iTayga **Shenzhen Tianyue Zhichuang Technology Co., Ltd.**

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Basic Parameters

CPU	Rockchip RK3588S Quad core Cortex-A76 + Quad-core Cortex-A55 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	Tri-core NPU with 6 TOPS of computing power Supports int4/int8/int16/FP16/BF16/TF32 acceleration Supports a wide range of 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 Supports simultaneous decoding of 32 streams of 1080P@30fps and encoding of 16 streams of 1080P@30fps
DDR	LPDDR4X 8GB (option: 4 / 16 GB) 2133MHz, 64-bit
eMMC5.1	128GB (option: 64 / 256 GB) MicroSD (TF) card slot
USB	2*USB 3.0 Host 2*USB 2.0 Host
HDMI	HDMI2.1 (8K@60fps or 4K@120fps)
Wireless	Wi-Fi 6, 2.4/5GHz, IEEE 802.11 a/b/g/n/ac/ax Bluetooth 5.0 BLE Supports 2.4GHz and 5GHz bands, 1T1R
Ethernet	2× 1000Mbps RJ45 Ethernet ports
Audio	1× 3.5mm headset jack (supports stereo output and microphone input)
RTC	Supports a rechargeable coin-cell battery
Power Supply	DC 12V (3.81mm-pitch screw terminal)
OS	Linux 5.10 (optional: Linux 6.10) Android 15 / Ubuntu 24.04 / Debian 12
Dimensions	136 × 75 × 38mm
Weight	386.5g

Power Consumption	Idle: ~1.35W (12V/110mA) Typical: ~4.8W (12V/400mA) Maximum: ~15W (12V/1250mA)
External Interfaces	2× USB 3.0 2× USB 2.0 1× HDMI 2.1 2× RJ45 (Gigabit Ethernet) 1× 3.5mm headset jack 3.81mm-pitch terminal connector for fan power 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)