



- **Processor**

Quad-core ARM® Cortex® A53 processor with a maximum frequency of 1.2GHz per core supporting 32 and 64bit computing
- **Excellent graphics processing power**

HD video 8 x 1080p@30fps
Ultra HD video 4K@60fps playback
- **Wide range of application scenarios**

Applications in the communications, smart home, smart healthcare, Internet of Things (IOT) applications
- **Support system diversification**

Android, Linux, Windows 10
- **Graphics**

Adreno™ 306 400MHz, PC-level graphics processing power
- **Camera**

Support 13MP camera, support wavelet denoising, JPEG decoding and other hardware-level post-processing techniques.
- **Compatibility**

Compliant with 96Boards Open Hardware Design Specification
- **Enterprise service**

Provide comprehensive quality assurance, after-sales service and technical support



Product Specification

CPU	Snapdragon SD820E, Quad core
CPU Frequency	2.15GHz
Internal Memory	4GB LPDDR4
Internal Storage	64GB UFS2.0
OS	Android 7.1/Linux
Bluetooth	4.2
Built-in WiFi	802.11 a/b/g/n/ac
WiFi Frequency Range	2.400~2.497GHz, 4.900~5.845GHz
Ethernet port	RJ45 10/100/1000Mbps
GPS	Yes
USB Interface	USB 3.0 x 2; Micro USB x 1
Micro SD Card Slot	1
Camera	Integrated Dual ISP with support for 3 image sensors up to 28MP
Expansion connector	1x 96boards 40 pin Low-Speed connector <ul style="list-style-type: none"> • UART x2, SPI, I2S, I2C x2, GPIO x12, DC power 1x 96boards 60 pin High-Speed connector <ul style="list-style-type: none"> • 4L-MIPI DSI, USB, I2C x2, 2L+4L-MIPI CSI 2x Analog expansion connector <ul style="list-style-type: none"> • headset, speaker via sound-wire interface, microphones, line-outs 1x 60 pin High-Speed connector <ul style="list-style-type: none"> • secondary 4L-MIPI DSI, SSC serial buses, TSIF – connection available only in hardware
Size (mm)	124*126
Power	+6.5V to +18V