

Rockchip RK3588 Octa Core

Processor

Processor	Rockchip RK3588 Octa Core
Core	Rockchip RK3588 8 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
Cache	2D
IO	6 (int4/int8/int16/FP16/BF16/TF32)
RAM	4GB/8GB (64 LPDDR4/LPDDR4x)
Storage	32G/64G/128G/256G (eMMC5.0/ 5.1)
Network	IEEE 802.11a/b/g/n/ac
Wireless	Wi-Fi6 2.4GHz/5.8GHz (PCIe v3.0)
Display	2T2R
OS	Android 12
Version	5.0

Media

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

Power/IO

Power	DC 12V/2A
IO	
IO	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
IO	1*3.5
IO	1:1*1000M(RGMII)
IO	2:1*1000M
IO	1 * TF

USB

2* 2.0

1 * USB3.0

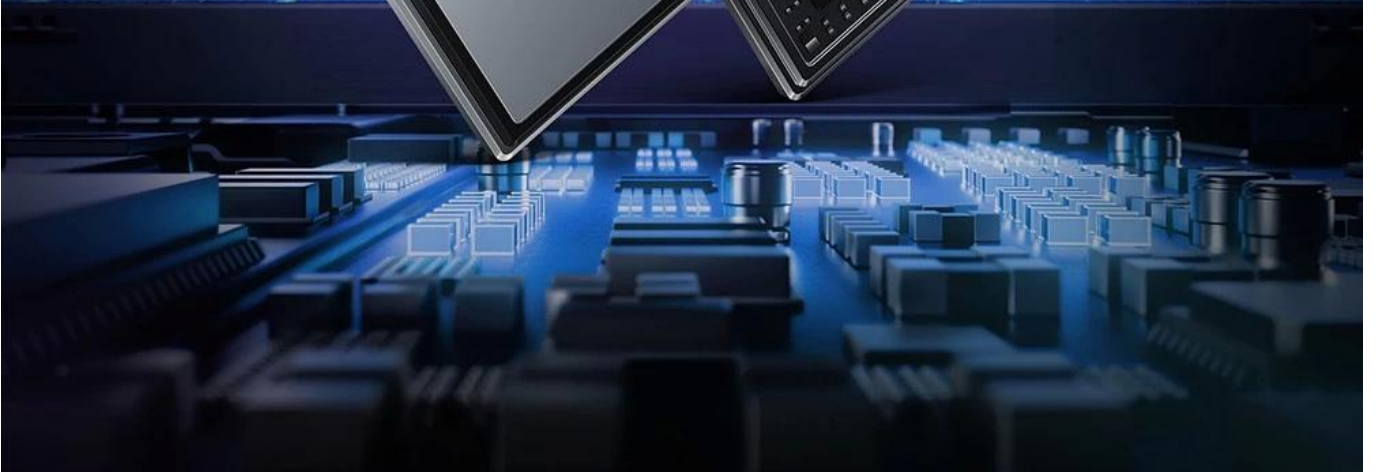
-C

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

WiFi 5 3.5Gbps

WiFi 6 9.6Gbps

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



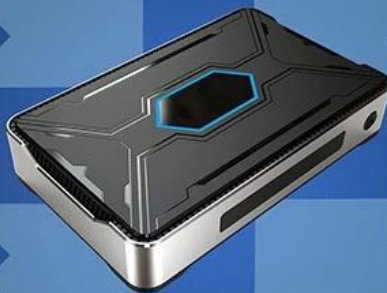
WHAT CAN WE DO?



Watch movies



Working Conference



Teaching



Play games

8K 8K 8K

8K Ultra HD

RK3588 Octa Core 8K Ultra HD 8K RK3588 8K

Android 12

Streaming Media Player RK3588 Android 12 Android 12 Google Play Store

WiFi 6

RK3588 Octa Core Streaming Media Player WiFi 6 WiFi 6 8K USB HDMI 2.1

Octa Core RK3588

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