



# M1507

## Smart module

M1507 is a low power and high performance module supporting 2G/3G/4G. It is a smart-based module with WIFI/BT/GNSS/FM Receiver. It can fit application occasions that require android control center and data transfer.

M1507 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 suit to industrial and domestic areas, such as smart measurement, wireless POS, automatic device, secure system, etc.



4 Core



LCC



Temperature  
-30°C to +75°C



WIFI(2.4G/5G)



BT 3.0/4.0



GNSS



Android



H.264 1080P



GPRS Class 12



2G/3G/4G

## Main Features

- **OS:**  
Android 6.0 (32bit)
- **Processor:**  
Quad-core ARM@1.3GHz Cortex-A53 MPcore  
512KB unified L2 cache
- **Memory:**  
8GB eMMC+1GB LPDDR3 ( Optional 16GB+2GB )
- **Graphics:**  
MaliT720-MP@450MHz and 3D/100M tri/sec,  
900M pixel/sec
- **Video:**  
Decode H.264 1080P@30fps/40Mbps  
Encode: H.264 1080P@30fps
- **Audio:**  
Sampling rates: 8kHz to 192kHz  
Sampling formats: 8/16/24-bit, Mono/Stereo  
Speech codec(FR,HR,EFR,AMR FR,AMR HR  
and Wide Band AMR)
- **Connectivity :**  
WIFI: 802.11a/b/g/n  
FM: FM Receiver  
Bluetooth:BT3.0/4.0  
GNSS: GPS/BEIDOU/Galileo/ Glonass
- **Frequency Band:**  
WCDMA:Band1/2/5/8  
FDD\_LTE:Band1/3/7  
TDSCDMA:Band34/39  
TDD\_LTE:Band38/39/40/41  
GSM/GPRS/EDGE: Band2/3/5/8  
CDMA2000 ( EVDO ) : BC0
- **Sensor:**  
Support 12 bit tri-axis accelerometer

## Features for User Peripherals

- LCM: FHD (1920\*1080)
- TP: Capacitive
- Front camera: 13MP
- Rear camera: 13MP
- Audio: 3 differential MIC inputs, 2 outputs

## Specifications

- Voltage range: 3.50 to 4.35V (4V recommended)
- I/O voltage: 1.8V
- Package: 152-pin LCC
- Operating temperature range: -30 to +75°C
- Storage temperature range: -40 to +85°C
- Dimension: 52.0mm x 41.0mm x 2.95 mm
- 4 antenna PAD(SMD): WIFI/BT, GNSS, RF  
Main antenna, RF MIMO antenna

## Interfaces

- 2 SIM card (3.0V/1.8V)
- TF card
- USB 2.0 HS Peripheral (OTG)
- PCM
- IIS
- 4 UART
- 4 IIC
- SPI
- ADC
- GPIO
- EINT
- key
- Battery charge

