

## Basic Specifications

<b>SOC</b>	RockChip RK3566
<b>CPU</b>	Quad-core 64-bit Cortex-A55, 22nm lithography process, up to 1.8GHz
<b>GPU</b>	ARM G52 2EE GPU Supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 Embedded high-performance 2D acceleration hardware
<b>NPU</b>	Integrated RKNN NPU AI accelerator, 0.8Tops@INT8 Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
<b>VPU</b>	4K 60fps H.265/H.264/VP9 video decoding 1080P 100fps H.265/H.264 video encoding
<b>RAM</b>	1GB/2GB/4GB/8GB LPDDR4/LPDDR4X
<b>Storage</b>	16GB/32GB/64GB/128GB eMMC
<b>Storage Expansion</b>	Supports M.2 PCIe 2.1 NVMe SSD (2242/2260/2280) Supports SATA3.0 SSD/HDD Supports TF card

## Hardware Specifications

<b>Ethernet</b>	1×1000Mbps Ethernet (RJ45) Supports POE+ (802.3 AT, output power 25W)
<b>WiFi</b>	2.4GHz / 5GHz dual-band WiFi, 802.11a/b/g/n/ac Bluetooth5.0 Supports 4G LTE/3G
<b>Display</b>	1 × HDMI2.0, supports up to 4K@60fps output 2 × MIPI DSI, single/dual channel mode, up to 2560*1440@60fps output 1 × eDP1.3, supports up to 2560x1600@60fps output
<b>Audio</b>	1 × Phone audio output (3.5mm jack) 1 × HDMI audio output 2 × Speaker (1.3W/8Ω, 10W/8Ω) 2 × Mic audio input (3.5mm jack, 2P/1.25mm Wafer socket)
<b>Camera</b>	MIPI-CSI (4-channel), supports 2-channel input, built-in 8M ISP, Supports single-lens 8M camera / dual-lens 2M camera
<b>USB</b>	4 × USB2.0 (Max: 500mA) 1 × USB3.0 (Max: 1000mA) 1 × USB-C (OTG)
<b>Interface</b>	1×TP, 1×I2C, 1×UART, 1×RS232, 1×RS485, 1×GPIO, 1×SPI, 1×IR, 1× Debug, 1×PowerKey, 1×Reset, 1×KEY (ADC/REC/RST), 1×Fan (12V/3P/1.25mm), 1×DC-OUT (12V/5V/3.3V), 1×DC-IN (12V/Wafer)

## OS / Software

<b>OS</b>	Supports Android, Ubuntu, Buildroot+QT, OpenWRT, Debian, etc.
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## General

<b>Size</b>	139mm × 101.5mm
<b>Heat Dissipation</b>	Heat sink installation hole pitch: 45mm, matched heat sink is recommended (Click to See)
<b>Power Consumption</b>	Idle: 0.075W Normal: 2.8W Max: 4.6W
<b>Environment</b>	Operating Temperature: -20°C-60°C, Storage Temperature: -20°C-70°C, Storage Humidity: 10%-80%



