



L502-3 Series

LTE Cat1 module

L502-3 series are a Cat1 module for LCC+LGA package, with stable and reliable performance. It can well meet customer's requirements for cost-effective, low-power applications.

L502-3 series size is only 27*24*2.5mm and very convenient for SMT. It can meet the needs of customers for small module products and facilitate customers to reduce product size and optimize product costs. All of these features make it suit to M2M and IoT areas, such as smart meter reading, wearable device, secure system, etc.



FOTA



LTE Cat1



Temperature
-40°C to +85°C



AT



Ultra Low Power
Consumption



USB2.0



Analog Audio



VoLTE



GNSS

Main Features

- Module Configuration :
 - L502C-3E : Modem only
 - L502CN-3E : Modem only+GNSS
 - L502M-3E : CAM+LCD+TP
 - L502MN-3E : CAM+LCD+TP+GNSS
- Frequency Bands :
 - TDD-LTE : B34/B38/B39/B40/B41
 - FDD-LTE : B1/B3/B5/B8
- Output Power :
 - LTE : 23dBm±2dB
- GNSS
 - Tracking : -162dBm
 - Reacquisition : -159dBm
 - Hot starts : -158dBm
 - Cold starts : -148dBm
 - Cold starts TTFF : 28s
 - Hot starts TTFF : 1s
 - GNSS Accuracy : 2.5m CEP
 - Speed : 0.1m/s
- Support AT command
- Operation Temperature Range :
 - 40°C ~ +85°C
- Supply Voltage Range :
 - 3.3 ~ 4.2V (3.8V Typ)
- Dimensions : 27*24*2.5mm
- Package : 130-pin LCC+LGA
- Weight : Approx 4g

Data transmission

- Support LTE Cat1 :
 - DL 10Mbps ; UL 5Mbps

Interfaces

- 3 UART
- (U)SIM (3.0V/1.8V)
- IIC
- ADC
- USB2.0
- Battery charge
- Key
- GPIO
- Analog Audio
- GNSS Antenna
- LTE Antenna

Other features

- Firmware Update : Firmware updated via USB
- USB Drivers : Microsoft Windows XP/7/10
- Support WIFI SCAN
- Support TCP/UDP/HTTP/FTP/MQTT/SSL/FOTA/PPP

Power consumption

- LTE Standby : TBD

Certification

- SRRC*/RoHS*