



# M1503

## Smart module

M1503 is a low power and high performance smart module supporting 2G/3G/4G, It is based on qualcomm' s msm8909 platform with WIFI/BT/GNSS/FM Receiver built in it. It can adapt to application occasions that require android control center and data transfer.

M1503 has tiny package and wide work temperature. Its LCC package makes it easy to be soldered and produced quickly through standard SMT equipment. All of these features make it suitable to industrial and domestic areas, such as smart measurement, wireless POS, secure system, etc.



4 Core



LCC



Extended Temperature  
Range-25°C to +75°C



WIFI(2.4G/5G)



Bluetooth 4.0



GNSS



Android



H.264 1080P



LTE cat 4



2G/3G/4G

## Main Features

- OS  
Android 6.0(32bit)
- Processor  
Quad-core ARM@Cortex-A7 MPCore  
1.1GHz/512KB L2 cache
- Memory  
RAM: 8Gb LPDDR3  
ROM: 8GB eMMC
- Graphics  
Adreno 304;3D graphics accelerator Up to 400 MHz
- Video  
Encode: H.264 BP/MP -720p, 30fps  
Decode: H.264 BP/MP/HP-1080P; 30fps  
H.265 MP 8-bit 1080P;30fps
- Audio  
2 mic inputs, 3 outputs
- LTE CAT4
- Support Band:  
FDD LTE:B1/B3/B7/B8/B20  
TDD LTE:B38/B39/B40/B41e  
UMTS: B1/B2/B5/B8  
TDSCDMA: B34/B39  
CDMA: BC0  
GSM: 850/900/1800/1900 MHz
- Wireless connection  
WIFI: 802.11 a/b/g/n;Dual-band 2.4 GHz and 5 GHz  
FM: FM Receiver  
Bluetooth: BT4.0(BR/EDR + BLE)  
GNSS: GPS/BEIDOU/Galileo/GLONASS
- Voltage range: 3.5-4.3V(3.8V is recommended)
- Operating temperature range : -25 ~ +75°C
- Storage temperature range: -40 ~ +85°C
- Size : 38.0mmX43.0mmX2.9mm
- Package : 146-pin LCC
- Weight : Approx 15 g

## Features for User Peripherals

- Display screen: HD(720x1280)
- Touch screen type: Capacitive touch screen
- CAMERA  
Front 2MP; Rear 8MP
- KEY  
Power key, Volume Up, Volume Down

## Interfaces

- LCD(MIPI DSI)
- Analog voice
- 2Camera(Front 1Lane, Rear 4Lane)
- USIM (3 V / 1.8 V)
- UART X2
- GPIO
- USB 2.0
- ADC
- SDIO
- PCM
- SPI
- I2C
- KEYPAD

## Certification

- CCC\*/TA\*/ CE\*