

## 2. Product Specification

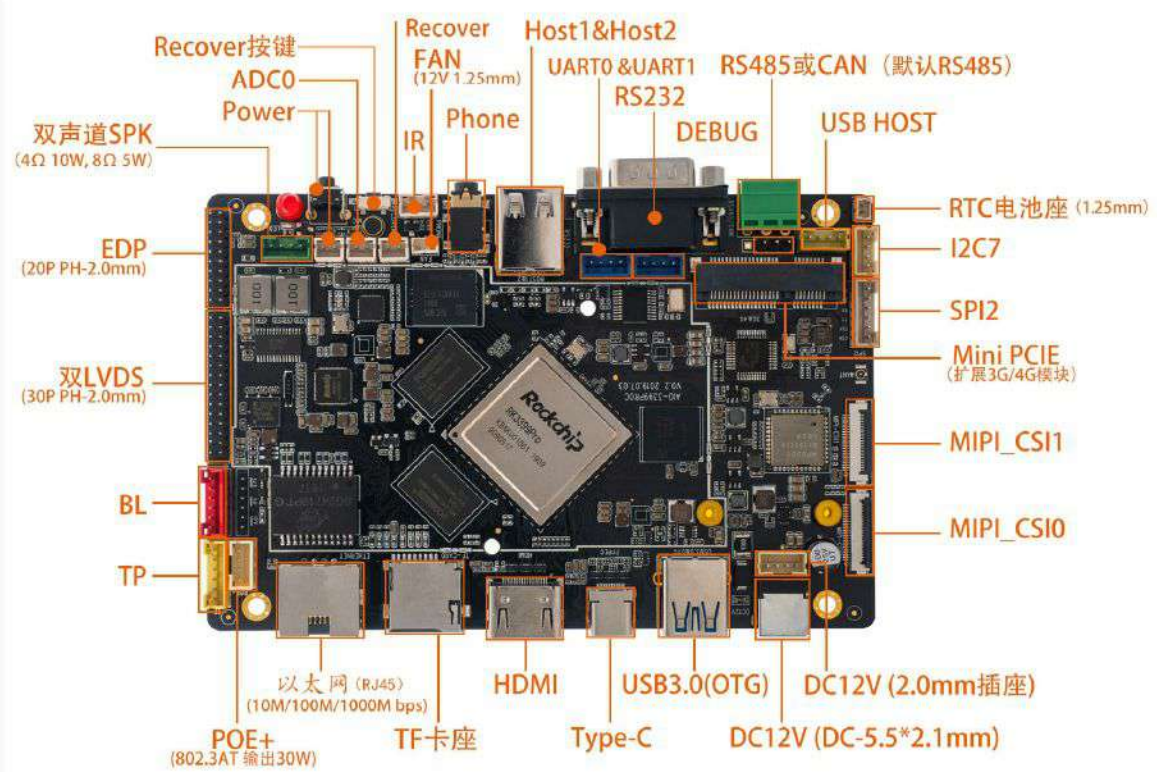
Specification			
CPU	Rockchip RK3399Pro, Dual-core Cortex-A72+ Quad-core Cortex-A53 big.LITTLE core CPU architecture, frequency up to 1.8G Hz		
GPU	ARM® Mali-T860 MP4 Quad-core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 Support AFBC (frame buffer compression)		
NPU	Built-in neural network processor NPU, powerful AI computing performance: - Support 8bit/16bit operation, computing performance up to 3.0TOPS. - Compared with using the traditional GPU as the large chip scheme of AI computing unit, the power consumption of NPU is merely 1% of that of GPU. - Load Caffe / Mxnet / TensorFlow models directly. - Provide AI development tools: Support model fast conversion, support end-to-side API, support TensorFlow / TF Lite / Caffe / ONNX / Darknet models. - Provide AI application development interface: Support Android NN API, provide RKNN cross-platform API, Linux support for TensorFlow development.		
RAM	LPDDR3 3GB (NPU 1GB + CPU 2GB), LPDDR3 6GB (NPU 2GB + CPU 4GB)		
Storage	High-speed eMMC 5.1 (16GB/32GB/64GB/128GB) Support TF card expansion		
Hardware Features			
Ethernet	Gigabit Ethernet Interface (RJ45) On-board WIFI / BT module, support 2.4GHz / 5GHz dual-band WiFi, 802.11a/b/g/n/ac protocol Support Bluetooth 4.1 Mini PCIe (Used to expand 3G/4G modules for use with Micro SIM card slots)		
Vpu	Support 4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps 1080P multi-format video decoding (VC-1, MPEG-1/2/4, VP8) 1080P video coding, support H.264, VP8 format Video post processor, de-interlacing, de-noising, edge/detail/color optimization		
Display	- 1 x HDMI 2.0, support 4K@60HZ output and HDCP 1.4/2.2 - 1 x MIPI-DSI , support single-channel 1080P@60fps output and dual-channel LVDS output (The board defaults to dual LVDS and supports 1920x1200@60fps) - 1 x eDP 1.3 ( 4 lanes with 10.8Gbps ) - Support dual-screen identical display/dual-screen differential display		
Interface	SPI×1, UART×2, Debug×1, RS485×1(CANx1 and RS485 share the same interface), RS232×1, ADCx1, TPx1, IRx1, I2C, PWM, GPIOt		
Audio	1 x HDMI 2.0 Audio output 1 x I2SFor audio input and output 1 x Speaker Dual-channel speaker (4Ω, 10W 8Ω, 5W) 1 x Headset output 1 x Mic Audio input		
USB	3 x USB2.0 Hub, 1 x USB3.0, 1xTYPE-C(OTG)		
IR	With a one-way infrared receiver, Support infrared remote control		
Power	DC 12V-2A (DC5.5 × 2.1mm)		
OS	Support Android, Linux, Ubuntu system		
Power / Environmental Parameter			
Operating Voltage	Min: 6V	Typical: 12V	Max: 24V
Operating Current	Min: 500mA	Typical: 1A	Max: 2A
Operating Temperature	Min: -20 °C	Typical: 25 °C	Max: 60 °C
Storage Temperature	Min: -40 °C	Typical: 25 °C	Max: 125 °C
Appearance			
Type	Specification		
Size	160 x 94 x 26 mm		
Appearance	AL6063 aluminum profile		

### 3. Size



#### 4. Interface description





### SIM卡座 (MicroSIM标准)

