

## Basic

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

## Hardware

<b>Ethernet</b>	Integrated GMAC Ethernet controller extended 2xRJ45 (1000Mbps)
<b>Wireless</b>	With SDIO port to extend WiFi&Bluetooth two-in-one module -- Supports 2.4G/5GHz Dual-band WiFi, WiFi 6, 802.11 a/b/g/n/ac/ax -- Supports BT5.0 Supports 5G/4G LTE
<b>Display</b>	1 x HDMI2.0, 4K@60fps 2 x MIPI DSI, 1920*1080@60fps (or dual-channel 1xMIPI DSI 2560*1440@60fps) 1 x eDP1.3, supports 2560x1600@60fps output * Supports up to three screen output with different display
<b>Camera</b>	2 x MIPI-CSI (Single-channel 4Lan MIPI CSI or Dual-channel 2Lan MIPI CSI)
<b>Audio</b>	1 x HDMI audio output 1 x Speaker output (1.3W 8Ω) 1 x Earphone output 1 x Microphone onboard audio input
<b>PCIE</b>	1 x PCIe 3.0 (2Lane) 1 x PCIe 2.1 (1Lane)
<b>SATA</b>	3 x SATA 3.0
<b>USB</b>	2 x USB 3.0, 2 x USB 2.0
<b>Interface</b>	3 x SDMMC 3 x SPI 10 x UART 6 x I2C x 6 2 x I2S/PCM(2ch)/TDM(8ch) 16 x PWM 7 x ADC 3 x CAN 130 x GPIO
<b>Power</b>	5V (±5%)

## Software

<b>OS</b>	Supports Android 11.0, Ubuntu 18.04 OS
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## General

<b>Size</b>	82.0 mm × 53.5mm
<b>Type</b>	Gold finger (MXM3.0 314P standard interface), 0.5mm pitch, immersion gold technology
<b>Power Consumption</b>	Idle: 0.015W Normal: 2.75W Max: 5.55W
<b>Heat Dissipation</b>	Heat sink installation hole pitch: 45mm, matched heat sink is recommended (Click to See)
<b>Temperature</b>	Operating Temperature : -10°C ~ 60°C Storage Temperature:-20°C ~ 70°C Storage Humidity :10% ~ 80 %

