Ultra HD Streaming Media Player with Rockchip RK3588 Octa-Core CPU 4GB RAM 32GB ROM



Specifications

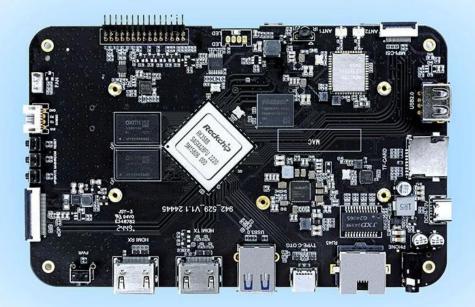
specifications	
Model No.	Rockchip RK3588 Streaming Media Player
CPU	Rockchip RK3588 Octa-Core ARM, Quad-Core Cortex-A76 @2.4GHz and Quad-Ccore Cortex-A55@1.8GHz
GPU	ARM Mali-G610 MC4, OpenGL ES 1.1/2.0/3.1/3.2, Vulkan 1.1, 1.2, OpenCL 1.1,1.2,2.0 Embedded high performance 2D image acceleration module
NPU	6 TOPS (Supports int4/int8/int16/FP16/BF16/TF32 Acceleration)
RAM	4GB LPDDR4X (2GB*2, Supports up to 32GB)
ROM	32G
WiFi OS	Built-in WiFi Module, 802.11 ax/ac/a/b/g/n Android 12
Bluetooth	Bluetooth 5.0
Hardware Interface	
Power input	Type-C Port (12V/2A)
Storage Extension	1*TF Card Slot 1*PCIE Hard Disk Data Port
Remote Control	1* Infrared Remote Control Receiver
RTC Battery	CR1220 Button Battery Onboard
Serial Port	2*UART Serial Port
Ethernet	1* 10/100/1000 Mbps RJ45 Port
WiFi	Built-in WiFi Module, 802.11 ax/ac/a/b/g/n
USB Port	1*USB3.0 Port 1*USB2.0 Port
	1* USB2.0 Port Reserved 4-Pin socket
LED Indicator	1*Three-Color LED Indicator
LCD Interface	1*Four-Channel 32-Pin Sequential MIPI interface 1*Dual-cChannel 30-Pin Sequential EDP interface
	1*Dual-container 50-Phil Sequential EDP Interface 1*HD Output Port, Support HD 2.1 up to 8K@60Hz output
Video Output Interface	1*DP Output Port, Support DP1.4 up to 4K@60Hz output
Video input	1*MIPI-CSI (dual-channel) 1*HD input Port, Supports up to HD 2.0 4K@60Hz input
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Audio interface	1*L/R, Left and Right Sound Channel Output (3.5mm Headset Port)
Other interfaces	1*SPK 7*GPIO, 3.3V Voltage 4*I2C, 3V Voltage, Support Touch Screen 1*ADC
	2*PWM
	1*5V Cooling Fan

Software Performance

Video&Audio CODEC	Decoding Performance: Supports MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP9, VP8, MVC and AV1@MMU embedded real-time video decoding; Multi-channel parallel decoding, supporting lower resolutions; H.264 AVC/MVC Main10 L6.0: support 8K@30fps(7680*4320); VP9 Profile0/2 L6.1: Support 8K@60fps(7680*4320)); H. 265 HEVC/MVC Main10 L6.1: support 8K@60fps(7680*4320); AVS2 Profile 0/2 L10.2.6: Support 8K@60fps(7680*4320); AV1 main configuration file 8/10bit L5.3: Support 4K@60fps(3840*2160); The MPEG-2 supports up to MP: 1080p@60fps(1920*1088); VC-1 supports up to AP level3: 1080p@60fps(1920*1088); VP8 version2[]1080p@60fps(1920*1088) Multi-Channel Audio Decoding: MP3,AAC,FLAC,WAV and other mainstream audio formats.
Ethernet	Module: RTL8111HS Performance: Support 10/100/1000 Mbps, providing stable and fast wired connection performance. Function: Support auto-negotiation function to automatically identify and configure network speed and duplex mode.
WiFi & BT	 Module: AP6275P WiFi specifications: Support 802.11ax/ac/a/b/g/n for high-speed wireless network connectivity of up to 2.4 Gbps. Support 2.4GHz and 5GHz dual frequency bands, optimize signal intensity and interference minimize. Support MU-MIMO technology to improve the data transmission efficiency during multi-user connection. BT specifications: [BT 5.0, support all traditional BT features and high-speed transmission. [Support BLE (bluetooth low energy) technology. [Support multiple BT devices to connect simultaneously, ensuring stable connections and efficient communication
Display Output	HDMI_TX supports up to 8K@60fps(7680x4320). EDP supports up to 4K@60fps(3840x2160). MIPI_CSI supports up to 4K@60fps(3840x2160). DP(type-c) supports up to 4K@ 60fps(3840x2160). Can be applied scene multi-screen display, different screen multi-display.
Input source	HDMI_RX supports up to 4K@60fps(3840*2160). MIPI_DSI(for camera) Suitable for PIP (picture-in-picture),conference machines and embedded external input source applications.
RTC	Chipset: HYM8563 This chip can maintain time operation through an external battery when the system is powered off, making it suitable for any application scenario that requires continuous tracking of time after power failure. It has basic alarm and timer functions, allowing you to set wake-up commands, which can be applied to timed on/off operations.

High-Performance AI Development Board

The RK3588 is a flagship AloT chip built on 8nm LP process, featuring an octa-core CPU (up to 2.4GHz), ARM Mali-G610 MP4 GPU, and a 6TOPs NPU for AI acceleration. It also integrates a 48MP ISP with HDR & 3DNR, supporting major deep learning frameworks for enhanced AI performance.







4~32GB RAM 8~128GB ROM



MC4 1GHz GPU



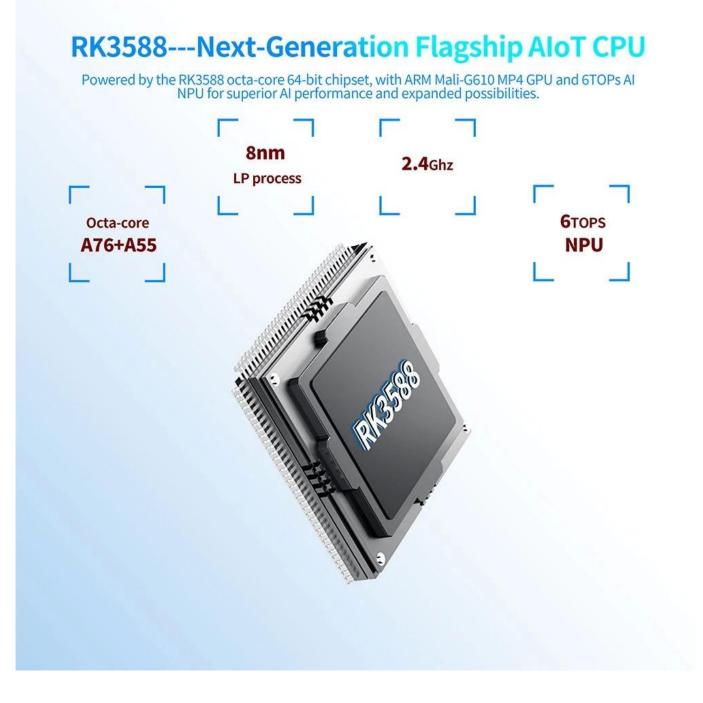
6Tops 6Tops NPU

BT5.x



8K Codec H.265 HEVC





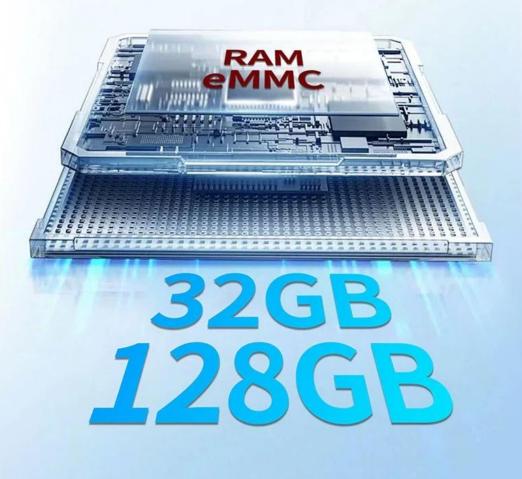
6 TOPS Powerful Computing Boosts AI Applications



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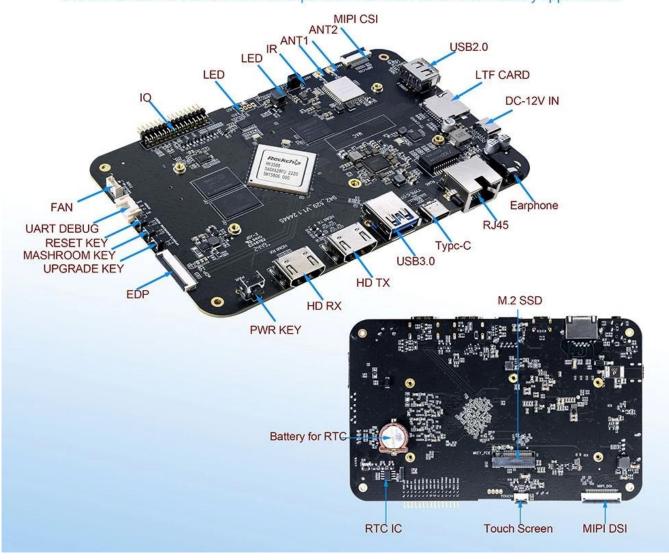
32GB Large RAM & 128GB EMMC

Up to 32GB RAM and 128GB eMMC storage, surpassing previous memory limits for faster response and meeting the demands of high-memory, high-storage applications.



Rich Expansion Interfaces

Multiple video output and input interfaces support simultaneous 8K@60fps video output and 4K@60fps video input. It also supports quad-screen display for high-definition interactive scenarios. The board offers rich expansion interfaces for diverse industry applications.



Powerful Network

Onboard Gigabit Ethernet, dual-band WiFi 6 (2.4GHz/5GHz), and Bluetooth 5.3 ensure seamless network connectivity and flexible support for various application needs.



Open System Architecture

Multi-system compatibility supporting Android 12 and Debian 11, with deep customization of the Linux kernel for remote upgrades and management, enhancing operational efficiency and ease.



Main Features

*The CPU is RK3588 Octa-core ARM processor (Quad Core Cortex-A76 and Quad Core Cortex-A55), with na maximum main frequency up to 2.4 GHz. It features with quad core Mali-G610 GPU, NPU computing power reaches 6TOPs with powerful performance.

*Manufacturing process: 8nm LP.

*With various LCD screen interfaces: four-channel MIPI, dual-channel EDP.

*Touch screen supporting the I2C interface.

*Support for TF card or PCIE drives as an additional storage extension.

*With multiple input and output extension, dual-channel UART serial port and seven-channel GPIO for input and output.

*With Android 12 OS

The 8K Ultra HD Streaming Media Player with Rockchip RK3588 Octa-Core CPU, 4GB RAM,

and 32GB ROM is engineered to redefine entertainment and productivity. Combining cutting-edge hardware with a user-friendly interface, this device is perfect for high-resolution streaming, gaming, and professional applications.

Powerful Rockchip RK3588 Octa-Core CPU

At its core, the device is powered by the **Rockchip RK3588 Octa-Core processor**, delivering lightning-fast performance for demanding tasks. With four Cortex-A76 cores for high performance and four Cortex-A55 cores for power efficiency, this CPU handles multitasking with ease. The integrated **Mali-G610 MP4 GPU** ensures stunning graphics and smooth playback of 8K content.

Ample Memory and Storage

The media player includes **4GB of RAM**, enabling seamless multitasking and responsive performance. Its **32GB ROM** provides ample storage for apps, media, and files, ensuring quick access to all your favorite content. Expandable storage options further enhance its versatility for users with extensive media libraries.

Immersive 8K Ultra HD Experience

This device supports **8K Ultra HD resolution**, offering breathtaking clarity and vivid color reproduction. Paired with **HDR10+ technology**, it provides enhanced contrast, dynamic range, and true-to-life visuals, making it ideal for movies, gaming, and professional digital displays.

AI-Powered Features

The Rockchip RK3588 integrates AI capabilities for advanced applications like facial recognition, voice control, and real-time analytics. These features make it suitable for smart homes, interactive business solutions, and AI development projects.

Android OS for Seamless Operation

Running on the **Android operating system**, the device ensures intuitive navigation and access to a vast library of apps from the Google Play Store. The customizable interface and software compatibility make it perfect for both personal entertainment and professional tasks.

Advanced Connectivity

Stay connected with cutting-edge technologies, including:

- WiFi 6 for high-speed, stable wireless connections
- Bluetooth 5.0 for pairing peripherals like keyboards and speakers
- HDMI 2.1 for crisp, high-resolution display output
- USB-C and USB 3.0 ports for external devices and fast data transfer

Versatile Applications

This media player is designed for a variety of uses, including:

- Home Entertainment: Stream 8K movies, play immersive games, and access your favorite apps.
- Gaming: Enjoy smooth gameplay with exceptional graphics.
- Digital Signage: Showcase vibrant content for retail and professional settings.
- Professional Use: Enhance video conferencing, presentations, and real-time analytics.
- AI Development: Leverage its processing power for AI projects.

Compact and Modern Design

The device's sleek and compact design fits easily into any environment. Its energy-efficient components minimize power consumption, making it an eco-friendly choice for home and business

applications.

Why Choose This Media Player?

The **8K Ultra HD** <u>Streaming Media Player</u> stands out for its superior performance, advanced features, and versatile applications. Whether you're a tech enthusiast, gamer, or business professional, this device meets diverse digital needs with ease.

Conclusion

Delivering exceptional performance and stunning visuals, the **Ultra HD Streaming Media Player with Rockchip RK3588 Octa-Core CPU, 4GB RAM, and 32GB ROM** is the ultimate device for modern entertainment and professional tasks. With its state-of-the-art features, it offers unmatched versatility and value, making it an essential addition to any digital setup.