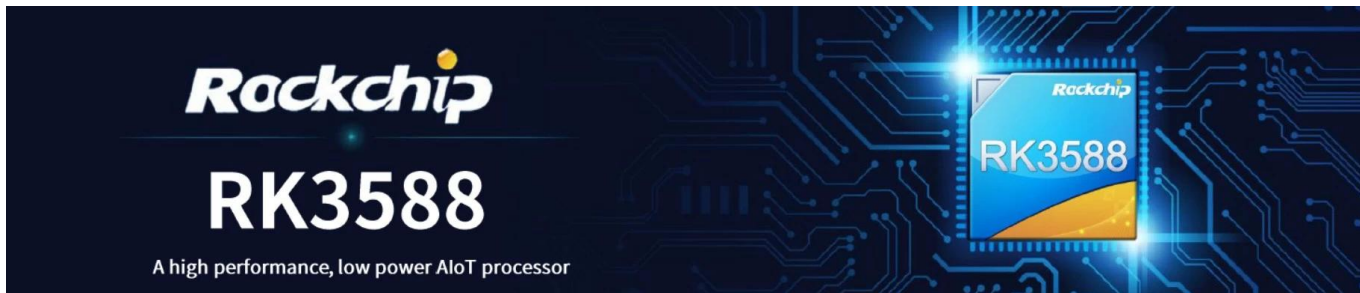


Rockchip RK3588 Octa Core Media Player

Rockchip RK3588 Octa Core Media Player



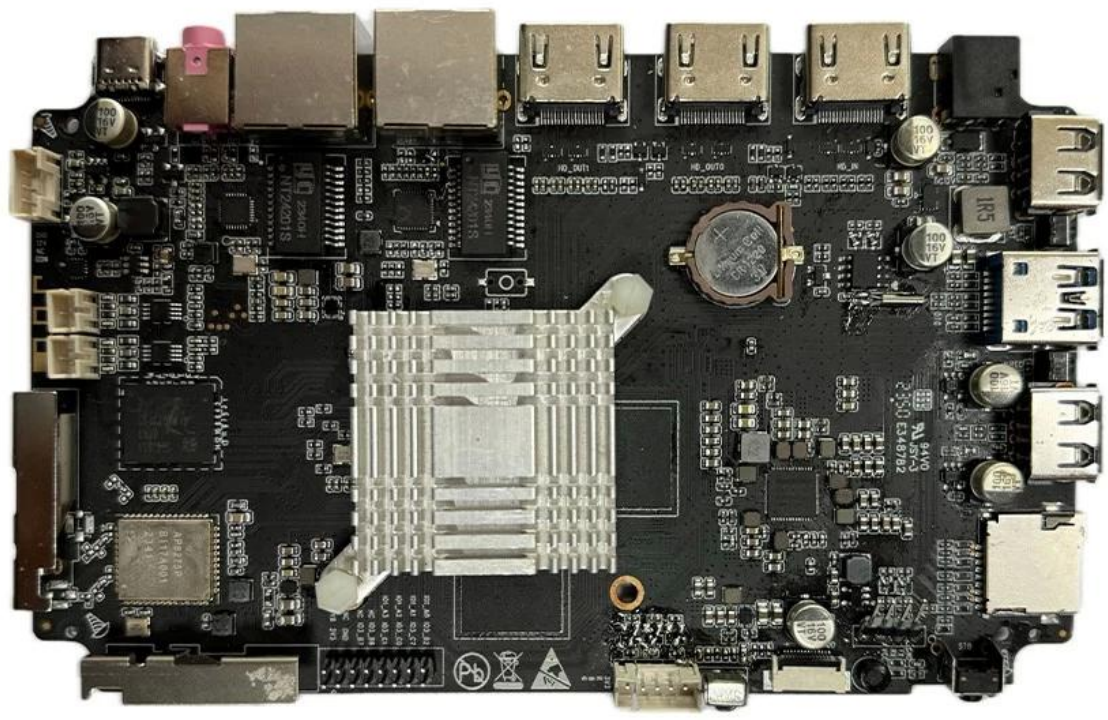
Rockchip RK3588 Processor Overview

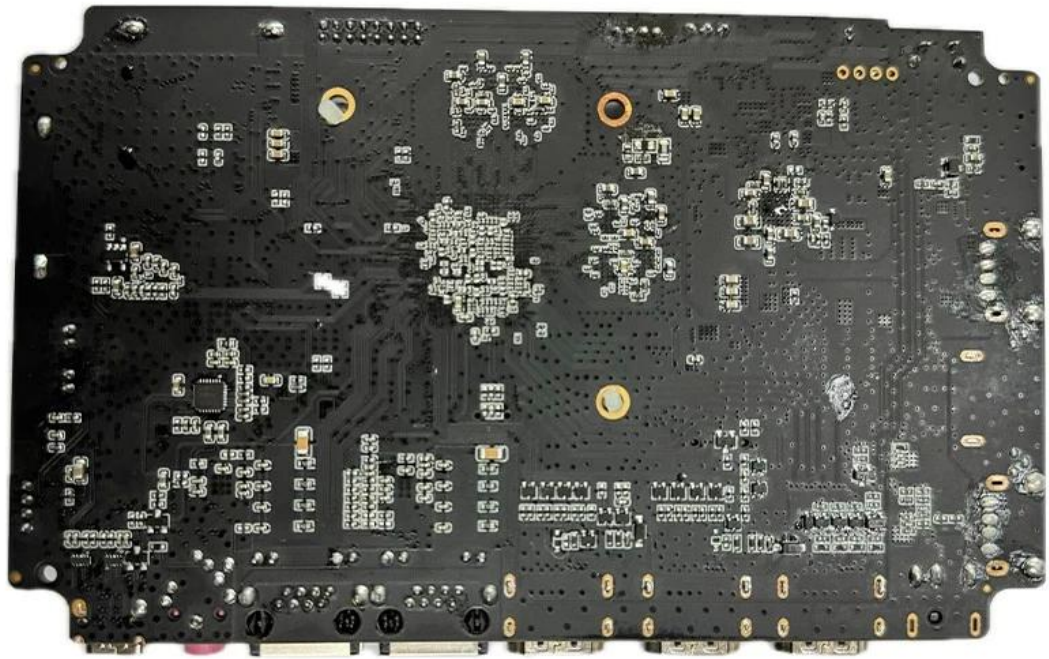
Processor	Rockchip RK3588
CPU	Rockchip RK3588 8 Quad-Core Cortex-A76 Quad-Core Cortex-A55
GPU	ARM Mali-G610 MC4 OpenGL ES 1.1/2.0/3.1/3.2 Vulkan 1.1, 1.2 OpenCL 1.1,1.2,2.0
AI	2D/3D/ISP
IO	6 (int4/int8/int16/FP16/BF16/TF32)
Memory	4GB/8GB (64 LPDDR4/LPDDR4x)
Storage	32G/64G/128G/256G (eMMC5.0/ 5.1)
Network	IEEE 802.11a/b/g/n/ac/Wi-Fi6
Connectivity	Wi-Fi6 2.4GHz/5.8GHz (PCIe v3.0)
OS	Android 12
Security	TrustZone 5.0

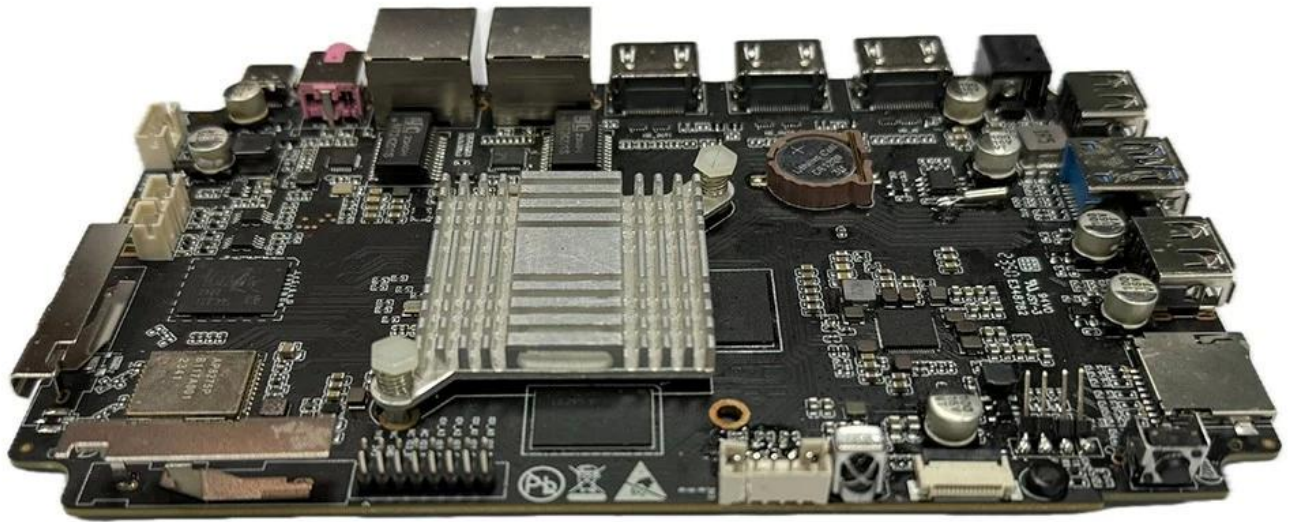
Media Processing Capabilities

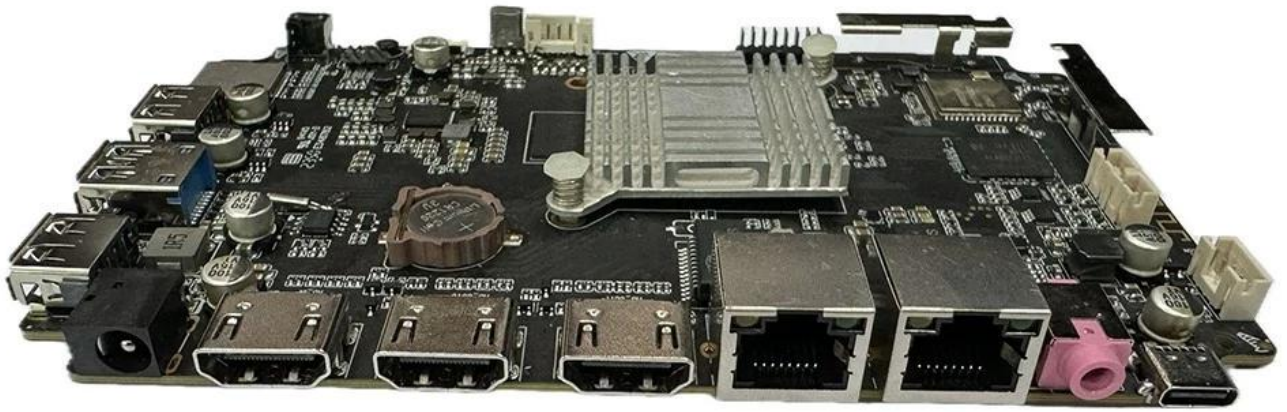
Video Decode	MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP9, VP8 MVC, AV1
Video Encode	H.264 AVC/MVC Main10 L6.0 : 8K@30fps (7680x4320)
Video Encode	VP9/2 L6.1 : 8K@60fps (7680x4320)
Video Encode	H.265 HEVC/MVC Main10 L6.1 : 8K@60fps (7680x4320)
Video Encode	AVS2 Profile0/2 L10.2.6 : 8K@60fps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

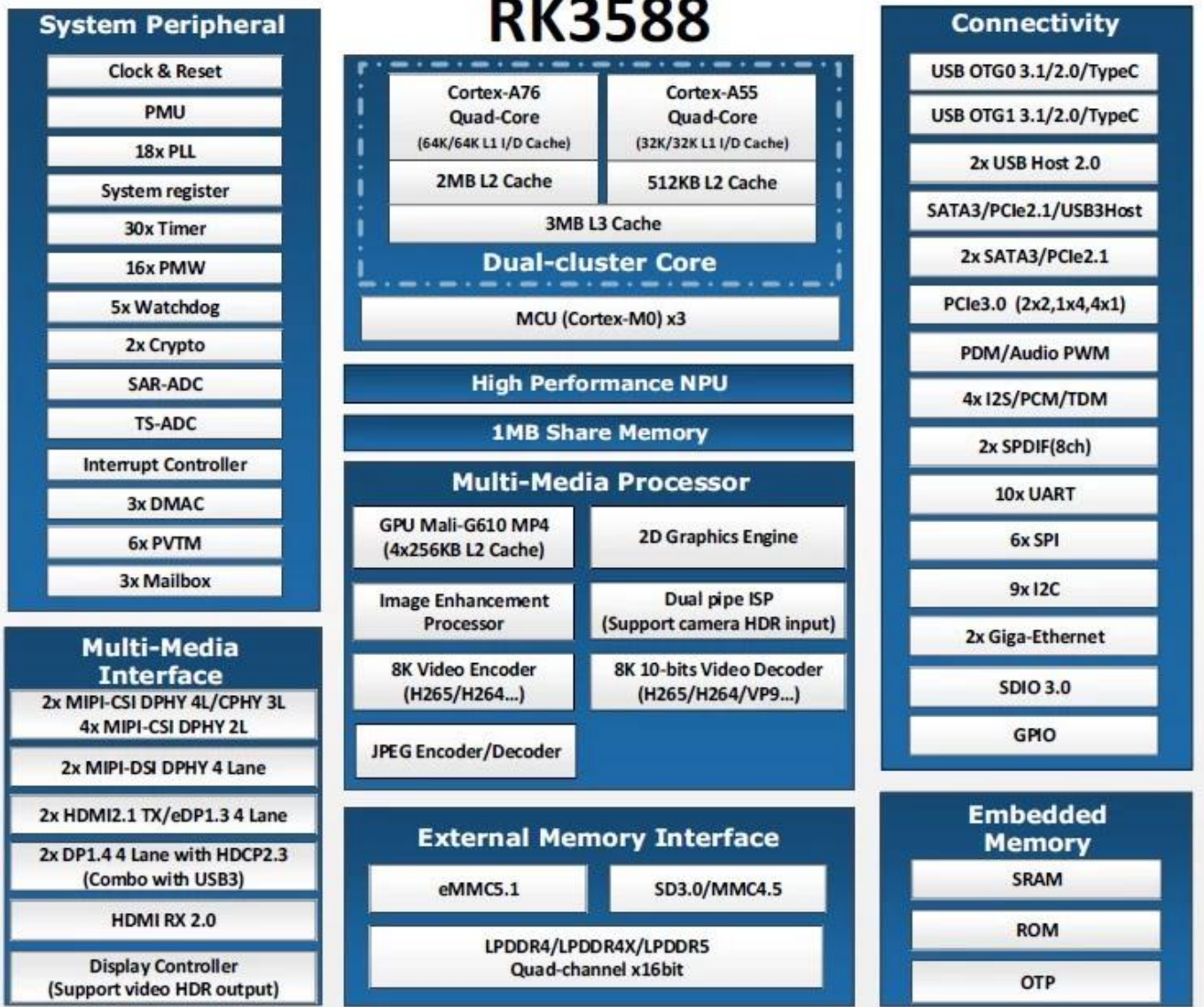
Additional Features











Typical Application Diagram – AIoT



WiFi 6

RK3588 Media Player WiFi 6 8K WiFi 6

RK3588 Media Player USB, HDMI 2.1, Bluetooth

Rockchip RK3588 Octa Core Media Player 8K Ultra HD, Android 12, WiFi 6