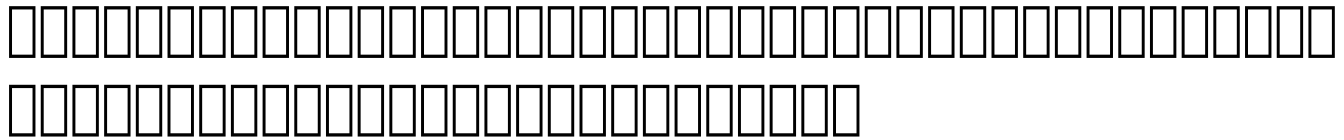


Rockchip RK3588:



Product Overview

Product Name	Rockchip RK3588
Processor	Rockchip RK3588 8 cores, 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
2D Accelerator	2D Accelerator
Cache	6 L2 Cache (int4/int8/int16/FP16/BF16/TF32)
Memory	4GB/8GB (64 channels LPDDR4/LPDDR4x)
Storage	32G/64G/128G/256G (eMMC5.0/ 5.1)
Network	IEEE 802.11a/b/g/n/ac/6E
Connectivity	Wi-Fi6 2.4GHz/5.8GHz (PCIe v3.0)
Video	2T2R
OS	Android 12
IO	5.0

Video Performance

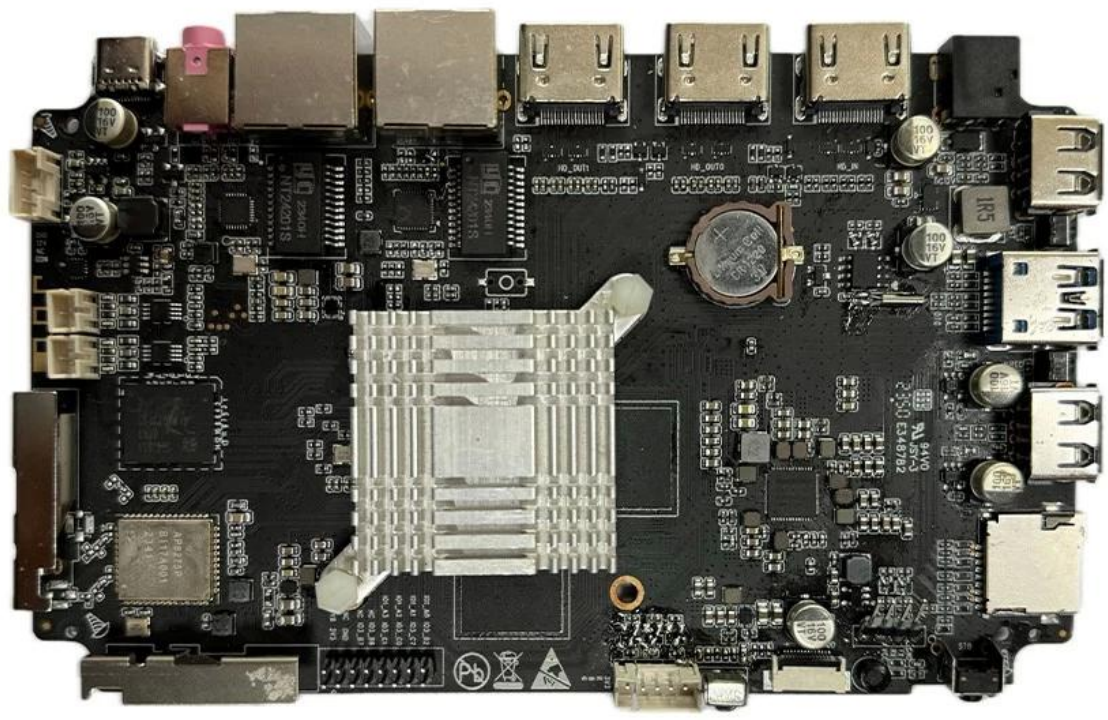
Video Codec	MPEG-1,MPEG-2,MPEG-4,H.263,H.264,H.265,VC-1,VP9,VP8 MVC,AV1
MMU	MMU
Video Resolution	H.264 AVC/MVC Main10 L6.0 : 8K@30fps (7680x4320)
Video Resolution	VP9/2 L6.1 : 8K@60fps (7680x4320)
Video Resolution	H.265 HEVC/MVC Main10 L6.1 : 8K@60fps (7680x4320)
Video Resolution	AVS2 Profile0/2 L10.2.6 : 8K@60fps (7680x4320)
Video Resolution	AV1 Profile0/2 8/10 L5.3 : 4K@60fps (3840x2160)
Video Resolution	MPEG-2 Profile MP : 1080p@60fps (1920x1088)
Video Resolution	MPEG-1 Profile MP : 1080p@60fps (1920x1088)
Video Resolution	VC-1 Profile AP : 1080p@60fps (1920x1088)
Video Resolution	VP8 Profile 2 : 1080p@60fps (1920x1088)

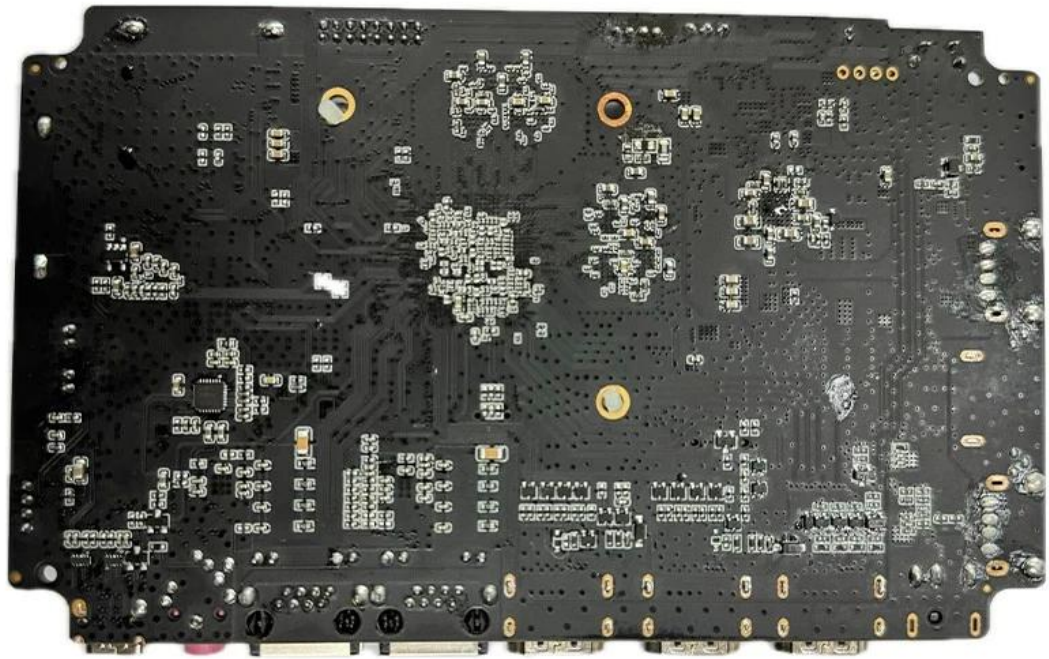
Video Resolution	H.265/H.264 8K@30fps
Video Resolution	ISP 16M HDR&3DNR
Video Resolution	I2S0 8 channels
Video Resolution	8 TX 8 RX
Video Resolution	16 channels 32 channels
Video Resolution	192KHz

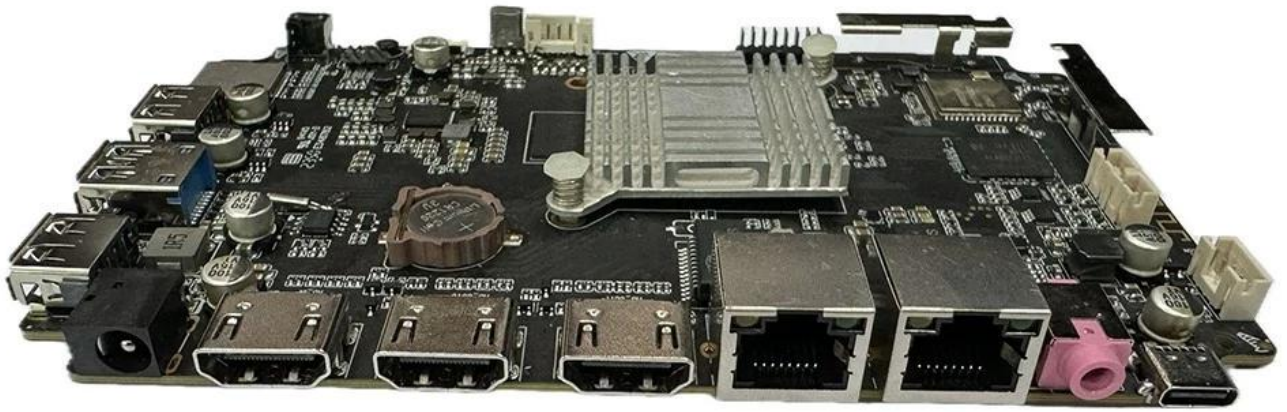
Video Resolution	3 channels I2S (early, late1, late2)
Video Resolution	4 channels PCM (early, late1, late2, late3)
Video Resolution	TDM 1/2 channels, 1 channel, 2 channels
Video Resolution	I2S, PCM, TDM

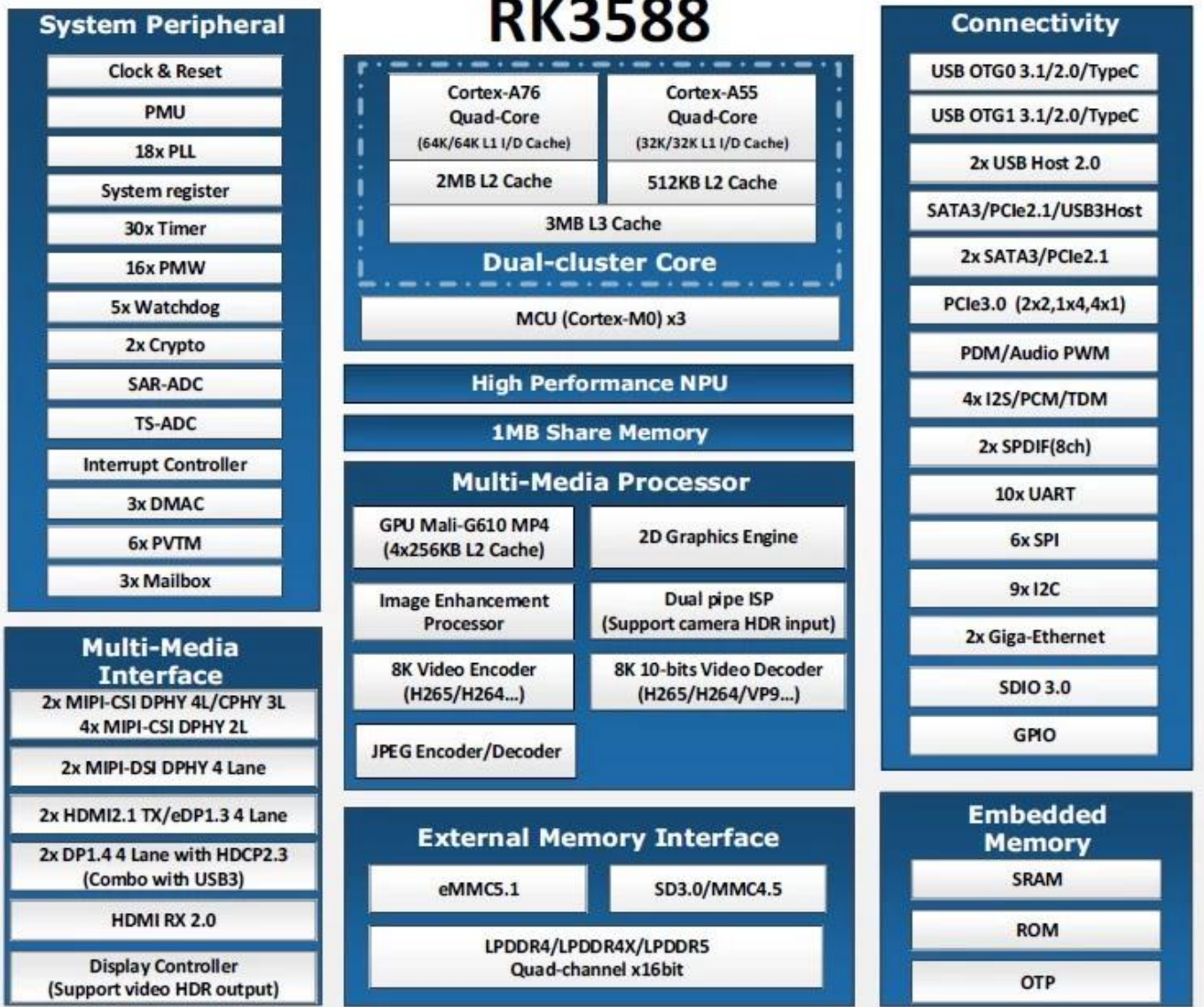
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□□□□□□□□□□□□□□ DC 12V/2A □□□□□□□□□□: □□□□□
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HDMI HDMI OUT 1: HDMI 2.1/7680x4320@60Hz
HDMI OUT 2: HDMI 2.1/4096x2304@60Hz
HDMI IN: HDMI 2.0/HDMI 1.4b □□□□□□□□□□□□ 4K x 2K (3840x
2160p@24Hz/25Hz/30Hz □□□ 4096x2160p@24Hz)
□□□□□ □□□□□ 1*3.5 □□
□□□□□□□□□□□□ □□□□□□□□□□□□ 1:1*1000M(RGMII)
□□□□□□□□□□□□ 2:1*1000M
□□□□ TF 1 * □□□□ TF
□□□□ USB 2*□□□□□□□□ 2.0 (□□□□□□)
1 * USB3.0 (□□□□□□)
□□□□□□-C 1 * □□□□□□□□□□□□□□□□ Type C 3.0 (□□□□□□□□□□□□□□)









Typical Application Diagram – AIoT





Rockchip RK3588

Rockchip RK3588 Octa Core
 8K Ultra HD
 4GB RAM
 Android 12

Rockchip RK3588

Rockchip RK3588 Octa Core
 8K Ultra HD
 4GB RAM
 Android 12

8K Ultra HD

Rockchip RK3588
 8K Ultra HD
 8K
 RK3588
 8K

Android 12

RK3588 Android 12
 Android 12
 Google Play Store
 Netflix Amazon Prime Video
 Android 12

WiFi 6: [\[Link\]](#)

Rockchip RK3588
WiFi 6
8K
WiFi 6

[Link]

Rockchip RK3588
USB, HDMI 2.1, Bluetooth
8K
WiFi 6

[Link]

Rockchip RK3588 [\[Link\]](#)
Octa Core, 8K Ultra HD, Android 12
WiFi 6
Rockchip RK3588
Rockchip RK3588