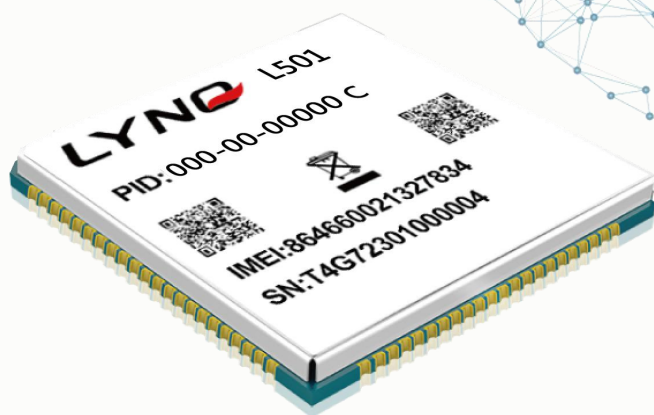


L501-3 Series

LTE Cat1 module

L501-3 is 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.

L501-3 size is only 30*30*2.4mm 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 IoT areas, such as PoC, Mobile payment, security and alarm systems, on-board vehicle, DTU, asset tracking, sharing economy, etc.

LYNO



FOTA



LTE Cat1



Temperature
-40°C to +85°C



AT



Ultra Low Power
Consumption



USB2.0



Analog Audio



VoLTE



GPRS CLASS 12

Main Features

- Module: (N: with GNSS)

L501C (N)-3S:

TDD-LTE: B34/B38/B39/B40/B41

FDD-LTE: B1/B3/B5/B8

GSM: B3/B8

L501E(R) (N)-3S: (R: with B31)

TDD-LTE: B38/B40/B41

FDD-LTE: B1/B3/B7/B8/B20/B28(/B31)

GSM: B3/B8

L501I (N)-3S:

FDD-LTE: B1/B3/B8

GSM: B3/B8

L501G(N)-3S:

TDD-LTE: B34/38/39/40/41

FDD-LTE: B1/2/3/4/5/7/8/20/28/66

GSM: B2/3/5/8

- GNSS:

Tracking: -162dBm

Reacquisition: -159dBm

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 ~ 4.5V (3.8V Typ)
- Dimensions: 30*30*2.4mm
- Package: 135-pin LCC+LGA
- Weight: Approx 3.5g

Interfaces

- 3 UART
- SIM (3.0V/1.8V) , or eSIM
- IIC
- 2 ADC
- USB2.0
- PCM
- GPIO
- Analog Audio
- Main/GNSS Antenna

Other features

- Firmware Update: Firmware updated via USB
- USB Drivers: Microsoft Windows XP/7/8
- Support WIFI SCAN
- Support TCP/UDP/HTTP/FTP/MQTT/SSL/TLS1.2/FOTA/PPP/VOLTE

Power consumption

- LTE Standby: 1.2mA@4V
- GSM Standby: 1.3mA@4V

Data transmission

- Support LTE Cat1:
DL 10Mbps; UL 5Mbps
- Output Power:
LTE: 23dBm±2dB
GSM: GSM900 33dBm ±2dB
DCS1800 30dBm ±2dB

Certification

- CCC/SRRC/CE/FCC/IC/RoHS