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Basic Parameters

CPU	Rockchip RK3588 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	<p>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</p> <p>Video Encoding: 8K@30fps: H.265/H.264</p> <p>Support 32 channels of 1080P@30fps decoding and 16 channels of 1080P@30fps encoding at the same time</p>
DDR	8GB LPDDR4X 2133MHz, 64-bit (option: 4/16/32GB)
eMMC5.1	128GB (option: 64/256/512GB)
Storage	<p>PCIe3.0 M.2 slot inside, suport 2280 NVME SSD</p> <p>Mirco SD card slot inside, suport TF card storage expansion</p>
Panel	3.16-inch capacitive touch screen, resolution 820×320
USB	<p>2× Type-C (Full funtion:USB3.1-OTG,DP ALT,PD)</p> <p>1×USB3.0 Host</p> <p>1×USB2.0 Host</p>
HDMI	HDMI2.1 (8K@60fps or 4K@120fps)
Wireless	<p>WiFi-6 2.4/5 IEEE802.11 a/b/g/n/ac/ax</p> <p>Bluetooth 5.0 BLE</p> <p>2.4Ghz and 5Ghz band channels, 1T1R</p> <p>(option: M.2 slot inside,suport 2230 PCIe wireless module)</p>
Ethernet	1000Mbps RJ45
Audio	<p>3.5mm headphone jack with stereo audio output and mic input</p> <p>2× 8Ω/2W speakers inside</p>
RTC	CR1220 Lithium Battery, 3V/38mAh
Button	Capacitive touch power botton with red/green LEDs
Power Supply	Type-C PD 12V/2A
OS	<p>Linux 5.10 (option:Linux6.10)</p> <p>Android12/Ubuntu22.04/Debian11</p>
Dimensions	160mm × 160mm × 38mm
Weight	820g
Power Consumption	<p>Idle: 1.35W (12V/110mA)</p> <p>Typical: 4.8W (12V/400mA)</p> <p>Max: 20W (12V/1700mA)</p>

External Interfaces	2×Type-C 1×USB3.0 1×USB2.0 1×HDMI2.1 1×RJ45 1×3.5mm headphone jack
Environmental Conditions	Operating Temperature: 0°C ~ 60°C Storage Temperature: -40°C ~ 70°C Humidity: 10% ~ 90% (non-condensing)