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Basic Parameters

CPU	Rockchip RK3588S Quad-core ARM 64-bit CPU 4*Cortex-A76@2.2GHz + 4*Cortex-A55@1.8GHz 8nm process
GPU	ARM Mali-G610 MC4 OpenGL ES 1.1/2.0/3.1/3.2 OpenCL 1.1/1.2/2.0 Vulkan 1.1/1.2, High performance 2D image acceleration
NPU	Triple-core NPU, 6 TOPS Performance Support int4/int8/int16/FP16/BF16/TF32 acceleration Enable various AI applications

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: H.265/H.264 Support 32 channels of 1080P@30fps decoding and 16 channels of 1080P@30fps encoding at the same time
DDR	LPDDR4X 8GB (option: 4/16/32GB) 2133MHz, 64-bit
eMMC5.1	128GB (option: 64/256/512GB) MicroSD (TF) Card Slot
USB	2*USB 3.0 Host 2*USB 2.0 Host
HDMI	HDMI2.1 (8K@60fps or 4K@120fps)
Wireless	WiFi-6 2.4/5 IEEE802.11 a/b/g/n/ac/ax Bluetooth 5.0 BLE 2.4Ghz and 5Ghz band channels, 1T1R
Ethernet	2*1000Mbps RJ45 Ethernet
Audio	1*3.5mm headphone jack (support stereo output + MIC input)
RTC	Support rechargeable button batteries
Power Supply	DC-12V(Phoenix terminal with screw spacing 3.81mm)
OS	Linux 5.10 (option:Linux6.10) Android15/Ubuntu24.04/Debian12
Dimensions	136 x75 x 38mm
Weight	386.5g
Power Consumption	Idle: ~1.35W (12V/110mA) Typical: ~4.8W (12V/400mA) Maximum: ~15W (12V/1250mA)

External Interfaces	2×USB3.0 2×USB2.0 1×HDMI2.1 2×RJ45 (Gigabit Ethernet) 1×3.5mm headphone jack 3.81mm pitch fan terminal power interface 3×LED status indicators Illuminated power button
Environmental Conditions	Operating Temperature: 0°C ~ 80°C Storage Temperature: -20°C ~ 80°C Humidity: 10% ~ 90% (non-condensing)