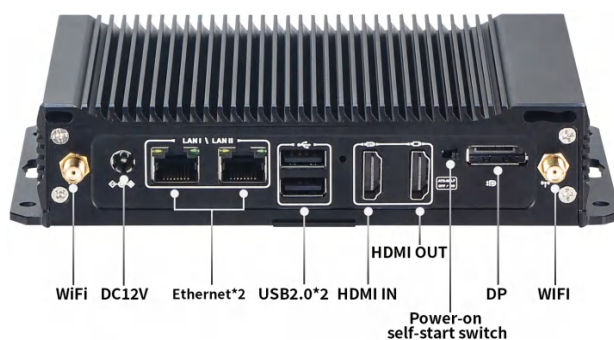
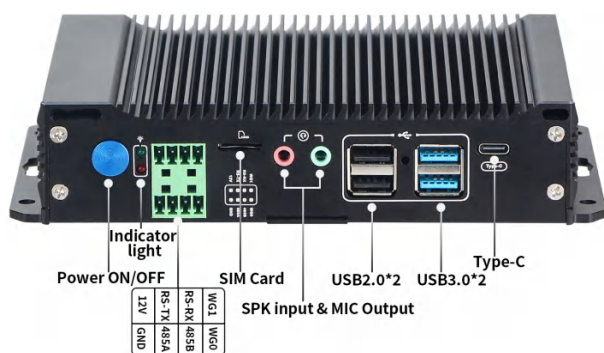




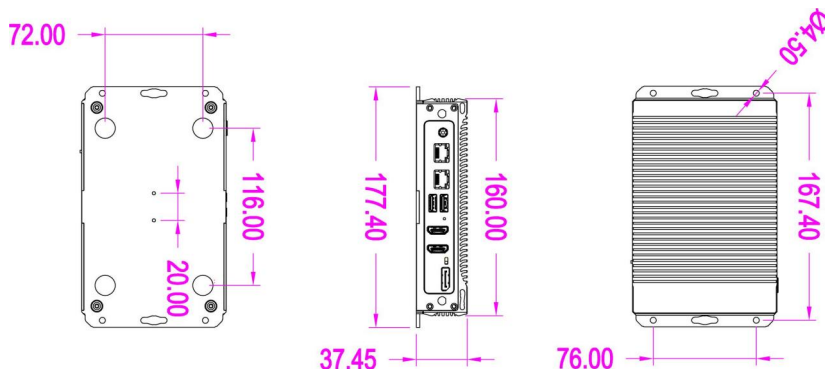
Product Features

- Built on advanced 8nm process with 64-bit octa-core architecture for high performance and low power consumption
- Integrated ARM Mali-G52 MC3 GPU with built-in 2D graphics acceleration engine
- Embedded 6 TOPS NPU
- Supports 8K video encoding and decoding, with HDMI IN for image input
- Equipped with multiple display interfaces, enabling multi-screen independent output
- Integrated 48MP ISP for advanced image processing
- Supports high-speed expansion interfaces including PCIe, Type-C, and Gigabit Ethernet
- Compatible with Android and Linux operating systems

Interface Layout



Product Dimension



System	SOC	4×A72 + 4×A53
	CPU	RK 3576
	NPU	6 TOPS AI performance
	Memory	8 GB
	Storage & Expansion	64 GB eMMC storage; M.2 2280 NVMe SSD slot
Video	GPU	ARM Mali-G52 MC3, supports OpenGL ES 1.1 / 2.0 / 3.2, Vulkan 1.1, OpenCL 2.0 Full Profile; Integrated 2D Graphics Engine (RGA)
	Hardware Codec	JPEG encoder/decoder; 8K video encoding (H.265/H.264); 8K 10-bit decoding (H.265/H.264/VP9/AV1)
	Display Interfaces	HDMI IN ×1, HDMI OUT ×1, DP ×1
Network	Ethernet	2 × RJ45 ports, 10/100/1000 Mbps
	Wireless Network	Dual-band WiFi (2.4G + 5G), Bluetooth supported
I/O	USB	2 × USB 3.0, 4 × USB 2.0
	IO	1 × RS232, 1 × RS485, 1 × Wiegand port
	Audio	1 × 3.5mm headphone out, 1 × 3.5mm microphone in
	SIM	1 × SIM card slot, supports internal 4G / 5G module
Others	Watchdog	Customizable support
	RTC	Supported
Power Input	Power Input	DC 12V / 3 A
	Buttons/Indicators	Red/Green LED
Physical Parameters	Chassis Dimensions	178mm × 105mm × 38mm (7.01 in × 4.13 in × 1.50 in)
	Package Dimensions	213mm × 210mm × 50mm (8.39 in × 8.27 in × 1.97 in)
	Net Weight	0.68 kg (1.50 lbs)
	Gross Weight	1.3 kg (2.87 lbs)
Software	Operating System	Ubuntu22.04 , Debian11
Environment	Operating Temperature	-40°C ~ 60°C
	Storage Temperature	-40°C ~ 85°C
	Operating/Storage Humidity	0~85% RH (non-condensing)
	Safety Certifications	CCC, CE, ISO

Product Model	CPU	Memory	Flash	LAN	RS485	RS232	HDMI	WiFi	TF	SIM
G7	RK3576	8 GB	64 GB (customizable)	2	1	1	2	1	0	1

■ Packing List

Accessories	Description
Power Adapter	DC 12V / 3 A
WiFi Antenna	SMA ×1
VESA Mount Kit	Bracket ×1, Screw Pack ×1, Foot Pads ×4
User Manual	Universal ×1
Certificate of Compliance	Universal ×1

■ Optional Accessories

Accessories	Description
4G Module Kit	Quectel EC25-EC series module with antenna