Rockchip RK3588 Octa Core Set Top Box: The Ultimate Streaming Solution

Specifications		
Model No.	Rockchip RK3588 Set Top 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	* Real-time video decoder of MPEG-1,MPEG-2,MPEG-4,H.263,H.264,H.265,VC-1,VP9,VP8 MVC,AV1 * MMU Embedded * Multi-channel decoder in parallel for less resolution * H.264 AVC/MVC Main10 L6.0 : 8K@30fps (7680x4320) * VP9 Profile0/2 L6.1 : 8K@60fps (7680x4320) * H.265 HEVC/MVC Main10 L6.1 : 8K@60fps (7680x4320) * AVS2 Profile0/2 L10.2.6 : 8K@60fps (7680x4320) * AV1 Main Profile 8/10bit L5.3 : 4K@60fps (3840x2160) * MPEG-2 up to MP : 1080p@60fps (1920x1088) * MPEG-1 up to MP : 1080p@60fps (1920x1088) * VC-1 up to AP level 3 : 1080p@60fps (1920x1088) * VP8 version2 : 1080p@60fps (1920x1088) Video Encoder * Real-time H.265/H.264 video encoding * Support up to 8K@30fps * Multi-channel encoder in parallel for less resolution * Dual 16M Pixel ISP with HDR&3DNR	
Audio Codec	I2S0 with 8 channels * Up to 8 channels TX and 8 channels RX path * Audio resolution from 16bits to 32bits * Sample rate up to 192KHz * Provides master and slave work mode, software configurable * Support 3 I2S formats (normal, left-justified, right-justified) * Support 4 PCM formats (early, late1, late2, late3) * Support TDM normal, 1/2 cycle left shift, 1 cycle left shift, 2 cycle left shift, right shift mode serial audio data transfer * I2S, PCM and TDM mode cannot be used at the same time	
I/O Port		
Power Supply	DC 12V/2A Power ON: Blue	
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	

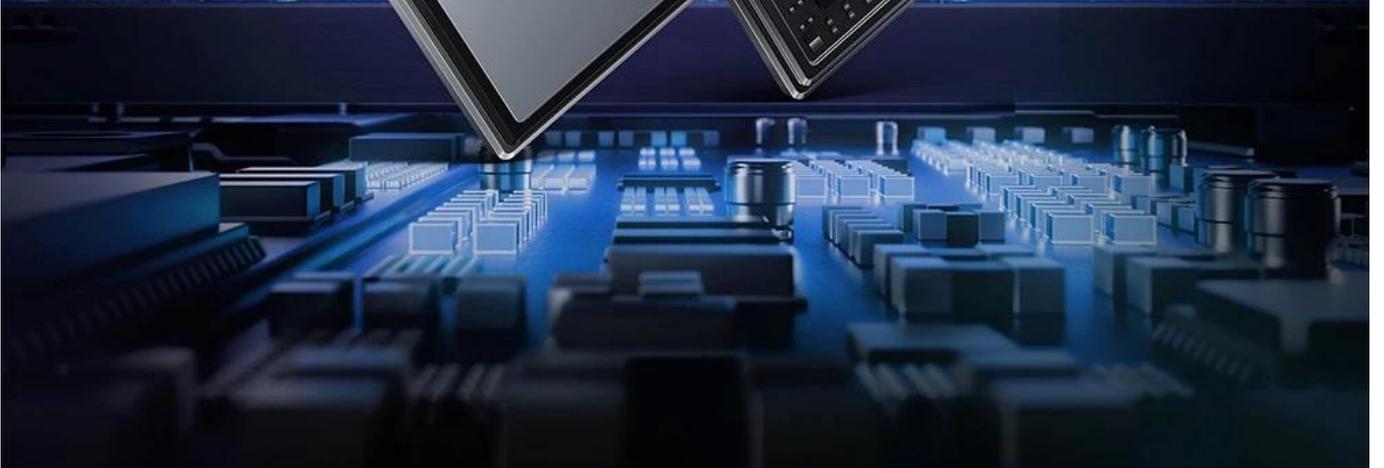|	
TF Card	1*TF Card
USB port	2*USB 2.0 (Host) 1*USB3.0 (Host)
Type-C	1*Type C 3.0 (Download Port) Supported Devices

Rockchip RK3588

Next generation Octa-Core processor with high
performance AI system-on-module

8K Ultra High Quality

Unlock the portential of 8K video output and 4K video input.
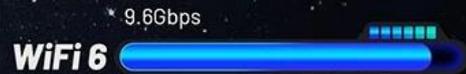Rich details display to let you see the world more clearly.

WiFi 6

WiFi6 is faster and has a larger capacity

3.5Gbps		9.6Gbps	
WiFi 5		WiFi 6	

2T2R 802.11 ax/ac/a/b/g/n

BT 5.0

Android 12/Linux Debian11

Compatible with Android and Linux operating systems

Multi-Screen Different Display

Enhance your viewing experience with multi-screen display.
Perfect for immersive, high-definition, multi-screen interactive scenarios.

Large Memory Capacity

Large storage capacity up to 32GB RAM and 128GB ROM,
which allows you to install a wide number of applications.

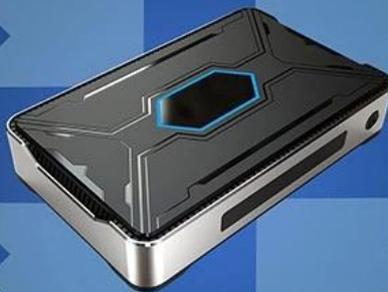**RAM** 4G 8G 16G 32G   **ROM** 16G 32G 64G 128G

Interface & Dimension

160mm

DC 12V | HD IN | HD OUT1 (8K) | HD OUT2 (4K) | ETHERNET1 | ETHERNET2 | AUDIO | TYPE-C

100mm

31mm

TF card | USB 2.0 | USB 3.0 | USB 2.0
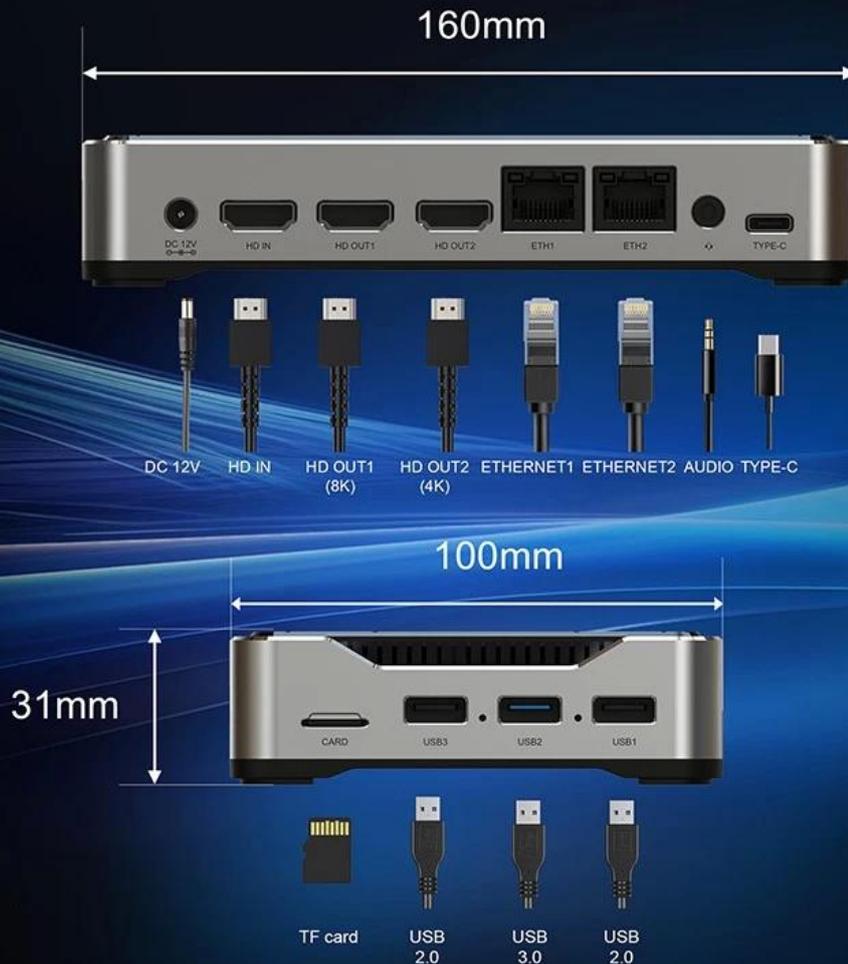
Introduction

The Rockchip RK3588 Octa Core Set Top Box is a groundbreaking device that brings the latest in streaming and gaming technology to your living room. Designed for users who seek high performance and superior visual quality, this set top box is equipped with advanced hardware and software features that make it a leader in the market. Whether you're a movie buff, a gamer, or someone who enjoys streaming content in the highest possible resolution, the RK3588 is engineered to meet and exceed your expectations.

Powerful Performance

At the heart of the Rockchip RK3588 Set Top Box is a powerful Octa Core processor that ensures your device runs smoothly, even when handling demanding tasks. Whether you're switching between multiple apps, streaming 8K content, or playing resource-intensive games, this set top box delivers consistent, high-speed performance. The 4GB of RAM further enhances its capability to manage multitasking and ensures that your apps load quickly and run without hiccups. This combination of

processing power and memory means that you can enjoy a lag-free experience, no matter what you're doing.

Stunning 8K Ultra HD Streaming

One of the most impressive features of the RK3588 Set Top Box is its support for 8K Ultra HD streaming. As 8K content becomes increasingly available, this device ensures that you're ready to enjoy every pixel of it. The 8K support provides a level of detail and clarity that far surpasses traditional HD, bringing you an incredibly lifelike viewing experience. Whether you're watching a movie, streaming a TV series, or playing a game, the Rockchip RK3588 Set Top Box ensures that every scene is rendered in stunning detail, with vibrant colors and deep contrasts.

Android 12: Modern, Intuitive, and Versatile

The RK3588 Set Top Box runs on Android 12, the latest version of the popular operating system. Android 12 offers a sleek and intuitive interface, making it easy to navigate and find your favorite apps and content. The operating system also introduces enhanced privacy controls, better performance, and improved compatibility with other smart devices in your home. With access to the Google Play Store, you can download thousands of apps, from streaming services to games and productivity tools, turning your set top box into a multifunctional entertainment hub.

WiFi 6: Fast and Reliable Connectivity

In addition to its powerful processing and stunning visuals, the RK3588 Set Top Box is equipped with WiFi 6 technology, the latest standard in wireless connectivity. WiFi 6 offers faster speeds, greater capacity, and reduced latency, ensuring that your streaming experience is smooth and uninterrupted. Whether you're watching 8K videos, playing online games, or browsing the web, WiFi 6 keeps your connection stable and fast, eliminating buffering and lag issues that can detract from your entertainment experience.

Comprehensive Connectivity Options

The Rockchip RK3588 Set Top Box also boasts a wide range of connectivity options, including multiple USB ports, HDMI 2.1 for high-definition output, and Bluetooth support. These features allow you to connect various peripherals such as external storage devices, gaming controllers, wireless keyboards, and more. This versatility enhances the functionality of your set top box, making it more than just a streaming device—it becomes a central hub for all your digital entertainment needs.

Conclusion

The Rockchip RK3588 Octa Core [Set Top Box](#) is a premier choice for anyone looking to elevate their home entertainment experience. With its powerful Octa Core processor, 8K Ultra HD support, Android 12 operating system, and WiFi 6 connectivity, this device is designed to provide an exceptional user experience. Whether you're streaming the latest movies, playing games, or simply browsing the web, the RK3588 Set Top Box delivers the performance, speed, and quality you need. Invest in the Rockchip RK3588 Octa Core Set Top Box today and transform your home into an ultimate entertainment hub.