



#### 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

#### eMMC Storage

Reliable Write and Data Reliability parameter settings ensure existing data are not corrupted when a sudden power lost event occurs.



## Product Specification

|                     |  |
|---------------------|--|
| CPU                 | Snapdragon 410E, Quad core   |
| GPU                 | Qualcomm® Adreno™ 306  |
| CPU Frequency       | 1.2GHz   |
| Internal Memory     | 1GB/2GB LPDDR3 533MHz  |
| Internal Storage    | 8GB/16GB eMMC 5.0  |
| OS                  | Android 6.0 ,Linux based on Debian ,Windows 10 IoT core  |
| Bluetooth           | 4.0  |
| Built-in WiFi       | WiFi 5<br>Note: Android does not support wifi 5GHz   |
| Ethernet port       | RJ45 10/100/1000Mbps   |
| RTC                 | Yes  |
| LTE Support         | CN/EU/US/AU/Global,  |
| GPS                 | Yes  |
| USB Interface       | 2x USB 2.0 type A (host mode only),1x USB 2.0 micro B (device mode only)   |
| Micro SD Card Slot  | 1  |
| Display             | HDMI 1.3 – HDMI full-size type A connector (1080p HD @ 30 fps),<br>1x MIPI-DSI 4-lane, up to 720p 60fps or 1080p 30fps for optional display/touch  |
| Expansion connector | 1x 96boards 40 pin Low-Speed connector<br>• UART, SPI, I2S, I2C x2, GPIO x12, DC power<br>1x 96boards 60 pin High-Speed connector<br>• 4L-MIPI DSI, USB, I2C x2, 2L+4L-MIPI CSI<br>Footprint for one optional 16-pin Analog expansion connector<br>• Headphone output, Class-D speaker driver output, Microphone input,FM RX Antenna |
| Size (mm)           | 85 X 60mm  |
| Operating Temp      | -10°C to +85°C   |
| Power               | +6.5V to +18V  |

