

Specification



Basic Specifications

SOC	RockChip RK3566
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 1.8GHz
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 100fps H.265/H.264 video encoding Supports 8M ISP
RAM	2GB / 4GB / 8GB LPDDR4 32Bit, supports all-data-link ECC
Storage	32GB / 64GB / 128GB eMMC M.2 PCIe 2.0 x 1 (Expand with 2242 NVMe SSD) TF-Card Slot x1 (Expand with TF card)

Hardware Features

Ethernet	Supports Gigabit Ethernet (RJ45, 1000 Mbps)
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WIFI	Supports dual-band WiFi (802.11 a/b/g/n) Supports BT5.0
Display	1 × HDMI2.0. Supports 4K@60fps output 1 × MIPI DSI. Supports 1920*1080@60fps output (or dual-channel 1 × MIPI DSI 2560*1440@60fps)
Audio	1 × HDMI audio output 1 × Earphone output
Power	5V (Via Type-C port)
Interface	HDMI2.0, USB3.0, USB2.0, MIPI DSI, MIPI CSI, I2C, SPI, UART, ADC, PWM, GPIO, PCIe, I2S etc.
OS/Software	
OS	Supports Android 11.0, Ubuntu 18.04, Buildroot + QT, Station OS
General	
Size	93.8 mm × 65.0 mm × 15.8mm
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Storage Humidity	10% ~ 80 %