



EC-A3399C(AI)

| AI Embedded Computer



V1.2 2024-4-11

T-CHIP INTELLIGENCE TECHNOLOGY

Product features



Six-core 64-bit High-performance Processor

Adopts RK3399 six-core 64-bit (A72x2+A53x4) high-performance processor, frequency up to 1.8GHz, integrated quad-core ARM high-end GPU Mali-T860. Provide a variety of storage configuration options, users only need to expand the function backplane to quickly achieve project development.



Powerful hardware encoding and decoding capabilities

Support 4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps
1080P Multi-format video decoding (VC-1, MPEG-1/2/4, VP8)
1080P video encoding, support H.264 and VP8 formats
Video post processor: deinterlacing, denoising, edge/detail/color optimization



Rich External Interfaces

HDMI2.0, LAN, Type-C, USB3.0, USB2.0, RS485, RS232 and other interfaces owned to make it possible to be widely applied in various industries.

Product features



Supports multiple operating systems

Support Android, Linux+QT, Ubuntu system, the system is safe and stable, to meet different needs.



Configuring Metal Case

High-quality metal case and fanless design configured, heat-conducting aluminum alloy structure, high-efficiency cooling, 60°C high-temperature aging, stable operation for 7x24 hours, various installation ways contributing to its embedding into various smart devices more convenient.



Wide range of application scenarios

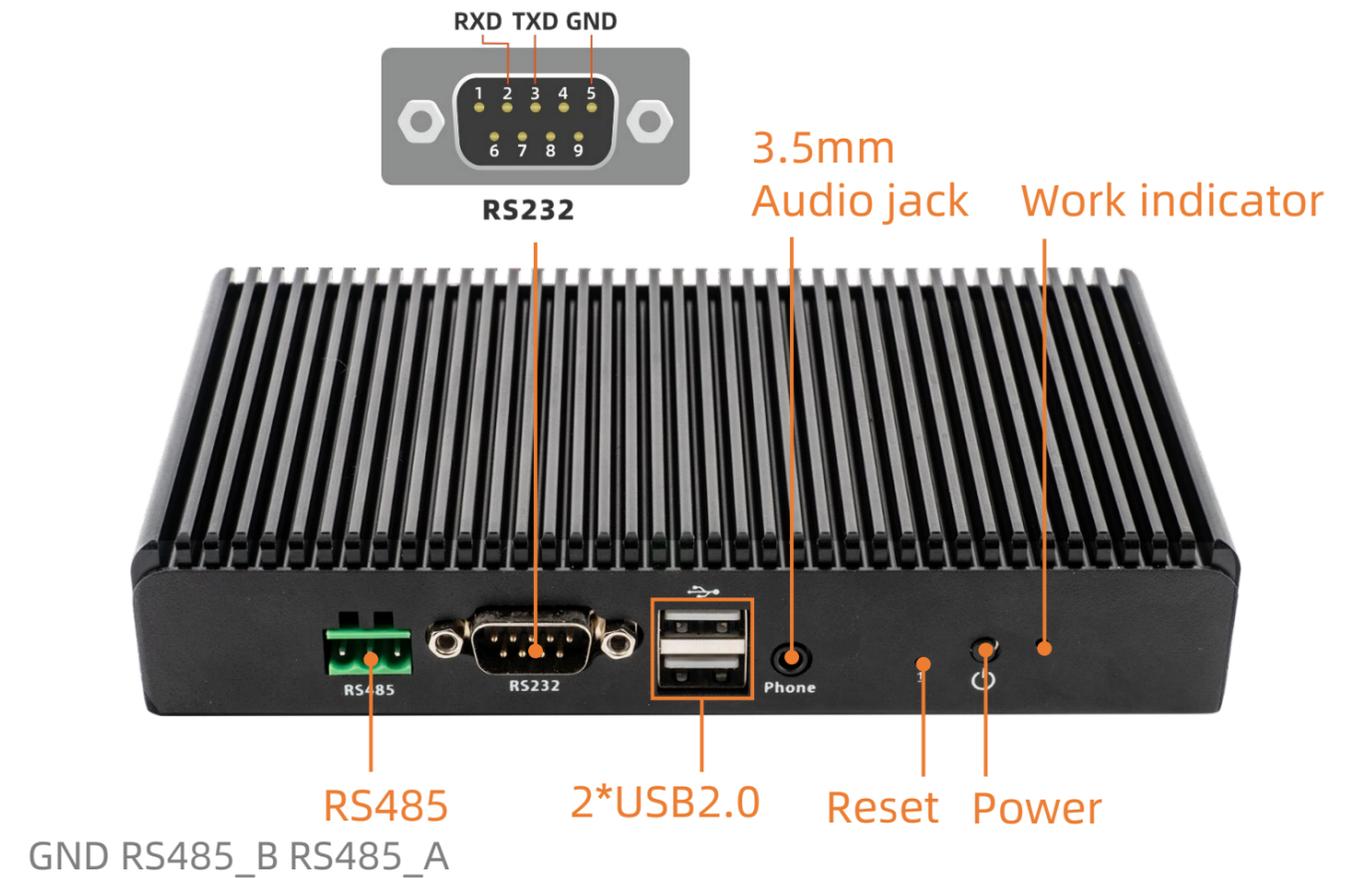
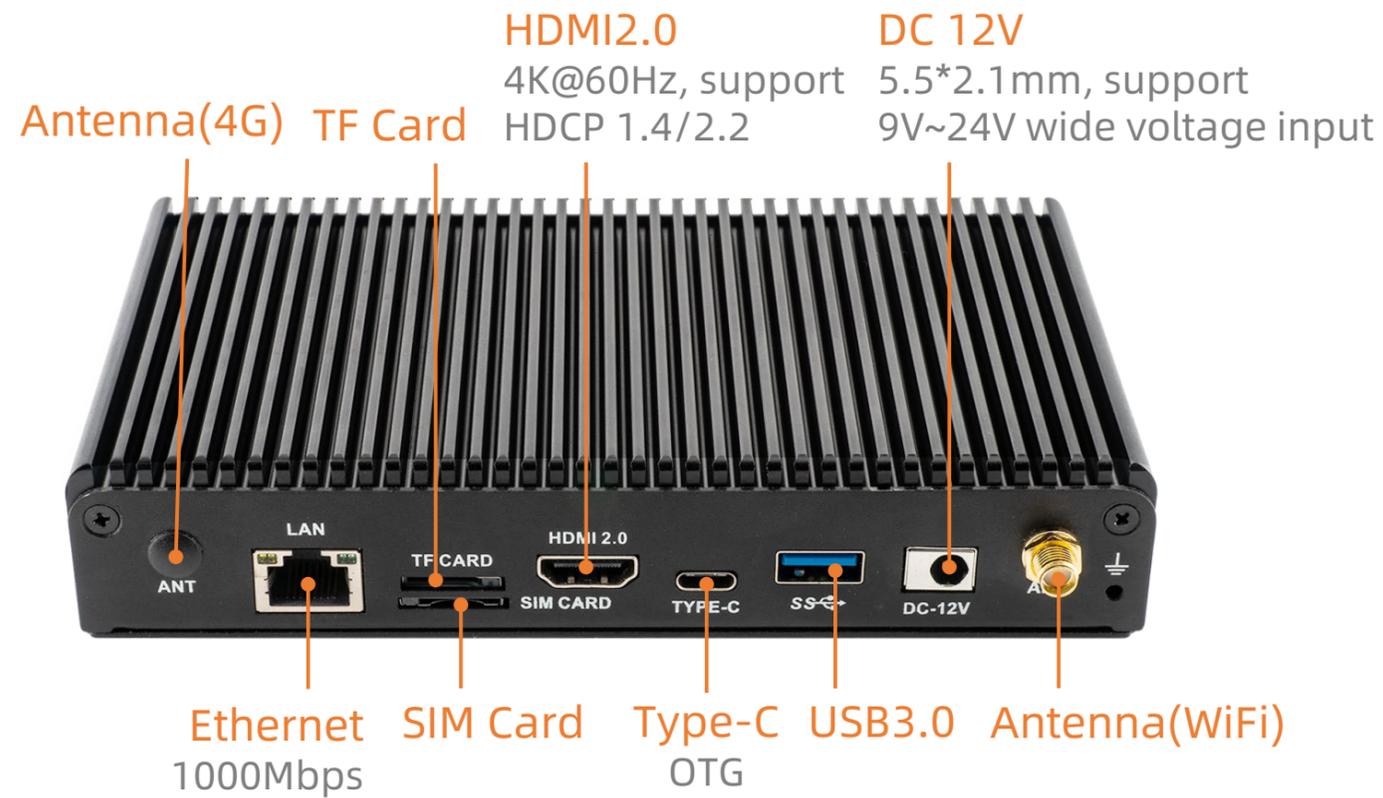
It is suitable for cluster servers, high-performance computing/storage, computer vision, gaming equipment, commercial display equipment, medical equipment, vending machines, industrial computers, etc.

Specifications

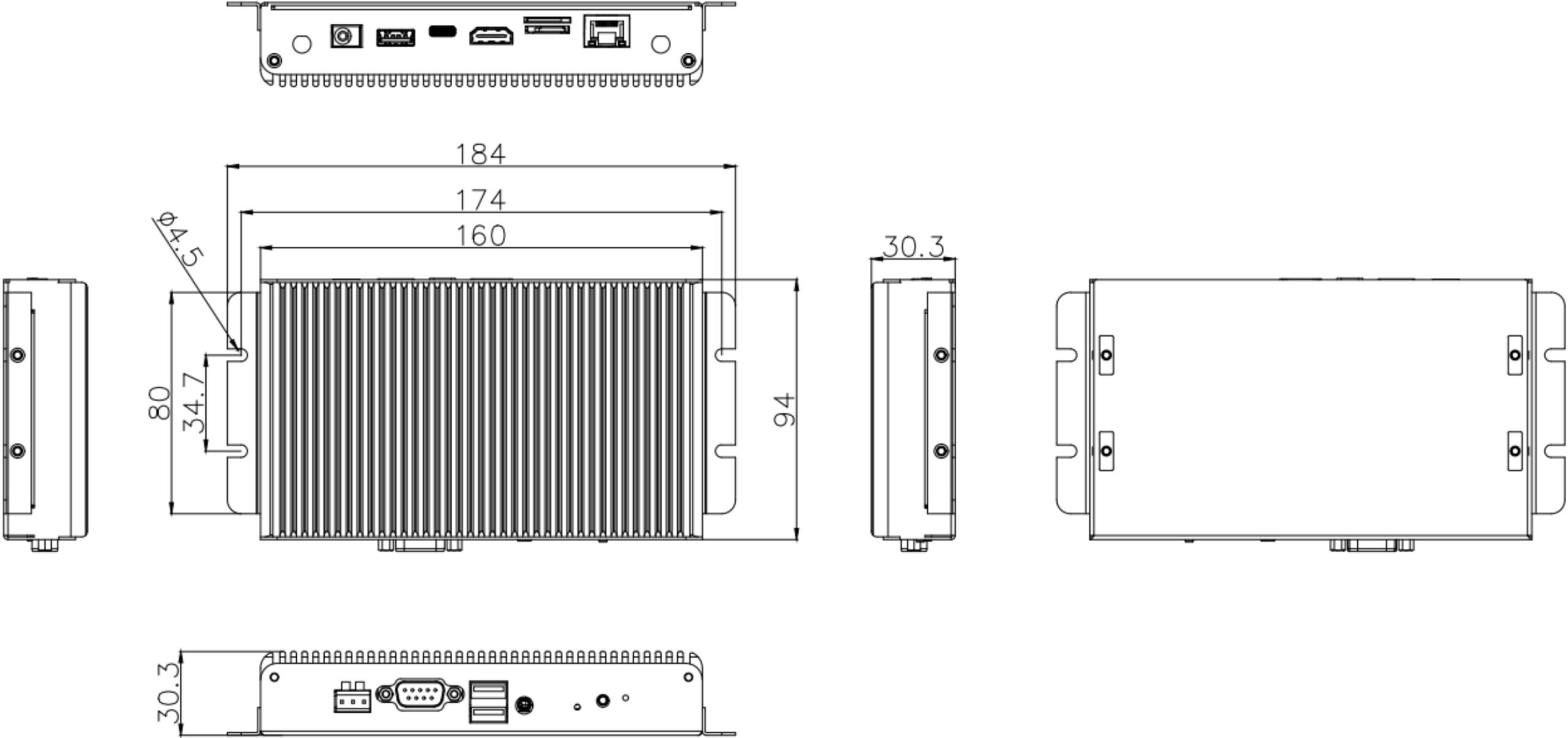


Specifications		
Basic Specifications	SOC	ROCKCHIP RK3399 (28nm HKMG Process)
	CPU	Six-Core ARM 64-bit processor, up to 1.8GHz Based on Big.Little architecture, Dual-Core Cortex-A72 and Quad-Core Cortex-A53 with separate NEON coprocessor
	GPU	ARM® Mali-T860 MP4 Quad-core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 Support for AFBC (Frame Buffer Compression)
	Encoding/Decoding	Support 4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps 1080P Multi-format video decoding (VC-1, MPEG-1/2/4, VP8) 1080P video encoding, support H.264 and VP8 formats Video post processor: deinterlacing, denoising, edge/detail/color optimization
	RAM	2GB/4GB dual-channel LPDDR4
	Storage	16GB high-speed eMMC 5.1 (16GB/32GB/64GB/128GB/256GB optional)
	Expand storage	1*TF Card
	Power	DC 12V 2A (DC 5.5 * 2.1mm, support 9V~24V wide voltage input)
	OS	Android, Linux+QT, Ubuntu
	Size	160mm * 94mm * 30.3 mm
	Power consumption	Min: 3W, Normal: 12W, Max: 48W
	Environment	Operating Temperature: -20°C ~ 60°C, Storage Temperature: -40°C ~ 125°C, Storage Humidity: -40% ~ 70%RH (non-condensing)
Interface Specifications	Ethernet	1*1000Mbps Ethernet (RJ45 interface)
	WiFi	2.4GHz/5GHz dual-band WiFi, 802.11a/b/g/n/ac, Bluetooth 4.1 (support BLE), 3G/4G LTE can be expanded through the Mini PCIe dock (inside the host), and can be used with the Micro SIM card slot
	Video output	HDMI 2.0, 4K@60Hz, support HDCP 1.4/2.2
	Audio output	3.5mm audio interface output
	USB	1*Type-C(OTG), 1*USB3.0, 2*USB2.0
	Extended interfaces	1*RS232, 1*RS485

Interface description



Dimension





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