

Six-Core 64-Bit High-Performance Mainboard

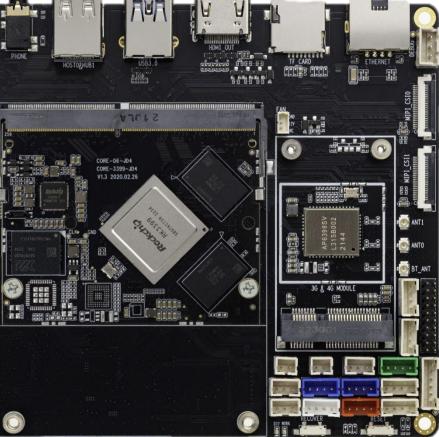
AIO-3399-JD4(Commercial)

AIO-3399K-JD4(Industrial)

V1.3 2023-11-25

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 s torage configuration options, users only need to expand the function backplane to quic kly achieve project development.



Powerful Hardware Decoding Capability

Supports dual LVDS, EDP, HDMI, DP1.2 multiple display output interfaces, dual-screen i dentical display/dual-screen differential display, supports 4K VP9, 4K 10bits H265/H264, 1080P (VC-1, MPEG-1/2/4, VP8) multi-format video decoding, and 1080P (H.264, VP8) vi deo coding.



Support For Multiple OS

Supports Android, Linux+QT, Ubuntu multiple operating system, the performance is sta ble and reliable.



Rich Extension Interfaces

With rich interfaces such as I2C, SPI, UART, ADC, PWM, GPIO, PCIe, USB3.0, I2S (supports 8-way digital microphone array input), and so on.



Product features





Accelerate image recognition with dual ISP

Dual ISP, capable of processing at a maximum of 13 MPix/s for a single input or dual 8 MPix/s, supports simultaneous input from two cameras. It enables advanced functions such as panoramic capture, gesture detection, depth sensing, and 3D processing, accel erating image recognition.



Open Source

Complete with SDK, tutorial, technical information and development tools can be down loaded on the website , making development and learning easier.



Commercial and industrial grades

Core boards in commercial and industrial grades are available to meet diverse needs a cross various scenarios. The industrial-grade products operate within a wide temperatu re range of -20°C to 70°C for uninterrupted 24/7 stability, meeting industrial needs.



Application

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



Specifications

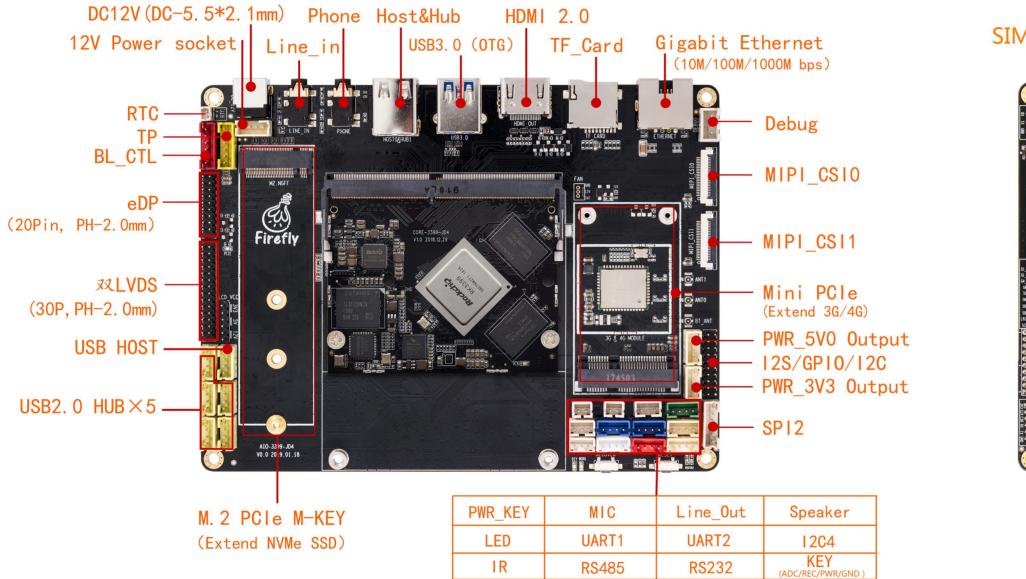
		AIO-3399-JD4(Commercial)		
Basic Specifications	CPU	RK3399 Hexa-core 64-bit (Cortex-A72×2 + Cortex-A53×4) processor, up to 1.8G Hz	RK3399K Hexa-core 64-bit (
	GPU	Mali-T860 MP4 quad-core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 Support AFBC (Frame Buffer Compression)		
	VPU	Hardware decoding: 4K@60fps H265/H264/VP9 decoding, multi-format decoding of 1080P Hardware encoding: 1080P H.264/AVC/VP8 encoding Video post-processing: deinterlacing, noise reduction, edge/detail/color optimization.		
	RAM	LPDDR4 (2GB/4GB optional)		
	Storage	16GB high-speed eMMC 5.1 (16GB/32GB/128GB) Support TF Card Extended Storage Support M.2 PCIe M-KEY extend NVMe SSD		
	Power	DC input voltage 12V		
	OS	Android, Linux+QT, Ubuntu		
	Size	157.5 mm * 118 mm * 15.3 mm		
	Environment	Operating temperature: -20°C ~ 60°C Operating humidity: 10% ~ 90%RH (non-condensing)	Operating temper Operating humidi	
Interface Specifications	WiFi	2.4GHz/5GHz (Support 802.11a/b/g/n/ac) Support BT4.1		
	Ethernet	10 / 100 / 1000 MbpsEthernet interface (RJ45)		
	Display	1 x HDMI 2.0, support 4K@60HZ output and HDCP 1.4/2.2 1 x MIPI-DSI , support single channel 1080P@60fps output 1 x eDP 1.3 (4 lanes with 10.8Gbps) Support dual-screen identical display/dual-screen differential display		
	Audio	1 x HDMI 2.0 audio output,1 x Line_Out,1 x I2S for audio output and input,1 x Speaker (4 Ω ,		
	USB	2x MIPI-CSI camera interface (built-in dual-ISP, Maximum support single 13Mpixel or dual 8Mpixel)		
	Camera	2x MIPI-CSI camera interface (built-in dual-ISP, Maximum support single 13Mpixel or dual 8Mpixel)		
	Interface	SPI×1, UART×2, Debug×1, RS485×1, RS232×1, ADC×1, I2C, PWM, GPIO, PCIe		



AIO-3399K-JD4(Industrial)
: (Cortex-A72×2 + Cortex-A53×4) processor, up to 2.0GHz
P videos (VC-1, MPEG-1/2/4, VP8)
erature: -20°C ~ 70°C dity: 10% ~ 90%RH (non-condensing)

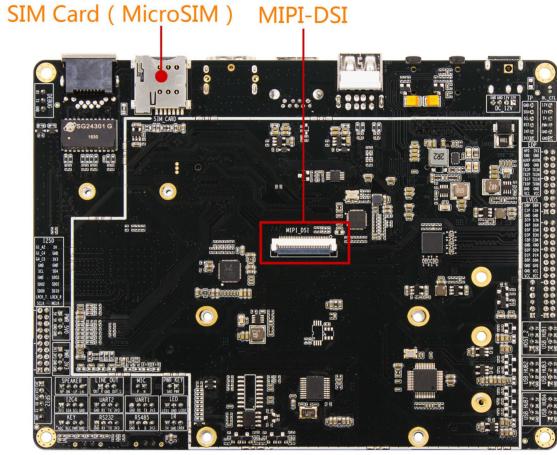
 4Ω , 3W), 1 x Phone, 1 x Mic, 1 x Line_in Audio input

Interface description



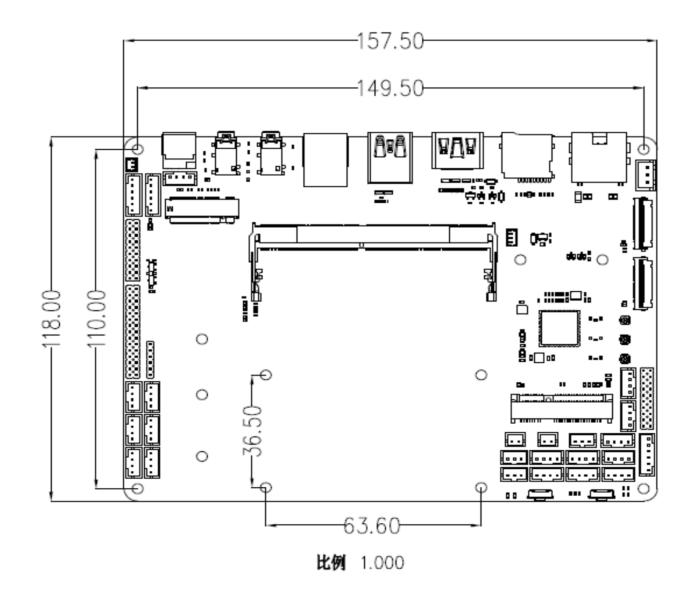






Dimension





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