Rockchip RK3588 □□ □□ CPU 4GB □□ 32GB □□ □□□ □□□ HD □□□□ □□□ □□□□□

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□□□□	Rockchip RK3588 □□□□ □□□ □□□□
CPU	Rockchip RK3588 □□ □□ ARM, □□ □□ Cortex-A76 @2.4GHz □ □□ 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 □□□□ □□□ 2D □□□ □□ □□
NPU	6 TOPS(int4/int8/int16/FP16/BF16/TF32 □□ □□)
RAM	4GB LPDDR4X(2GB*2, □□ 32GB □□)
□□ □□	32G
WiFi	□□ WiFi □□, 802.11 ax/ac/a/b/g/n
OS	□□□□□ 12
□□□□	□□□□ 5.0
□□□□ □□□□□	
□□ □□	C□ □□(12V/2A)
□□□□ □□	1*TF □□ □□ 1*PCIE □□ □□□ □□□ □□
□□ □□	1* □□□ □□ □□ □□□
RTC □□□	CR1220 □□ □□□ □□□
□□ □□	2*UART □□ □□
□□□	1* 10/100/1000Mbps RJ45 □□
WiFi	□□ WiFi □□, 802.11 ax/ac/a/b/g/n
USB □□	1*USB3.0 □□ 1*USB2.0 □□ 1* USB2.0 □□ □□□ 4□ □□
LED □□□	1*3□ LED □□□
LCD □□□□□	1*4□□ 32□ □□ MIPI □□□□□□ 1*□□ c□□ 30□ □□ EDP □□□□□
□□□ □□ □□□□□□	1*HD □□ □□, HD 2.1 □□ 8K@60Hz □□ □□ 1*DP □□ □□, DP1.4 □□ 4K@60Hz □□ □□
□□□ □□	1*MIPI-CSI(□□ □□) 1*HD □□ □□, □□ HD 2.0 4K@60Hz □□ □□
□□□ □□□□□	1*□□□ 1*L/R, □□ □ □□□ □□□ □□ □□(3.5mm □□□ □□) 1*SPK
□□ □□□□□	7*GPIO, 3.3V □□ 4*I2C, 3V □□, □□□□□ □□ 1*ADC 2*PWM 1*5V □□□
□□□□□ □□	

비디오&오디오 코덱	: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP9, VP8, MVC 및 AV1@MMU . H.264 AVC/MVC Main10 L6.0: 8K@30fps(7680*4320) 지원; VP9 Profile0/2 L6.1: 8K@60fps(7680*4320) 지원); H. 265 HEVC/MVC Main10 L6.1: 8K@60fps(7680*4320) 지원; AVS2 프로필 0/2 L10.2.6: 8K@60fps(7680*4320) 지원; AV1 8/10bit L5.3: 4K@60fps(3840*2160) 지원; MPEG-2에 대한 MP: 1080p@60fps(1920*1088); MPEG-1에 대한 MP: 1080p@60fps(1920*1088); VC-1에 대한 AP 레벨3 : 1080p@60fps(1920*1088); VP8 레벨2 로 1080p@60fps(1920*1088) : MP3,AAC,FLAC,WAV .
이더넷	칩셋: RTL8111HS 속도: 10/100/1000Mbps. 특징: .
WiFi	칩셋: AP6275P WiFi 기능: 최대 2.4Gbps 802.11ax/ac/a/b/g/n을 지원합니다. 2.4GHz 와 5GHz . MU-MIMO 기술을 지원함. : LT 5.0을 지원 하여 BT . □BLE() 기술을 지원함. Ÿ□□ BT .
디스플레이 출력	HDMI_TX는 최대 8K@60fps(7680x4320)를 지원합니다. EDP는 최대 4K@60fps(3840x2160)를 지원합니다. MIPI_CSI는 최대 4K@60fps(3840x2160)를 지원합니다. DP(type-c)는 최대 4K@ 60fps(3840x2160)를 지원합니다. , .
	HDMI_RX는 최대 4K@60fps(3840*2160)를 지원합니다. MIPI_DSI() PIP(picture-in-picture), .
RTC	칩셋: HYM8563 . , /.

High-Performance AI Development Board

The RK3588 is a flagship AIoT 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.
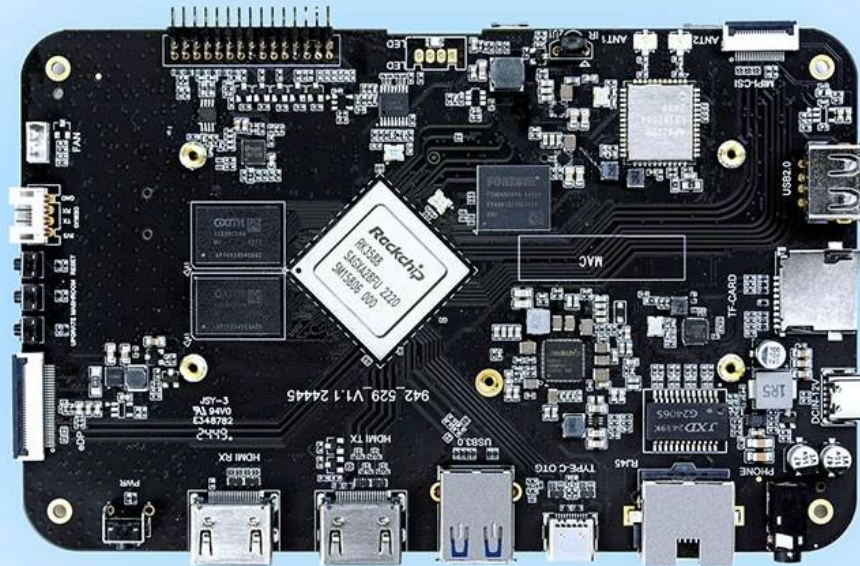
CPU	**GPU**	**6Tops NPU**	**8K**
RK3588 0cta-core CPU	Mali-G610 MC4 1GHz GPU	6Tops NPU	8K Codec H.265 HEVC
4~32GB RAM 8~128GB ROM	WIFI6 1000M LAN	BT5.x	Android/Linux

RK3588---Next-Generation Flagship AIoT CPU

Powered by the RK3588 octa-core 64-bit chipset, with ARM Mali-G610 MP4 GPU and 6TOPs AI NPU for superior AI performance and expanded possibilities.

8nm
LP process

2.4 Ghz

Octa-core
A76+A55

6TOPS
NPU

6 TOPS Powerful Computing Boosts AI Applications

Powerful NPU with 6TOPS performance, supporting INT4/INT8/INT16 operations. Compatible with TensorFlow, MXNet, PyTorch, Caffe, and more. Efficiently accelerates convolution and traditional image processing operations like Gaussian filter, median filter, Laplacian, and Sobel, ideal for edge computing and vision control applications.
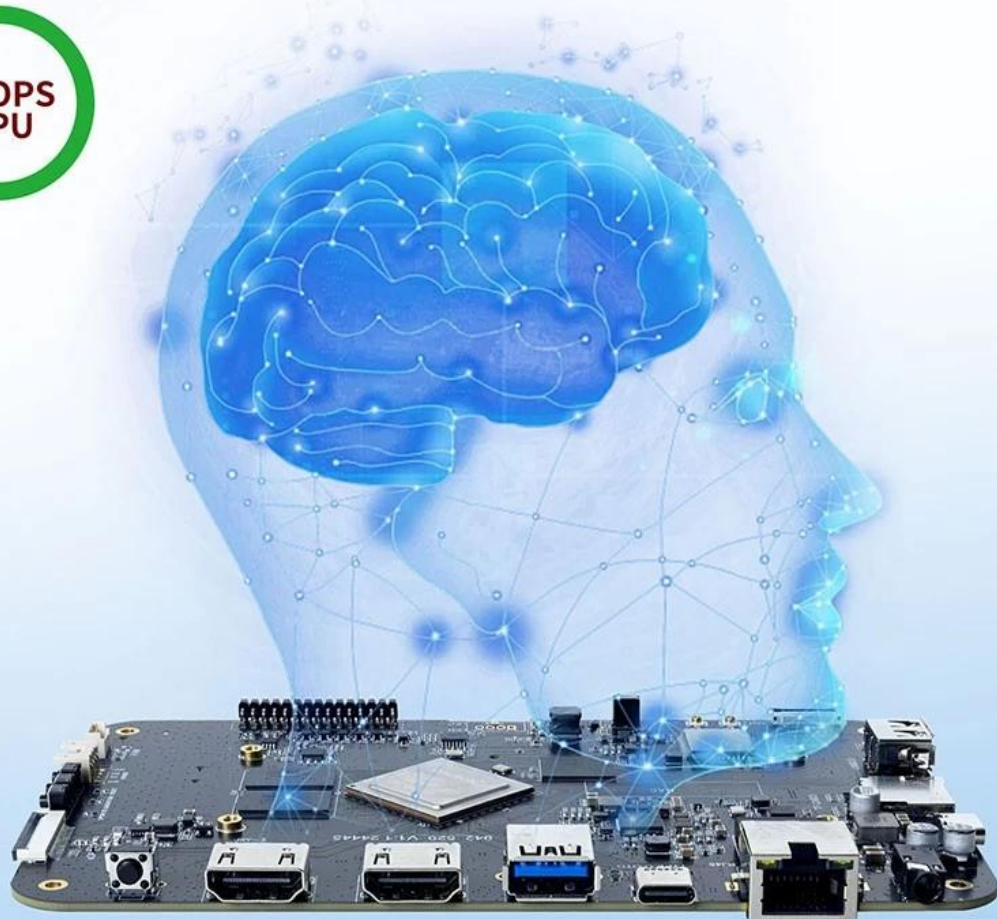
8K Video Encoding & Decoding

Supports 8K@60fps H.265/VP9 decoding and 8K@30fps H.265/H.264 encoding, with up to 32x 1080P@30fps decoding and 16x 1080P@30fps encoding. Delivers stunning 8K video quality.

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.

RAM
eMMC
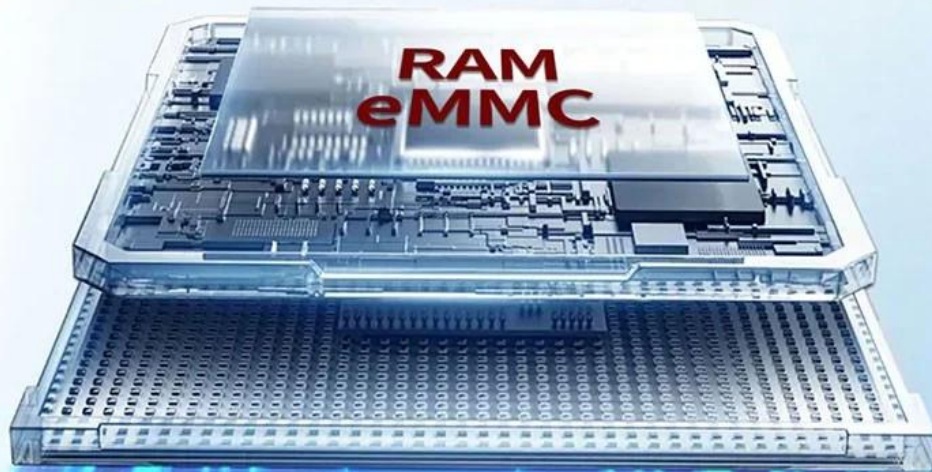
32GB
128GB

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.
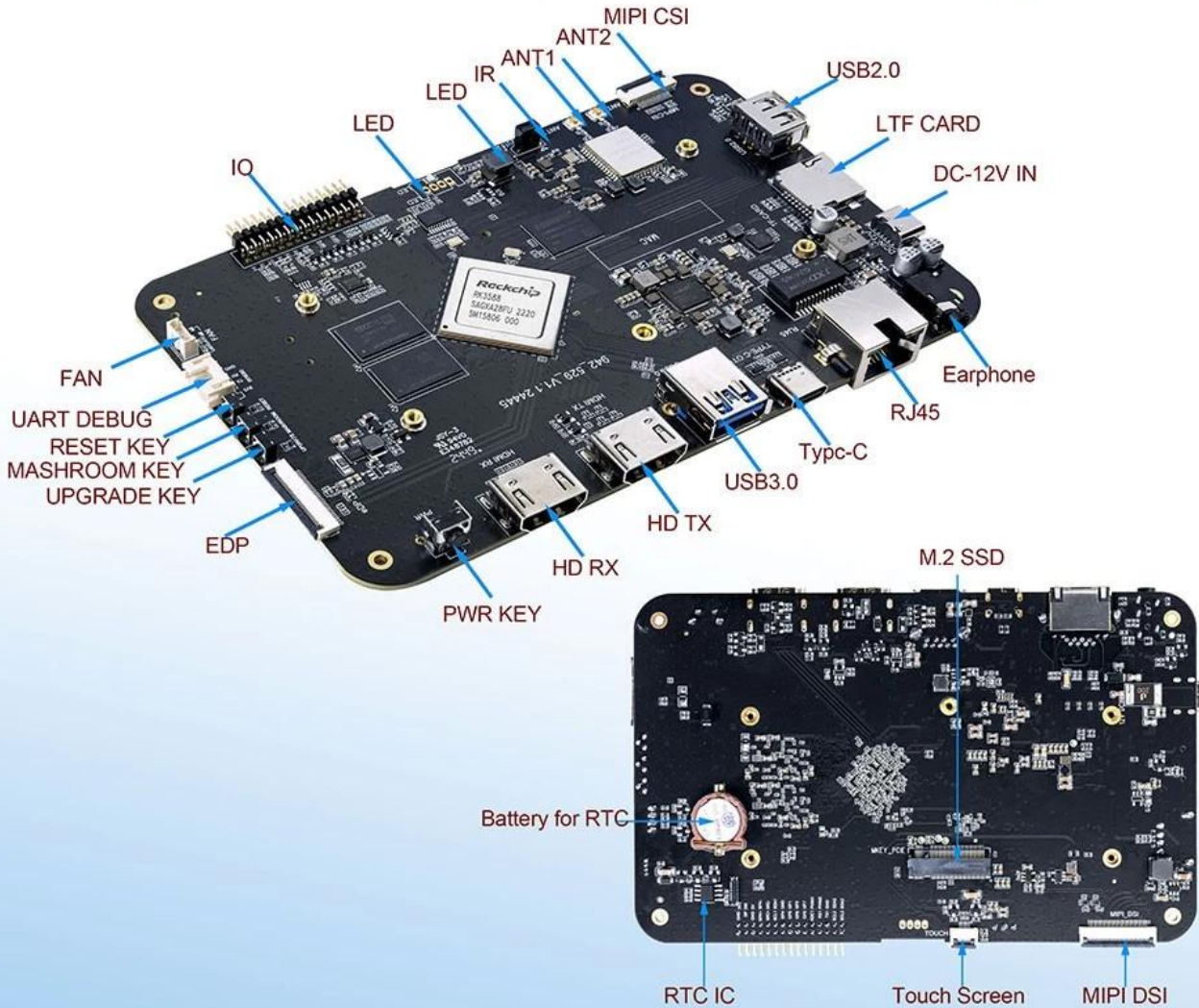
Powerful Network

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.

WiFi

AP6275P
C116408F
2217

LAN

BT5.x

WiFi 6
WiFi 6

1000M LAN

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.

□□ □□

*CPU□ RK3588 □□□□ ARM □□□□(Quad Core Cortex-A76 □ Quad Core Cortex-A55)□□ □□ □ □□□□□ □□ 2.4GHz□□□. □□ □□ Mali-G610 GPU□ □□□□□ □□□ NPU □□□□ □□□ □□□ □□□□□ 6TOP□ □□□□□.

*□□ □□: 8nm LP.

*□□□□ LCD □□ □□□□□□: 4□□ MIPI, □□ □□ EDP.

*I2C □□□□□□□ □□□□ □□□□□.

*□□ □□□□□ □□□□□ TF □□ □□ PCIE □□□□□□ □□□□□.

*□□ □□ □ □□ □□, □□ □□ UART □□ □□ □ □□ □ □□□ 7□□ GPIO□ □□□□□.

*□□□□□□ 12 OS □□

□□□□ **Rockchip RK3588** □□ □□ **CPU, 4GB RAM □ 32GB ROM**□ □□□□ **8K** □□□□ **HD** □□□□□ □□□□ □□□□□ □□□□□ □□□□ □□□□□ □□□□□□□□ □□□□□□□□. □□□□ □□□□□□□ □□□□ □□□□□ □□□□□□□□ □□□□ □ □□□□ □□□□□ □□□□□, □□ □ □□ □□□□□□□□□ □□□□□.

□□□□ **Rockchip RK3588** □□ □□ **CPU**

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□ 4개의 Cortex-A55 CPU. 또한 **Mali-G610 MP4 GPU** 8K .

강력한 메모리와 저장 공간

□□. **4GB RAM**, . 또한 **32GB ROM** 은, 미디어, □□. 이 □□□.

멋진한 **8K Ultra HD** 비디오
□ **8K 해상도 HD** 경험을, . **HDR10** 지원, , □ , □□ .

AI □□ 지원
Rockchip RK3588, , AI 기능을 지원합니다. , □□□ □ AI .

□□ **Android OS**
□□□□, □□에 Google Play □ . □□ □□□□□□ □□□□□□□ .

□□ 인터□□
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- □□□□□ **6** 빠르게 □□□□
- □□□□□ **5.0** 지원을 □
- **HDMI 2.1** □
- **USB-C** □ **USB 3.0** □□

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이 □□□는 □□□□□□ □□□□□□□□.

- □ □□□□□□□: 8K □□□로 □□□□□□□, □□□□ , .
- □□: □□□□ □□□□□□는 제공합니다.
- 여러분 □□□□: □□□□ □ □□□를 □□□로 위한 □□□ □□□□□.
- □□□□□ □□: □□ □□, □□□□□□□, □□□□ 같은 □□□를 □□□□□□.
- **AI** □□: AI □□□□□□ □□ □□□□ □□□□□□.

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□□□□ **8K Ultra HD** [□□□□□□ □□□□ □□□□□□](#) □□□□ □□, □□ □□ □ □□□□ □□ □□□□□□ □□□□□□□. □□ □□□□, □□□□, □□□□□ □□□□ □□□□ □ □□□□□□
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