

Rockchip RK3588 8K Android 12 OTT



Product Overview

Processor	Rockchip RK3588 8nm Cortex-A76 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 Performance	6 TOPS int4/int8/int16/FP16/BF16/TF32
Memory	4GB/8GB LPDDR4/LPDDR4x
Storage	32G/64G/128G/256G eMMC5.0/5.1
Connectivity	IEEE 802.11a/b/g/n/ac/ax Wi-Fi6 2.4GHz/5.8GHz PCIe v3.0
Security	2T2R
OS	Android 12
IO	5.0

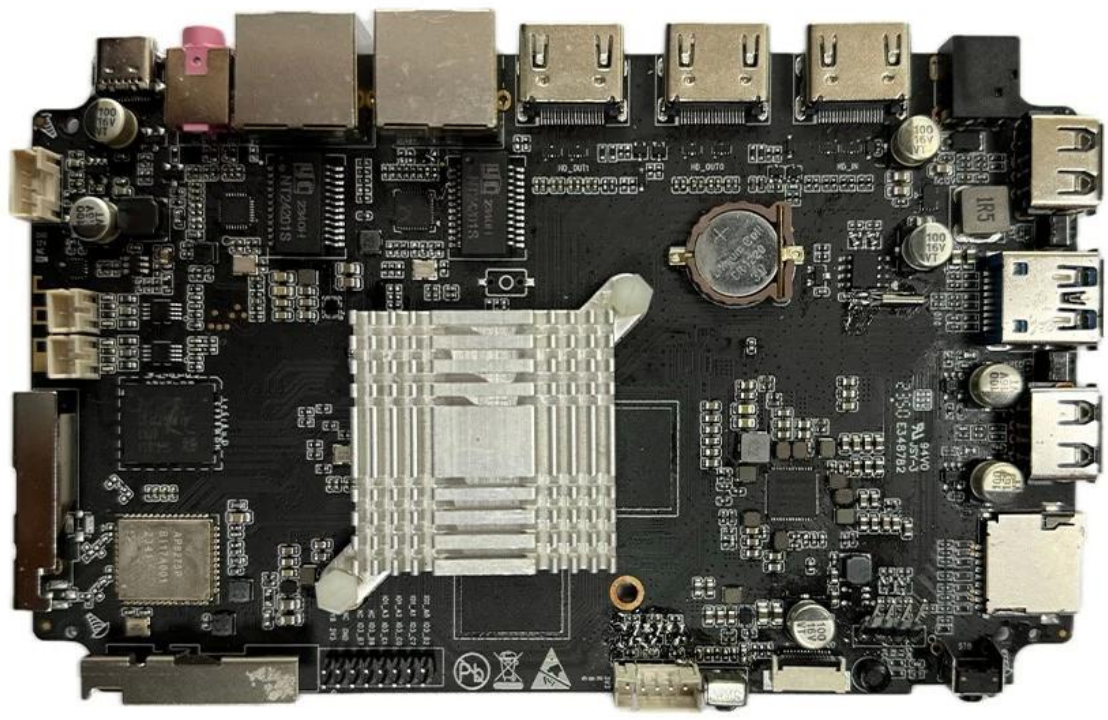
Video Capabilities

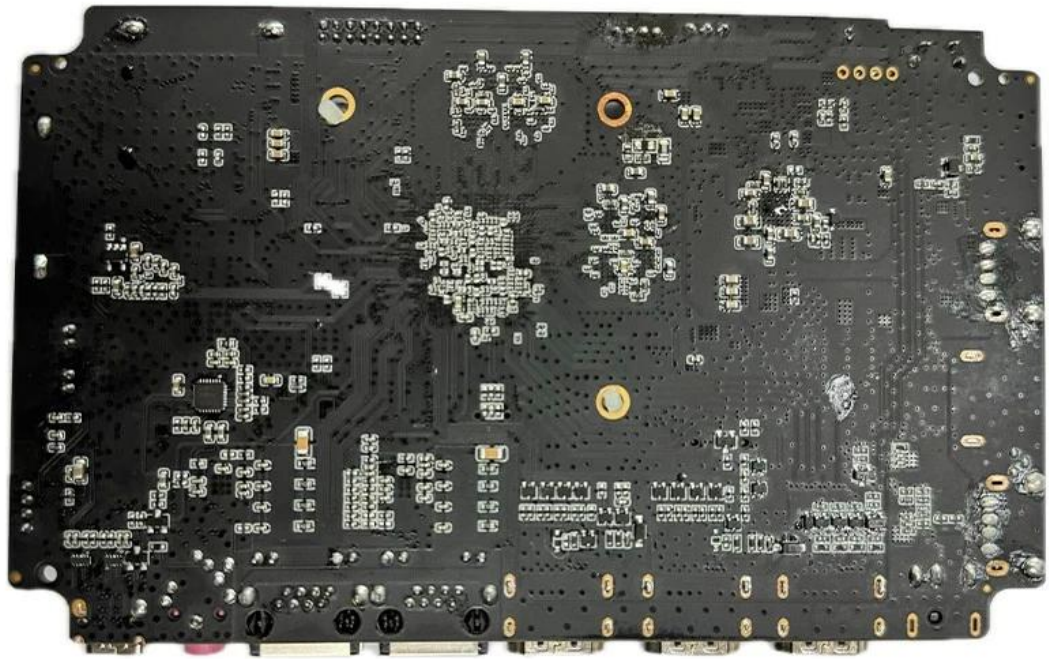
Video Decoding	* MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP9, VP8 MVC, AV1
Video Encoding	* H.264 AVC/MVC Main10 L6.0 8K@30fps (7680x4320) * VP9 Profile0/2 L6.1 8K@60fps (7680x4320) * H.265 HEVC/MVC Main10 L6.1 8K@60fps (7680x4320) * AVS2 Profile0/2 L10.2.6 8K@60fps (7680x4320) * AV1 8/10bit L5.3 4K@60fps (3840x2160)
ISP	* MPEG-2 MP 1080p@60fps (1920x1088) * MPEG-1 MP 1080p@60fps (1920x1088) * VC-1 AP 3 1080p@60fps (1920x1088) * VP8 2 1080p@60fps (1920x1088) * H.265/H.264 8K@30fps * 1600 ISP HDR&3DNR
Audio	I2S 8 TX 8 RX * 16 32 * 192KHz * 3 I2S * 4 PCM early late1 late2 late3 * TDM 1/2 1 2 * I2S PCM TDM

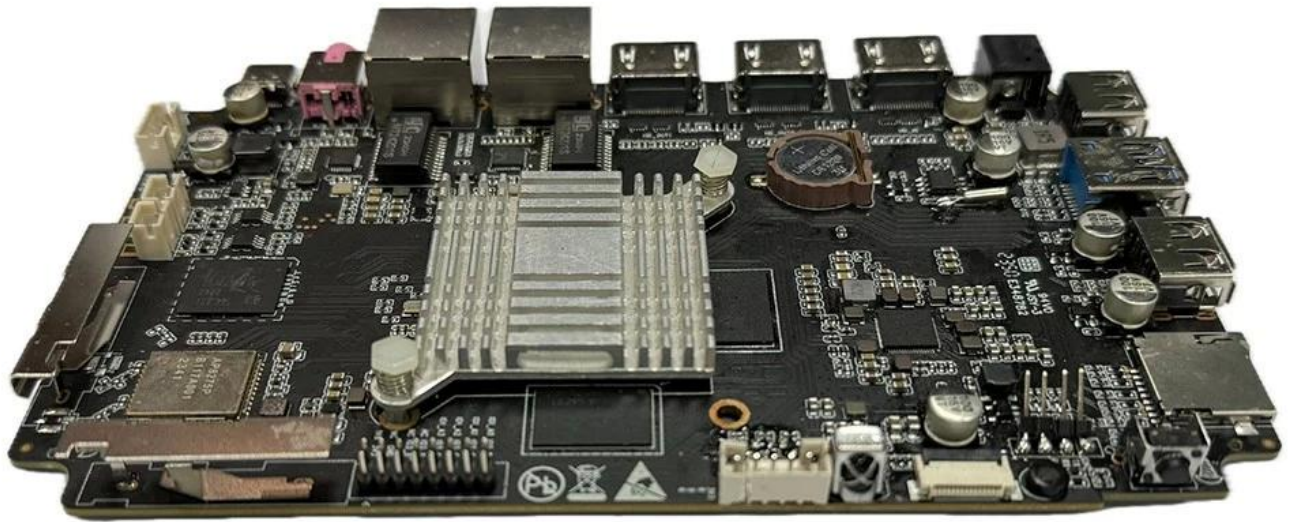
Power Management

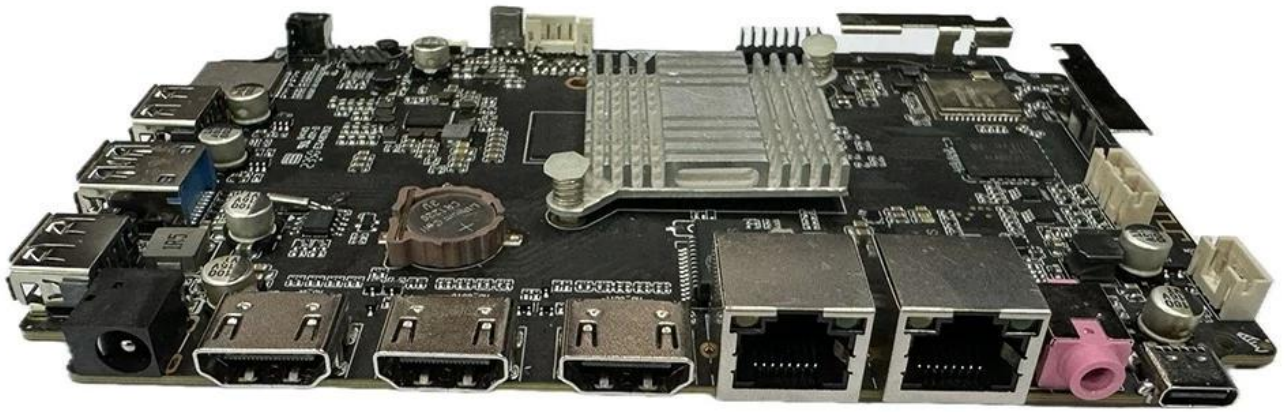
Power Input	DC 12V/2A
Power Output	

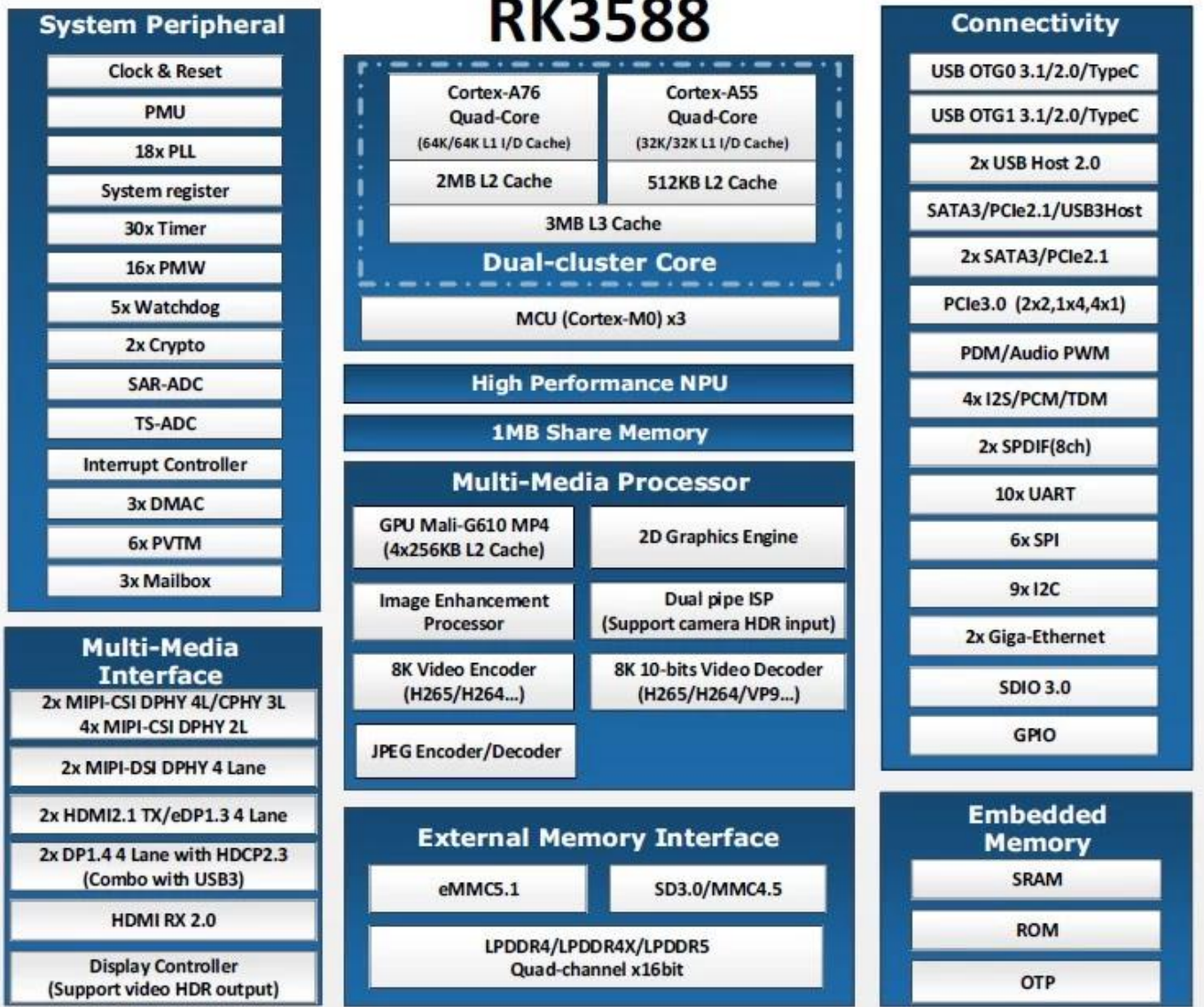
BT	BT
HDMI	HDMI 1 HDMI 2.1/7680x4320@60Hz HDMI 2 HDMI 2.1/4096x2304@60Hz HDMI HDMI 2.0/HDMI 1.4b 4K x 2K 3840x 2160p@24Hz/25Hz/30Hz 4096x2160p@24Hz
	1*3.5mm
	1*1000M(RGMII)
	2*1000M
TF	1*TF
USB	2*USB 2.0 1*USB3.0
C	1*Type C 3.0











Typical Application Diagram – AIoT



