



EC-R3399PC

■ Six-Core 64Bit Embedded Computer

V1.1 2024-8-30

T-CHIP INTELLIGENCE TECHNOLOGY



Product features



RK3399 Hexa-Core 64-bit processor

It uses server-grade Dual-core Cortex-A72+Quad-core Cortex-A53 big.LITTLE architecture, with frequency up to 1.8GHz.



Integrated VPU/GPU processor

Integrated with Mali-T860 quad-core GPU, it supports OpenGL ES1.1/2.0/3.0/3.1, and with built-in VPU, it supports 4K 10bits H.265/H.264 video decoding.



Powerful network communication

Supporting Gigabit Ethernet, 2.4GHz/5GHz dual-band WiFi (802.11 a/b/g/n/ac protocol), and Bluetooth 5.0, it delivers fast and smooth data transmission so that it is suitable for a variety of application scenarios.



SSD Hard disk for massive capacity

2242 NVMe SSD can be expanded through M.2 PCIe2.1 interface, with large storage capacity and fast read and write speed.

Product features



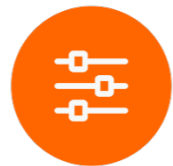
Supports various operating systems

The PC can run Android, Ubuntu, Debian9, Linux+QT and other operating systems stably, and it also supports xserver and wayland display servers. With on-board SPI flash, it supports TF card, EMMC, SSD and U disk boot, making system boot more convenient and fast.



All-aluminum alloy enclosure for passive heat dissipation

The industrial-grade all-metal enclosure with aluminum alloy structure for thermal conduction. The side of the top cover features a grille design for external airflow and efficient passive heat dissipation.



A variety of interfaces

HDMI2.0, Gigabit Ethernet (RJ45), USB3.0, USB2.0, USB-C multi-function interface (USB3.0 OTG, DP1.2), 3.5mm Audio jack and other expansion interfaces are configured, to meet the needs of different scenarios.



A wide range of applications

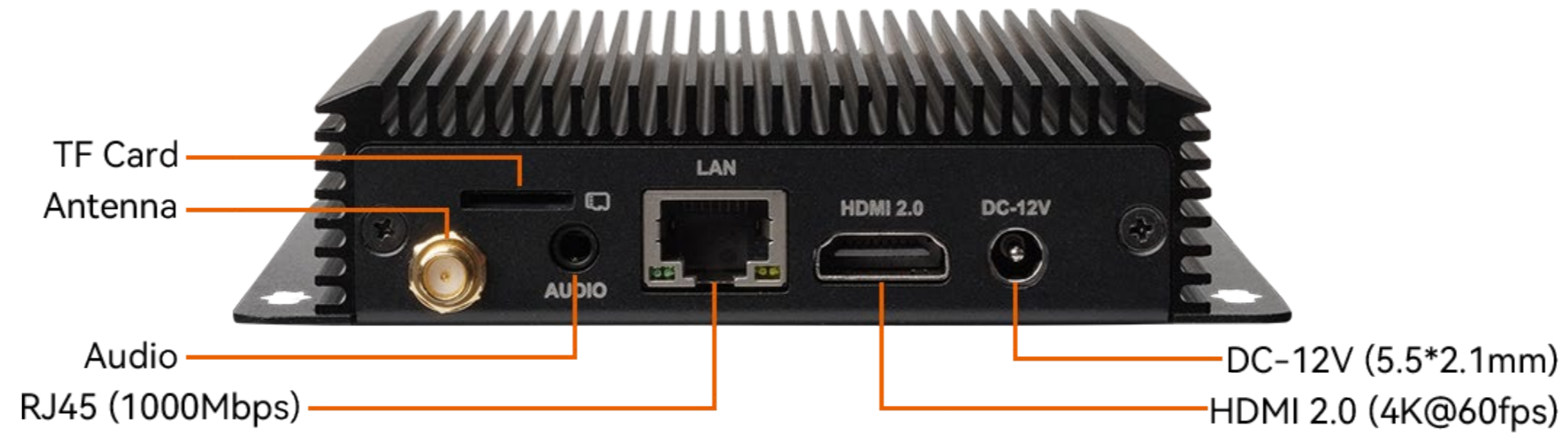
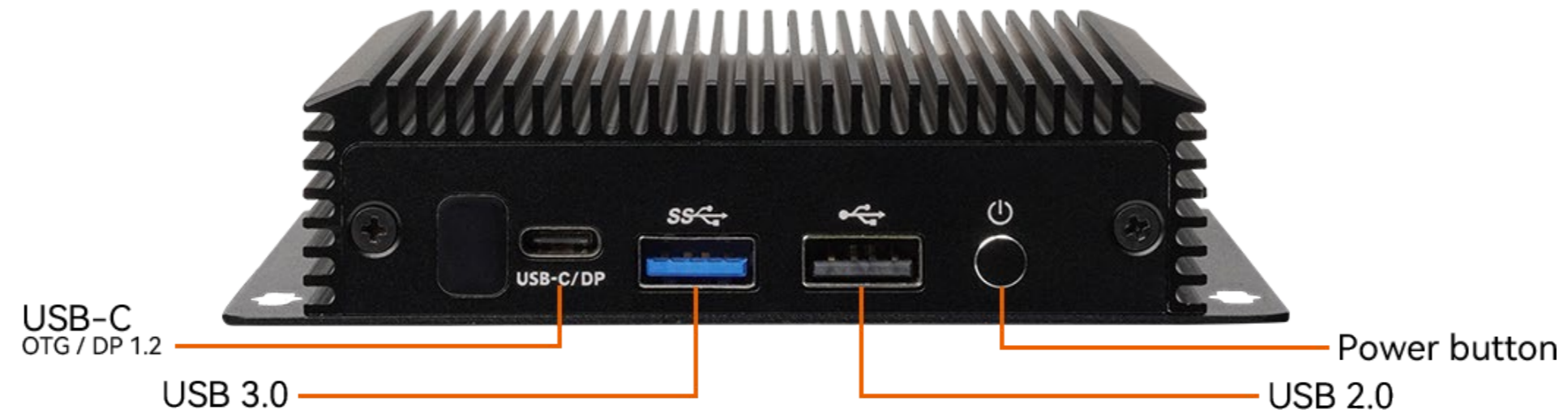
This PC can be widely used in cloud terminal, smart gateway, vehicle center console, industrial control, edge computing, face recognition PC, NAS, smart NVR, etc.

Specifications

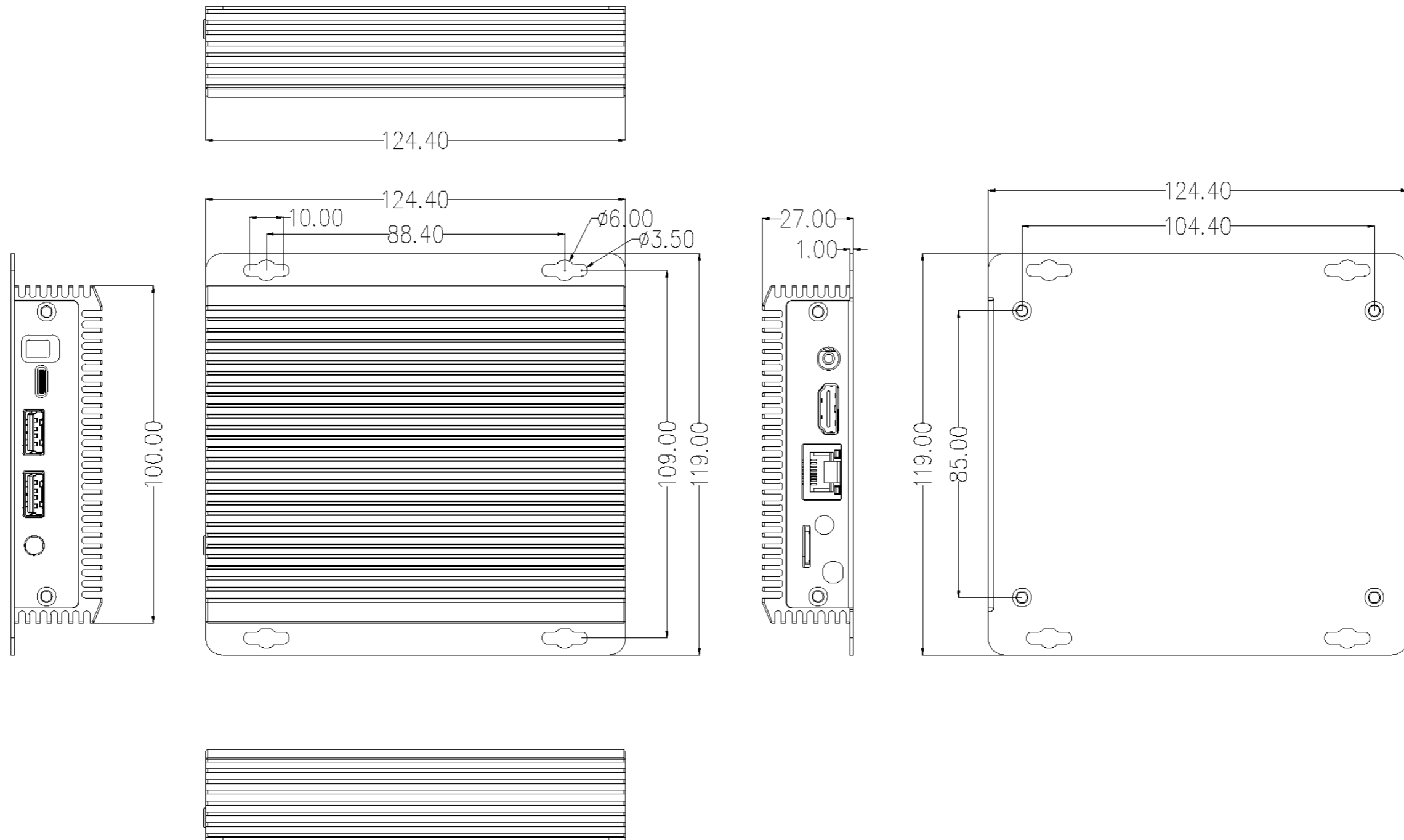


Specifications		
Basic Specifications	SOC	Rockchip RK3399
	CPU	Six-core 64-bit processor (2xCortex-A72 + 4xCortex-A53), frequency up to 1.8GHz
	GPU	Mali-T860 MP4 quad-core GPU, support OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11
	Encoding/Decoding	Video Decoding: 4K@60fps: VP9/H.265/H.264, 1080P@60fps: VC-1, MPEG-1/2/4, VP8 Video Encoding: 1080P@30fps H.264, 1080P@30fps VP8 Video post-processing: IVTC, denoising, edge/detail/color optimization
	RAM	LPDDR4 (2GB/4GB optional)
	Storage	eMMC (16GB/32GB/64GB/128GB optional) 16MB SPI Flash (16MB~512MB optional)
	Storage Expansion	1 × PCIe2.1 (2Lanes, Scalable 2242 NVMe SSD) (Inside the computer), 1 × TF Card Slot
	Power	DC 12V (5.5mm × 2.1mm, support 9V~24V wide voltage input)
	Power consumption	Max: 9.6W(12V/800mA), Normal: 3.6W(12V/300mA), Min: 0.12W(12V/10mA)
	OS	Support Android10.0, Ubuntu20.04, Station OS, Debian9, Linux+QT, etc. Support TF card, EMMC, SSD and USB flash drive boot up
	Size	119.0mm × 124.4mm × 27.0mm
	Weight	≈0.52kg
	Environment	Operating Temperature: -20°C ~ 60°C, Storage temperature: -20°C ~ 70°C, Operating Humidity: 10% ~ 90%RH(non-condensing)
Interface Specifications	Internet	1 × Gigabit Ethernet (RJ45), supports 2.4GHz/5GHz dual-band WiFi (supports 802.11 a/b/g/n/ac protocols), Bluetooth 5.0 (supports BLE)
	Video output	1 × HDMI2.0 (4K@60fps) 1 × DP1.2 (4K@60fps, output via USB-C port) Support dual display: 1 × USB-C (2K Output) + 1 × HDMI (4K Output)
	Audio	1 × 3.5mm Audio jack (support MIC microphone input) 1 × HDMI 2.0 audio output 1 × DP1.2 audio output (via USB-C port)
	USB	1 × USB3.0 (Max: 1A), 1 × USB2.0(Max: 500mA), 1 × USB-C multi-function interface (USB3.0 OTG data transmission and DP1.2 video output)
	IR	Support infrared remote control
	Button	1 × Power button, 1 × Recovery button (at the end of the headphone jack)

Interface description



Dimension





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