

Basic

SOC	RK3568
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, up to 2.0GHz
GPU	ARM G52 2EE Supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 Embedded high-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	Supports 4K@60fps H.265/H.264/VP9 video decoding Supports 1080P 60fps H.265/H.264 video encoding Supports 8M ISP, supports HDR
RAM	2GB / 4GB / 8GB LPDDR4
Storage	32GB / 64GB / 128GB eMMC
Extended Storage	1 × M.2 PCIe 3.0 NVMe SSD (2242 / 2280) 1 × SATA 3.0 SSD/HDD 1 × TF Card Slot

Hardware

Ethernet	2 × RJ45 (1000 Mbps) Supports POE+ (802.3 AT, 25W) power supply
Wireless	2.4GHz/5GHz dual-band WiFi, WiFi 6, 802.11 a/b/g/n/ac/ax, Bluetooth5.0 5G / 4G LTE (choose one of the two, M.2 to connect 5G, Mini PCIe to connect 4G LTE)
Display	1 × HDMI2.0, 4K@60fps 2 × MIPI DSI, 1920*1080@60fps (or dual-channel 1×MIPI DSI 2560*1440@60fps) 1 × eDP1.3 , 2560x1600@60fps * Supports up to three screen output with different display
Camera	2 × MIPI CSI (single channel 4Lane MIPI CSI or Dual channel 2Lane MIPI CSI)
Audio	1 × HDMI audio output 1 × phone output 1 × Microphone onboard audio input (without recording) 1 × Speaker output (10W 8Ω Class D)
USB	2 × USB3.0(max: 1A) 2 × USB 2.0 (max: 500mA) 2 × USB 2.0 HOST Socket (max: 500mA)
PCIe	1 × M.2 NGFF PCIe 3.0 (2Lane PCIe 3.0 support 2242 / 2280 NVMe SSD)
SATA	1 × SATA 3.0 (2.5寸 SATA SSD / HDD)
Extended Interface	2 × RS232 2 × RS485 2 × UART 2 × CANFD / CAN 1 × Debug 1 × TP 1 × FAN 1 × IR 3 × ADC 1 × Mic Socket 1 × Power (12V/5V/3V3/GND)
Power	DC12V (9V~24V Wide voltage input, The margin of error is ±5%)

System

System	Android 11.0 、 Ubuntu 18.04
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Others

Size	150.0mm × 103.8mm × 21.0mm
Heat Dissipation	Heat sink installation hole pitch: 45mm, matched heat sink is recommended (Click to See)
Temperature	Operating Temperature: -20°C ~ 60°C Storage Temperature: -20°C ~ 70°C Storage Humidity : 10% ~ 80 %
Power Consumption	Idle: 0.3W Normal: 4.8W Max: 7W



