

Rockchip RK3588 Octa Core 产品规格书:

产品规格书

产品概述

产品型号	Rockchip RK3588
核心配置	Rockchip RK3588 8 核处理器, 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
显示支持	2D 显示支持
编解码器	6 编解码器 (int4/int8/int16/FP16/BF16/TF32)
内存	4GB/8GB (64 通道 LPDDR4/LPDDR4x)
存储	32G/64G/128G/256G (eMMC5.0/ 5.1)
接口	IEEE 802.11a/b/g/n/ac/蓝牙
网络	Wi-Fi6 2.4GHz/5.8GHz (PCIe v3.0)
摄像头	2T2R
操作系统	Android 12 支持
其他	5.0

性能规格

视频编解码	MPEG-1,MPEG-2,MPEG-4,H.263,H.264,H.265,VC-1,VP9,VP8 MVC,AV1 MMU 支持
视频播放	H.264 AVC/MVC Main10 L6.0 : 8K@30fps (7680x4320)
视频播放	VP9/2 L6.1 : 8K@60fps (7680x4320)
视频播放	H.265 HEVC/MVC Main10 L6.1 : 8K@60fps (7680x4320)
视频播放	AVS2 Profile0/2 L10.2.6 : 8K@60fps (7680x4320)
视频播放	AV1 8/10 位 L5.3 : 4K@60fps (3840x2160)
视频播放	MPEG-2 MP : 1080p@60fps (1920x1088)
视频播放	MPEG-1 MP : 1080p@60fps (1920x1088)
视频播放	VC-1 AP 3 : 1080p@60fps (1920x1088)
视频播放	VP8 2 : 1080p@60fps (1920x1088)
视频播放	H.265/H.264 8K@30fps
ISP	ISP 16M HDR&3DNR
I2S	I2S0 8 通道
I2S	8 通道 TX 8 通道 RX
I2S	16 通道 32 通道
I2S	192KHz
I2S	3 通道 I2S (early, late1, late2, late3)
I2S	4 通道 PCM (early, late1, late2, late3)
I2S	TDM 通道, 1/2 通道, 1 通道, 2 通道,
I2S	I2S, PCM 通道 TDM 通道

接口规格

电源	DC 12V/2A 接口: 接口
接口	接口
接口	BT
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 (3840x2160p@24Hz/25Hz/30Hz) 4096x2160p@24Hz
接口	1*3.5 接口

□□□□□□□□□□

□□□□ TF

□□□□ USB

□□□□□-C

□□□□□□□□□□ 1:1*1000M(RGMII)

□□□□□□□□□□ 2:1*1000M

1 * □□□□ TF

2*□□□□□□□□ 2.0 (□□□□□)

1 * USB3.0 (□□□□□)

1 * □□□□□□□□□□□□□□□□□□□□ Type C 3.0 (□□□□□□□□□□□□□□)



Rockchip RK3588

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



8K Ultra High Quality

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



4K 3840×2160

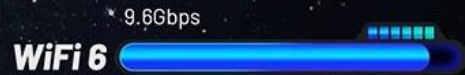
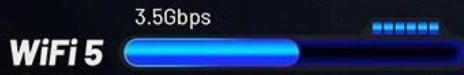


8K 7680×4320



WiFi 6

WiFi6 is faster and has a larger capacity



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



WHAT CAN WE DO?



Watch movies



Working Conference



Teaching



Play games

RAM 4GB
8K Ultra HD
Android 12

8K Ultra HD

RK3588 8K Ultra HD
8K
8K
HD
Rockchip RK3588

Android 12:

Set Top Box RK3588 Android 12
Google Play Store

WiFi 6:

RK3588 WiFi 6
8K WiFi 6

Rockchip RK3588 USB
HDMI 2.1 Bluetooth

Rockchip RK3588 [Set Top Box](#)

Octa Core 8K Ultra HD, Android 12

WiFi 6
RK3588
Rockchip RK3588
Octa Core