



## 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 dual-band WiFi/Bluetooth, RS485, built-in 4G module interface and other functions
- Ultra-thin motherboard design

## Specifications:

### Hardware Specifications

PCBA	4GB LPDDR3+16GB EMMC+HD+LVD5+WIFI+BT+GP5+RJ45+USB+ TF+SIM+DC, 8-layer HDI board immersion gold board, 146mm*105mm, height 13mm, black	Ram	RAM LPDDR3X2, 32GB or 4GB
CPU	Rockchip RK3399 (28nm HKMG process) ARM six-core 64-bit processor, clocked at 2.0GHz Based on big. LITTLE size core architecture, Dual-core Cortex-A72 (large core) + quad-core Cortex-A53 (small core) Quad-core ARM Mali-T860, support OpenGL ES1.1/2.0/3.0 GPU: OpenVG1.1. OpenCL. DirectX11	Storage	EMMC8GB/16GB/32GB/64GB optional (default 16GB) 1* SATA port, support 5V power supply; (optional, reserved position)
Display	Image rotation: support 0 degree, 90 degree, 180 degree, 270 degree manual rotation Support gravity sensor automatic screen rotation function (optional) Press the key: 1*reset button, 1*power button, 1*upgrade button	Touch Screen	Support USB multi-point infrared touch, multi-point capacitive touch, resistive touch
Functionalities		Camera	1*MIPI camera function, support 500W/1300W pixels (optional) Support 800W-USB interface camera (optional)
		RTC	built-in real-time clock power supply battery, Supports timing switch machine
		LED	1*power status LED (red), 1*system LED (blue, blinking by default)
		Panel Backlight	12V backlight power supply
		Control	
		Power Input	DC12V/2A (with DC-JACK and 1*4 pinWaferco-layer)

## I/O Ports

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 1080P 60Hz output, support 3.3/5V/12V power supply, 1*HDMI 2.0 supports 4K60Hz output, supports dual-screen different display function	Infrared Serial Port	1*Infrared receiver, support infrared control function, 4*RS232, 1*RS485, 1*TTL
Audio	1*Speaker output (D-class large built-in speaker, 3W*24R), 1*3.5 mm Jack (support headphone jack output, support microphone, reserved socket), 1* microphone input	USB	6*USB-2.0HOST, 2*USB3.0HOST (support 1A output)
		PCLE	1*MiniPCle is used for peripheral expansion
		SIM	1*SIM card socket, used to extend 4GLTE
		TF	TF expansion card
		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) PCle slot; SIMslot uses standard card 25mm*15mm; Supports USB, PCle signal equipment expansion
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## OS

OS	Android 7.1/8.1
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## Environmental specifications

Operating temp.	-10°C~60°C	Storage temp.	-20°C~70°C, relative temperature 95%
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## Certification

Certification	3C, FCC, CE
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## Interface Diagram:

