

G7-F1 RK3576S

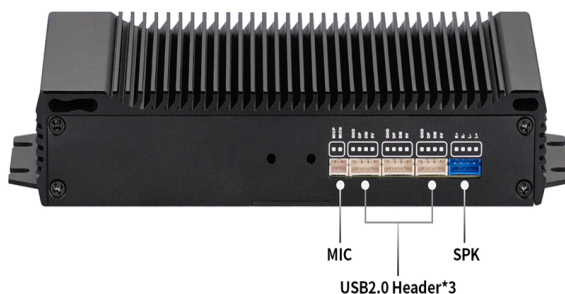
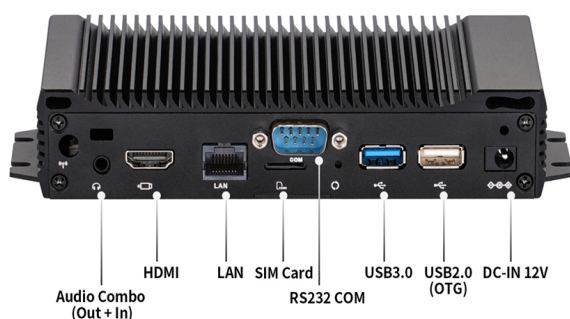
G7-F1-RK3576S
AI Digital Signage



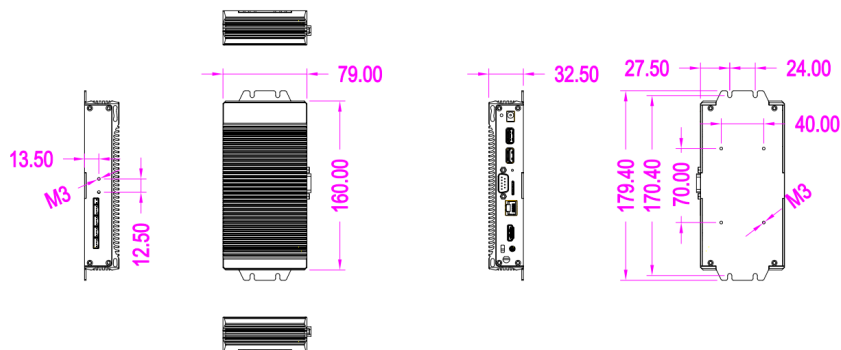
Product Features

- 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 3 TOPS NPU
- Supports 4K@60fps video decoding
- Built-in multiple display interfaces, supports multi-display different-content output
- Supports portrait-landscape playback, video split-screen, scrolling subtitles, and scheduled power on/off
- Supports multiple operating systems including Android 14 and Debian 12

Interface Layout



Product Dimension



System	SOC	4×A72 + 4×A53
	CPU	RK 3576S
	NPU	3 TOPS AI performance
	Memory	4 GB
	Storage & Expansion	64 GB eMMC storage;
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; 4K@30fps encoding for H.264/H.265; 4K@60fps decoding for H.265/H.264/AV1/VP9/AVS2
	Display Interfaces	HDMI IN ×1, (On-board LVDS and EDP pin headers)
Network	Ethernet	1 × RJ45 ports, 10/100/1000 Mbps
	Wireless Network	Wi-Fi + Bluetooth module (Yftech 20800D8-04)
I/O	USB	USB3.0×1 , USB2.0(OTG) ×1, USB2.0 Receptacles ×3
	IO	1 × RS232, TTL (On-board) x3
	Audio	Audio Combo(Out +In), MIC x 1, SPK x 1
	TF Card	1 × T F card slot, (Max. support 128 GB)
Others	Watchdog	Customizable support
	RTC	Supported
Power Input	Power Input	DC 12V / 2A
	Buttons/Indicators	Red/Green LED
Physical Parameters	Chassis Dimensions	179.4mm × 79mm × 32.5mm
	Package Dimensions	213mm × 210mm × 50mm
	Net Weight	0.47kg
	Gross Weight	0.95kg
Software	Operating System	Android 14.0 / Debian 12
Environment	Operating Temperature	-20°C ~ 70°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-F1-RK3576S	RK3576S	4 GB	64 GB (customizable)	1	0	1	1	1	1	0

■ Packing List

Accessories	Description
Power Adapter	DC 12V / 2 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