

LS-RK3588 LoopSign Player



Specifications

Basic Specifications

SOC	RockChip RK3588
CPU	8-core 64-bit (4xCortex-A76+4xCortex-A55) , 8nm lithography process, frequency up to 2.4GHz
GPU	ARM Mali-G610 MP4 quad-core GPU Supports OpenGL ES3.2 / OpenCL 2.2 / Vulkan1.1, 450 GFLOPS
NPU	NPU computing power is up to 6 TOPS, Supports INT4/INT8/INT16 mixed operation, Supports framework switching of TensorFlow / MXNet / PyTorch / Caffe / etc.
ISP	Integrated 48MP ISP with HDR&3DNR
VPU	Video decoding: 8K@60fps H.265/VP9/AVS2 8K@30fps H.264 AVC/MVC 4K@60fps AV1 1080P@60fps MPEG-2/-1/VC-1/VP8 Video encoding: 8K@30fps encoding, Supports H.265 / H.264 * Achieves up to 32-channel 1080P@30fps decoding and 16-channel 1080P@30fps encoding
RAM	4GB 64bit LPDDR4
Storage	32GB emmc

Hardware Specifications

Wireless	2.4GHz/5GHz dual-band WiFi6, Bluetooth 5.0
Ethernet	1 × GbE (RJ45)
Display	Video output: 2 × HDMI2.1 (8K@60fps or 4K@120fps) Video input: 1 × HDMI-IN (4K@60fps) , Supports HDCP 2.3 * Supports multi-channel 8K video output and 4K video input, up to four-screen output with different displays
Audio	Audio output: 1 × Speaker output 2 × HDMI audio output Audio input: 1 × HDMI audio input
USB	1 × USB3.0 (Limit 1A) 1 × USB-C (USB3.0) (Limit 2A) 2 × USB2.0 (3 of them are pins) (Limit 500mA)
Power	Power supply ways: DC12V input (DC5.5×2.1mm)

OS/Software

OS	Linux: Ubuntu Desktop, LoopSign edition
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General

Size	
Heat Dissipation	Heat sink installation hole pitch: 45mm - FANLESS
Power Consumption	Idle: ≈1.35W (12V/110mA), Typical: ≈4.8W (12V/400mA), Max: ≈12W (12V/1000mA)
Environment	Operating Temperature: -20°C to +60°C,