A-RK3399



1*upgrade button

Features:

- Six-core (dual-core A72+quad-core A53) 64-bit CPU
- Support Google Android 7.1 operating system GPU using the latest quad-core Mali-T860
- Able to play various formats of ultra-high-definition 4K2K video
- Using 8-layer high-density PCB board, integrated Gigabit Ethernet, 2.4G/5G dualband WiFi/Bluetooth, RS485, built-in 4G module interface and other functions
- Ultra-thin motherboard design

Specifications:

Hardware Specifications					
PCBA	4GB LPDDR3+16GB	Ram	RAM LPDDR3X2, 32GB or 4GB		
	EMMC+HD+LVD5+WIFI+BT+GP5+RJ45+USB+	Storage	EMMC8GB/16GB/32GB/64GB optional		
	TF+SIM+DC,		(default 16GB)		
	8-layer HDI board immersion gold board,		1* SATA port, support 5V power supply;		
	146mm*105mm, height 13mm, black		(optional, reserved position)		
CPU	Rockchip RK3399 (28nm HKMG process)	Touch Screen	Support USB multi-point infrared touch,		
	ARM six-core 64-bit processor, clocked at		multi-point capacitive touch, resistive touch		
	2.0GHz	Camera	1*MIPI camera function, support		
	Based on big. LITTLE size core architecture,		500W/1300W pixels (optional)		
	Dual-core Cortex-A72 (large core) + quad-core		Support 800W-USB interface camera		
	Cor tex-A53 (small core)		(optional)		
	Quad-core ARMMAli-T860, support	RTC	built-in real-time clock power supply battery,		
	OpenGLES1.1/2.0/3.0		Supports timing switch machine		
	GPU: OpenVG1. 1. OpenCL. Directx11	LED	1*power status ED (red),		
Display	Image rotation: support 0 degree, 90 degree,		1*system LED (blue, blinking by default)		
Functionalities	180 degree, 270 degree manual rotation	Panel Backlight	12V backlight power supply		
	Support gravity sensor automatic screen rotation	Control			
	function (optional)	Power Input	DC12V/2A (with DC-JACK and 1*4		
	Press the key: 1*reset button, 1*power button,		pinWaferco-lay)		

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I/O Ports

1/0 1 0113			
Display Interface	1*eDP interface (eDP1.3, 4 laneswith 5.4Gbps) support 3.3V/5V/12V power supply, 1*LVDS interface (single channel/dual channel, 6 bit 8 bit), Supports 7"-108" display screen	Infrared Serial Port USB	1*Infrared receiver, support infrared control function, 4*RS232, 1*RS485, 1*TTL 6*USB-2.0HOST, 2*USB3.0HOST (support 1A output)
	1080P 60Hz output, support 3.3/5V/12V power supply, 1*HDMI 2.0 supports 4K60Hz output,	PCLE	1*MiniPCle is used for peripheral expansion 4GLTE
Audio	supports dual-screen different display function 1*Speaker output (D-class large built-in	SIM	1*SIM card socket, used to extend 4GLTE module with MiniPCIe
	speaker, 3W*24R), 1*3.5 mm Jack (support	TF	TF expansion card
	headphone jack output, support microphone, reserved socket), 1* microphone input	Spare IO	Spare IO 6 groups of IO detection ports: 1*12C, 1*ADC, 4*GPIO

Network and communication

Network and communication

RJ45 Gigabit Ethernet port; Equipped with Bluetooth + WIFI module, support WiFi802.11a/b/g/n/ac protocol, 2.4G/5G Dual-band AP6255 (optional other modules); Supports Bluetooth 4.2 protocol; support 4G function, LTE-TDD/LTE-FDD/TD-SCDMA/EDGE/GPRS/ GSMMini. (optional) PCleslot; SIMslot uses standard card 25mm*15mm; Supports USB, PCle signal equipment expansion

OS

OS Android 7.1/8.1

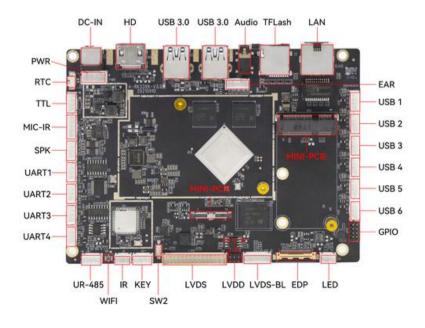
Environmental specifications

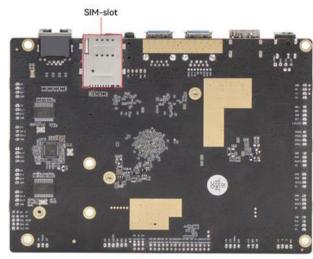
Operating temp. $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Storage temp. $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$, relative temperature 95%

Certification

Certification 3C, FCC, CE

Interface Diagram:





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