

## 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
<b>Storage</b>	8GB/16GB/32GB/64GB/128GB eMMC

## Hardware Specifications

<b>Ethernet</b>	Integrated GMAC Ethernet controller, supports 1000Mbps Ethernet (RJ45)
<b>Wireless</b>	Extend to WiFi+Bluetooth combo module through SDIO interface: -Supports 2.4GHz / 5GHz dual-band WiFi, 802.11a/b/g/n/ac protocol -Supports Bluetooth5.0 Supports extended 4G LTE/3G wireless network
<b>Display</b>	1 × HDMI2.0, supports up to 4K@60fps output 2 × MIPI DSI, supports single/dual channel mode, supports up to 2560*1440@60fps output 1 × eDP1.3, supports up to 2560x1600@60fps output
<b>Audio</b>	1 × I2S (8-channel input and output), 2 x I2S (2-channel input and output) , 1 x I2S (HDMI)
<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>	USB2.0×5、USB3.0×1
<b>PCIe</b>	PCIe 2.1
<b>SATA</b>	SATA3.0
<b>Interface</b>	UART×10、I2C×6、ADC×4、PWM×15、GPIO×118、I2S×4、SPEAK×1、HPOUT×1

## OS / Software

<b>OS</b>	Android、Ubuntu、Buildroot+QT、OpenWRT、Debian
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## General

<b>Interface Type</b>	Gold Finger (SODIMM 260P standard interface, 0.5mm pitch)
<b>Size</b>	69.6mm × 48mm
<b>Heat Dissipation</b>	Heat sink installation hole pitch: 45mm
<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%



