

Specifications

Basic Specifications	
SOC	RockChip RK3588
CPU	8-core 64-bit (4×Cortex-A76+4×Cortex-A55), 8nm lithography process, frequency up to 2.4GHz
GPU	ARM Mali-G610 MP4 quad-core GPU Support OpenGL ES3.2 / OpenCL 2.2 / Vulkan1.1, 450 GFLOPS
NPU	NPU computing power up to 6 TOPS, Support INT4/INT8/INT16 mixed operation, Support framework switching of TensorFlow / MXNet / PyTorch / Caffe
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, support H.265 / H.264 Achieve up to 32-channel 1080P@30fps decoding and 16-channel 1080P@30fps encoding
RAM	4GB/8GB/16GB 64bit LPDDR4/LPDDR4x/LPDDR5 (Up to 32GB optional)
Storage	16GB/32GB/64GB/128GB eMMC
Storage Expansion	1 × M.2 SATA3.0, can expand with one 2242 (SATA3.0) SSD 4 × standard SATA3.0, can expand with two SATA3.0 SSD/HDD 1 × TF Card Card
Hardware Specifications	
Wireless	2.4GHz/5GHz dual-band WiFi6, Bluetooth 5.0, support 5G/4G LTE expansion
Ethernet	2 × 1000Mbps Ethernet (RJ45) * One of them supports POE power supply and max output is 60w (optional)
Display	Video output: 1 × HDMI2.1 (8K@60fps or 4K@120fps) 1 × HDMI2.0 (4K@60fps) 1 × DP1.4 (8K@30fps, USB-C multi-function interface output) 1 × VGA (1080P@60fps) Video input: 1 × HDMI-IN (4K@60fps), support HDCP 2.3
Audio	Audio output: 1 × Phone output 2 × HDMI audio output 1 × DP1.4 audio output Audio input: 1 × Line-In input 1 × MIC input 1 × HDMI audio input
USB	4 × USB3.0 (Limit 1A) 1 × USB-C multi-function interface (USB3.0 OTG / DP1.4) (Limit 2A) 2 × USB2.0 (Limit 500mA)

Power	DC12V voltage input (DC5.5×2.1mm)
Button	1 × Power Button
OS/Software	
OS	<p>Android: Android 12.0</p> <p>Linux: Ubuntu Desktop, Ubuntu Server, Debian11, Buildroot, RTLinux</p> <p>Kylin Linux, UOS, etc.</p> <p>Supports UEFI Boot</p>
General	
Case	20(L) * 20(W) * 8.5(H) cm (including rubber feet),metal brushed enclosure
Weight	≈1.3kg (no peripheral devices)
Power Consumption	<p>Idle: ≈1.35W (12V/110mA)</p> <p>Typical: ≈4.8W (12V/400mA)</p> <p>Max: ≈20W (12V/1700mA)</p>
Environment	<p>Operating Temperature: -20°C- 60°C</p> <p>Storage Temperature: -20°C- 70°C</p> <p>Storage Humidity: 10% ~ 80 %</p>