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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)
Panel	1.47-inch screen, resolution 320×172
USB Ports	1×Type-C (Full funtion:USB3.1 -OTG,DP ALT,PD) 1×USB3.0 Host 1×USB2.0 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	1000Mbps RJ45
Audio	3.5mm headphone jack with stereo audio output and mic input 2× 8Ω/2W speakers inside
RTC	3V 3.4mAh, Lithium Rechargeable Battery
Button	Capacitive touch power botton with red/green LEDs
Power Supply	Type-C PD 12V/2A
OS	Linux 5.10 (option:Linux6.10) Android12/Ubuntu22.04/Debian11
Dimensions	95mm × 95mm × 26mm
Weight	300g
Power Consumption	Idle: 0.84W (12V/60mA) Typical: 4.2W (12V/360mA) Max: 18W (12V/1500mA)
External Interfaces	1×Type-C 1×USB3.0 1×USB2.0 1×HDMI2.1 1×RJ45 1000Mbps Ethernet 1×3.5mm headphone jack
Environmental Conditions	Operating Temperature: 0°C ~ 60°C Storage Temperature: -20°C ~ 70°C Humidity: 10% ~ 90% (non-condensing)