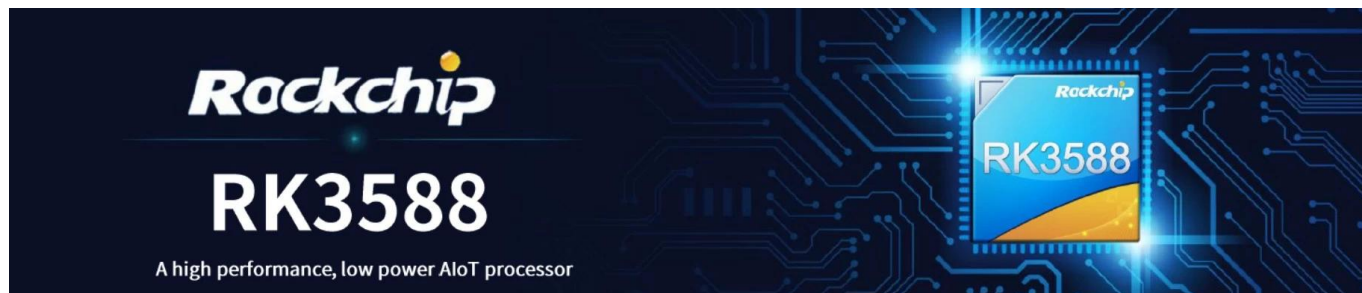


# Rockchip RK3588 Octa Core Android 12 OTT TV Box: The Ultimate 8K Streaming Device



## Specifications

Model No.	Rockchip RK3588 OTT TV Box
CPU	Rockchip RK3588 8nm process, quad-core Cortex-A76 + quad-core Cortex-A55
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)
RAM	4GB/8GB (64bit LPDDR4/LPDDR4x)
ROM	32G/64G/128G/256G (eMMC5.0/ 5.1)
WiFi	Type IEEE 802.11a/b/g/n/ac/ax Frequency Wi-Fi6 2.4GHz/5.8GHz ( PCIe v3.0) Antenna Type 2T2R
OS	Android 12 and Multi-Language
Bluetooth	Bluetooth 5.0

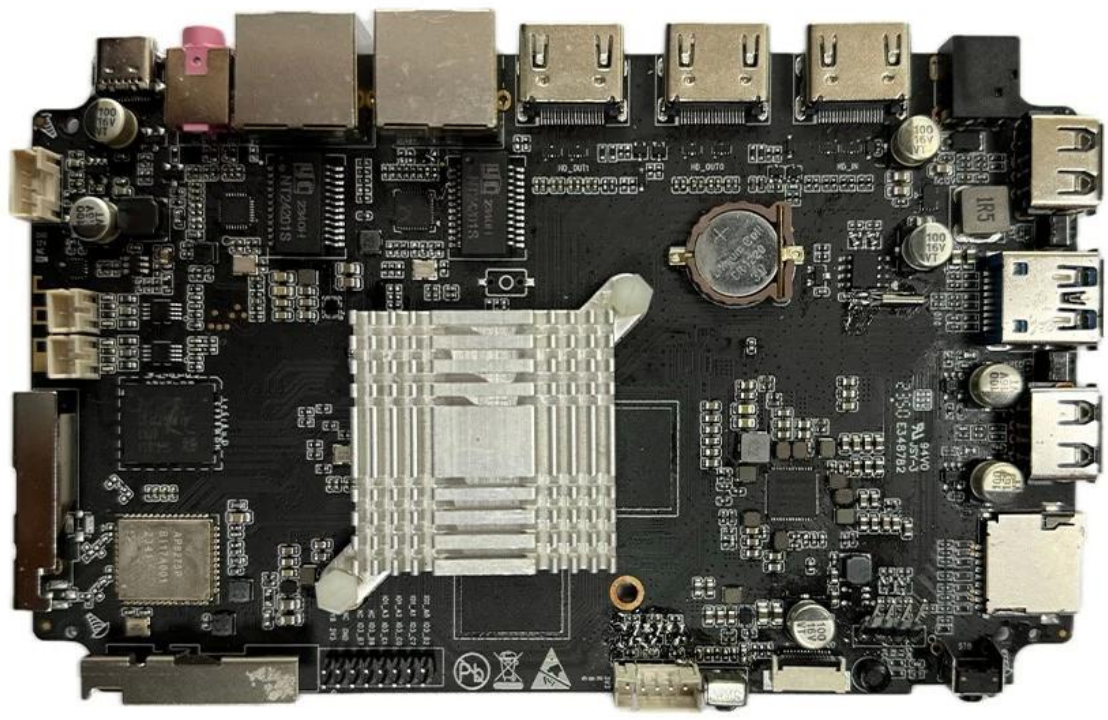
## Video&Audio CODEC

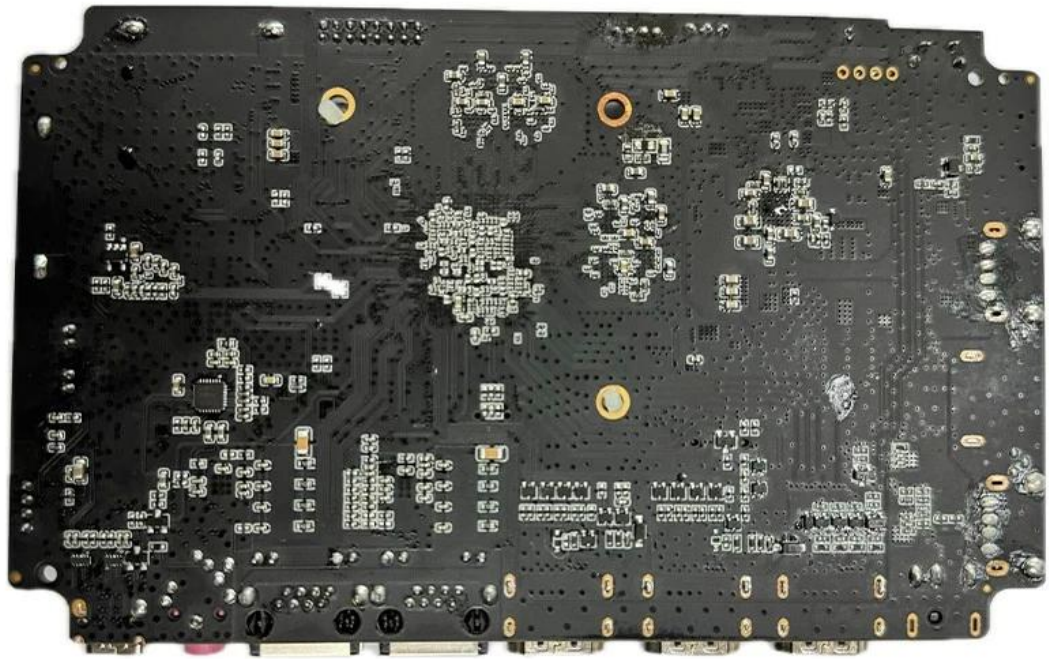
Video Codec	<ul style="list-style-type: none"><li>* Real-time video decoder of MPEG-1,MPEG-2,MPEG-4,H.263,H.264,H.265,VC-1,VP9,VP8 MVC,AV1</li><li>* MMU Embedded</li><li>* Multi-channel decoder in parallel for less resolution</li><li>* H.264 AVC/MVC Main10 L6.0 : 8K@30fps (7680x4320)</li><li>* VP9 Profile0/2 L6.1 : 8K@60fps (7680x4320)</li><li>* H.265 HEVC/MVC Main10 L6.1 : 8K@60fps (7680x4320)</li><li>* AVS2 Profile0/2 L10.2.6 : 8K@60fps (7680x4320)</li><li>* AV1 Main Profile 8/10bit L5.3 : 4K@60fps (3840x2160)</li><li>* MPEG-2 up to MP : 1080p@60fps (1920x1088)</li><li>* MPEG-1 up to MP : 1080p@60fps (1920x1088)</li><li>* VC-1 up to AP level 3 : 1080p@60fps (1920x1088)</li><li>* VP8 version2 : 1080p@60fps (1920x1088)</li></ul> <p>Video Encoder</p> <ul style="list-style-type: none"><li>* Real-time H.265/H.264 video encoding</li><li>* Support up to 8K@30fps</li><li>* Multi-channel encoder in parallel for less resolution</li><li>* Dual 16M Pixel ISP with HDR&amp;3DNR I2S0 with 8 channels</li><li>* Up to 8 channels TX and 8 channels RX path</li><li>* Audio resolution from 16bits to 32bits</li><li>* Sample rate up to 192KHz</li></ul>
Audio Codec	<ul style="list-style-type: none"><li>* Provides master and slave work mode, software configurable</li><li>* Support 3 I2S formats (normal, left-justified, right-justified)</li><li>* Support 4 PCM formats (early, late1, late2, late3)</li><li>* Support TDM normal, 1/2 cycle left shift, 1 cycle left shift, 2 cycle left shift, right shift mode serial audio data transfer</li><li>* I2S, PCM and TDM mode cannot be used at the same time</li></ul>

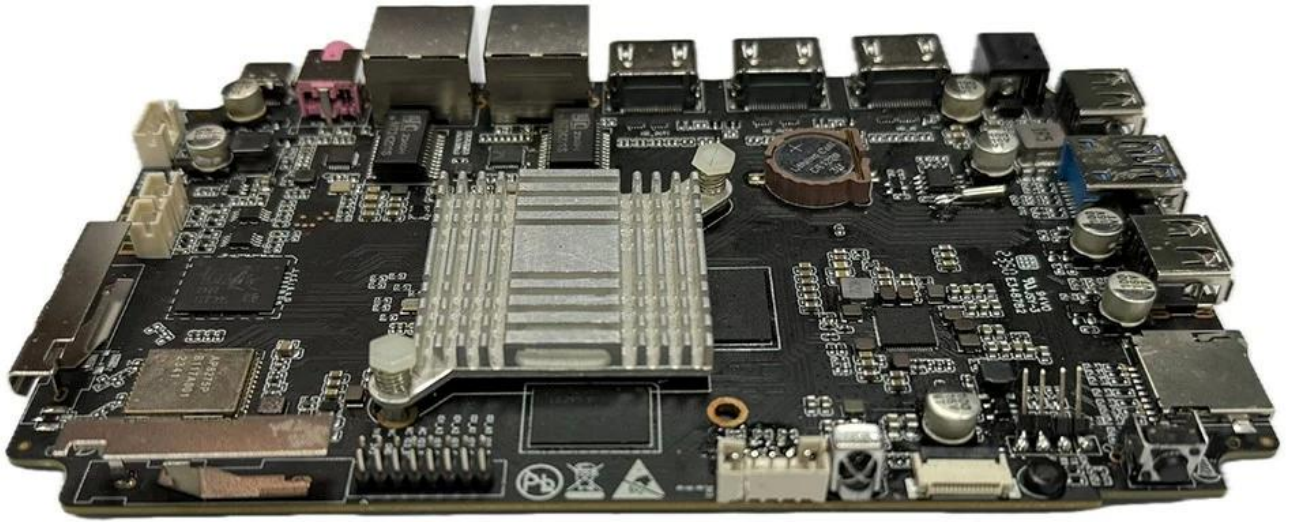
## I/O Port

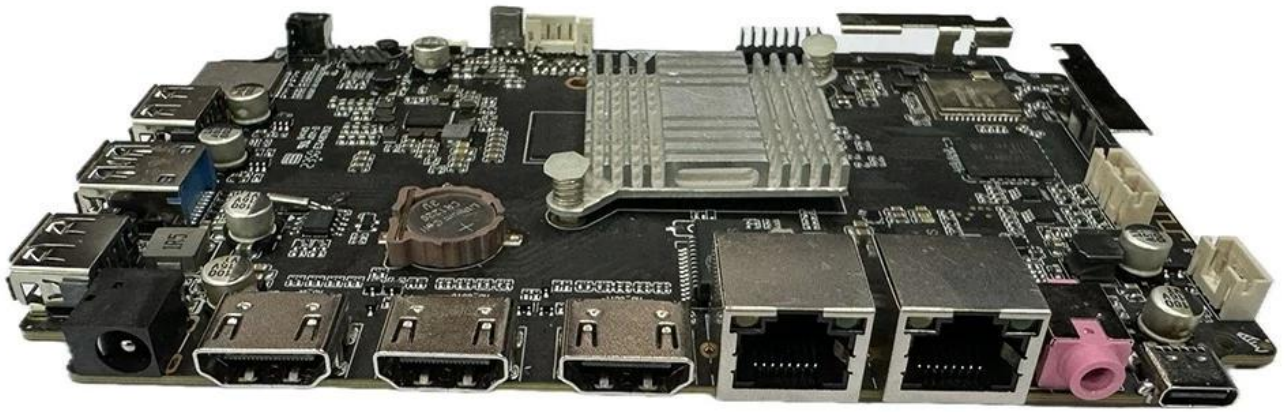
Power Supply	DC 12V/2A Power ON: Blue
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RTC	Support
IR	Infrared + BT Voice Remote
HDMI	HDMI OUT 1:HDMI 2.1/7680x4320@60Hz HDMI OUT 2:HDMI 2.1/4096x2304@60Hz HDMI IN:HDMI 2.0/HDMI 1.4b 4K x 2K video formats(3840x 2160p@24Hz/25Hz/30Hz and 4096x2160p@24Hz)
Earphone	1*3.5mm Port
Ethernet	Ethernet 1:1*1000M(RGMII) Ethernet 2:1*1000M
TF Card	1*TF Card
USB port	2*USB 2.0 (Host) 1*USB3.0 (Host)
Type-C	1*Type C 3.0 (Download Port) Supported Devices

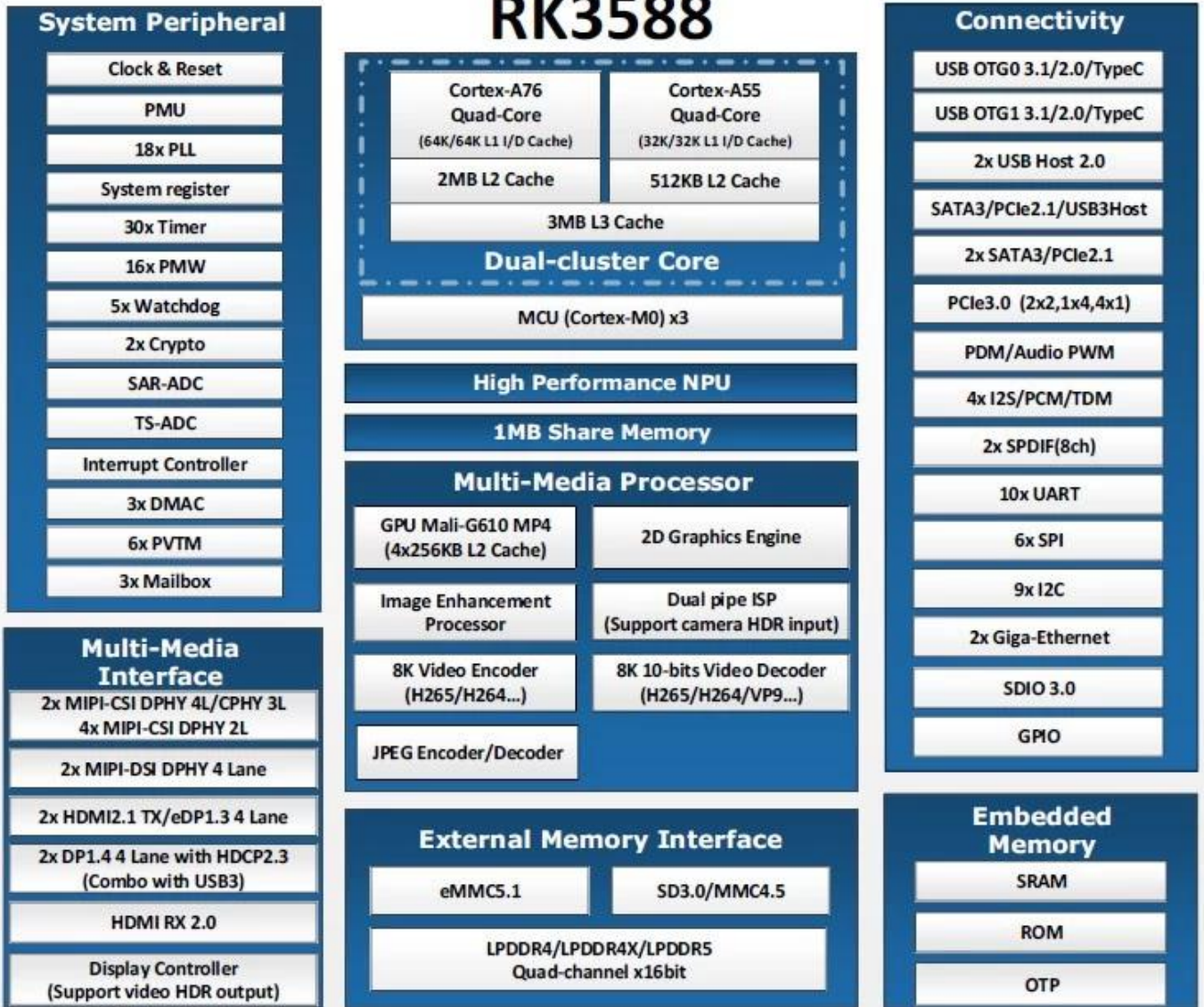








# RK3588



## Typical Application Diagram – AIoT





## Introduction

The Rockchip RK3588 Octa Core Android 12 OTT TV Box represents the pinnacle of modern home entertainment technology. Engineered for those who demand both performance and quality, this cutting-edge device combines the power of the Rockchip RK3588 Octa Core processor with the latest Android 12 operating system to deliver an unparalleled streaming experience. Whether you're a movie aficionado, a gaming enthusiast, or someone who simply enjoys high-quality content, the RK3588 OTT TV Box is designed to meet all your entertainment needs with precision and ease.

## Powerful Octa Core Processing

At the heart of the RK3588 OTT TV Box is the Rockchip RK3588 Octa Core processor, a state-of-the-art chip designed to handle even the most demanding tasks. This processor boasts eight cores, which deliver exceptional processing power and speed. With this kind of performance, the device can easily manage 8K Ultra HD content, ensuring that every frame is rendered with stunning clarity and detail. Whether you're streaming high-definition movies, playing resource-intensive games, or multitasking with multiple apps, the RK3588 provides a smooth and responsive experience.

## 8K Ultra HD Streaming

One of the standout features of the Rockchip RK3588 OTT TV Box is its support for 8K Ultra HD streaming. As the industry moves towards higher resolution content, having a device that can fully support 8K is crucial for future-proofing your entertainment setup. The RK3588 ensures that you enjoy the highest possible picture quality, with vivid colors, deep contrasts, and sharp details that bring your favorite movies and shows to life. This level of clarity enhances your viewing experience, making it more immersive and engaging.

## Advanced Android 12 Operating System

The RK3588 TV Box runs on Android 12, the latest version of Google's operating system. Android 12 brings a host of new features and improvements, including a more intuitive user interface, enhanced privacy controls, and better performance. With access to the Google Play Store, you can download a wide range of apps, from popular streaming services like Netflix and Hulu to games, news apps, and productivity tools. This extensive app library allows you to customize your TV box to fit your personal preferences and entertainment needs.

## Superior Connectivity and Performance

The inclusion of 4GB of RAM and WiFi 6 technology ensures that the Rockchip RK3588 OTT TV Box offers superior connectivity and performance. WiFi 6 provides faster speeds, increased capacity, and lower latency compared to previous generations, which means you can enjoy seamless streaming and browsing without interruptions. The 4GB of RAM allows for smooth multitasking, so you can switch between apps and tasks effortlessly. Combined with high-speed internet connectivity, this device minimizes buffering and lag, providing a more enjoyable and hassle-free experience.



## **Versatile Entertainment Hub**

Beyond its powerful performance and 8K streaming capabilities, the Rockchip RK3588 OTT TV Box is a versatile entertainment hub. It offers multiple connectivity options, including USB ports and HDMI 2.1, allowing you to connect external devices, such as hard drives, game controllers, and other peripherals. This versatility makes it easy to expand your entertainment setup and integrate various devices into your home theater system.

## **Conclusion**

The Rockchip RK3588 Octa Core Android 12 [OTT TV Box](#) is an exceptional choice for anyone looking to enhance their home entertainment experience. With its powerful Octa Core processor, support for 8K Ultra HD streaming, and the latest Android 12 operating system, it delivers top-notch performance and quality. Whether you're streaming your favorite shows, playing games, or exploring new apps, this TV box offers a seamless and immersive experience. Invest in the Rockchip RK3588 today and transform your home entertainment setup into a cutting-edge, high-performance media center.