



L511

LTE Cat1 module

L511 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.

L511 size is only 15.8*17.7*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.



FOTA



LTE Cat1



Working Temperature
-40°C to +85°C



AT Command



Low current



USB2.0



Analog Audio



VoLTE

Main Features

- Module:
L511CS(N): 8MB pSRAM+8MB flash
L511C(N): 4MB pSRAM+4MB flash
L511C-6L: 4MB pSRAM+2MB flash
*(N) for GNSS
- Band:
FDD-LTE: B1/B3/B5/B8
TDD-LTE: B34/B38/B39/B40/B41
- Output Power:
LTE: 23dBm±2dB
- GNSS
Tracking Sensitivity: -165dBm
Hot starts Sensitivity: -155dBm
Cold starts Sensitivity: -148dBm
Cold starts TTFF: 28s
Hot starts TTFF: 1s
Accuracy: 2.0m CEP50
Speed: 0.1m/s
Maximum update rate: 1Hz
- Support AT command
- Operation Temperature Range: -40°C ~ +85°C
- Supply Voltage Range: 3.3 ~ 4.5V (3.8V Typ)
- Dimensions: 15.8*17.7*2.4mm
- Package: 94-pin LCC+LGA
- Weight: Approx 1.4g

Certification

- CCC/SRRC

Interfaces

- 2 UART
- (U)SIM (3.0V/1.8V)
- I2C
- SPI
- PWM
- ADC
- USB2.0
- GPIO
- PCM
- PWKEY
- Reset
- LTE Antenna
- GNSS Antenna

Other features

- Firmware Update: Firmware updated via USB
- USB Drivers: Microsoft Windows XP/7/8/10
- Support WIFI SCAN
- Support TCP/UDP/HTTP/FTP/MQTT/SSL/FOTA/PPP/VOLTE etc.

Data transmission

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

Power consumption

- LTE Standby: 1.2mA@3.8V