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
LCC

Extended Temperature Range-30°C to +75°C

WIFI(2.4G/5G)

Bluetooth 4.0

GNSS

Android

H.264
H.264 1080P

4G cat 4
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
- Memeory
  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
- LET CAT4
- Support Band:
  FDD LTE:B1/B3/B7/B8/B20
  TDD LTE:B38/B39/B40/B41eo
  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: 3.5-4.35V(3.8V is recommended)
- Operating temperature range : -30 ~ +75℃
- Storage temperature range: -40 ~ +85℃
- 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 2Lane)
- USIM (3 V / 1.8 V)
- UART X2
- GPIO
- USB 2.0
- ADC
- SDIO
- PCM
- SPI
- I2C
- KEYPAD

Certification

- CCC*/TA*/ CE*

LYNQ