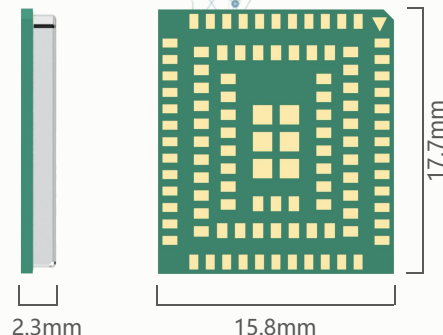
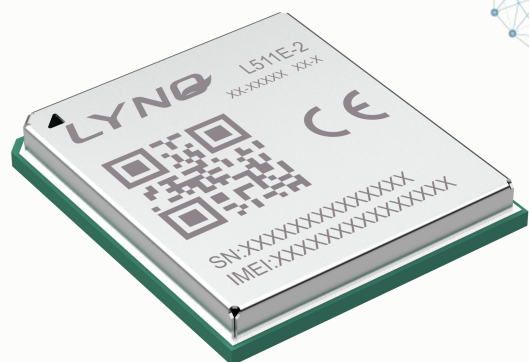




L511E-2 Series LTE Cat1 module

L511E-2 series is a CAT1 communication module developed by LYNQ for IoT industry. L511E-2 adopts LGA package with a size of 17.7mm×15.8mm×2.3mm. L511E-2 series supports FDD/TDD communication mode. Module has a European version. And it supports LCD, CAM, FOTA, AT commands, WiFi scan and other functions.

L511E-2 series has a variety of interfaces, rich protocols and multiple versions of USB driver. These make it easy to use. This module is mainly used in POS, POC, sharing economy, tracker, IPC, smart city and smart agriculture scenarios.



FOTA



LTE Cat1



Temperature
-40°C to +85°C



AT command



Ultra Low Power
Consumption



USB2.0



GNSS

Main Features

- Module Configuration:
L511E(N)-2C: 4MB pSRAM+2MB flash
L511E(N)-2S: 4MB pSRAM+4MB flash
- Frequency Bands:
L511E(N)-2C/S
FDD-LTE: B1/B3/B5/B7/B8/B20/B28
TDD-LTE: B38/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: 2.0 CEP50
Speed: 0.1m/s
Maximum update rate: 1Hz
Support 1PPS
- CPU Core: ARM Cortex-R5@614MHz
- Support AT command
- Operation Temperature Range: -40°C ~ +85°C
- Supply Voltage Range: 3.3 ~ 4.5V (typ.3.8V)
- Dimensions: 17.7*15.8*2.3mm
- Package: 109-pin LGA
- Weight: 2.2g

Other features

- Firmware Update: Firmware updated via USB
- USB Drivers: Microsoft Windows7/8/10
- Support WiFi SCAN
- Support TCP/UDP/HTTP/MQTT/SSL/FOTA/PPP etc.

Interfaces

- I2C×2
- GPIO×2*
- USB2.0×1
- ADC (12bit) ×2
- (U)SIM card(3.0V/1.8V)×1
- UART×3*
- SPI×1*
- PCM×1
- CAM (8W pixel) ×1
- LCD (320*240) ×1
- SPK×1*
- PWRKEY×1
- RESET×1
- Main Antenna×1
- GNSS Antenna×1

Note: *For specific applications, please contact FAE

Power consumption

- IDLE mode: 13mA @3.8V
- Sleep mode: 0.7mA@3.8V
- Shutdown: 6uA@3.8V

Data transmission

- Cat1 LTE-FDD: Max.DL:10Mbps, Max.UL:5Mbps
- Cat1 LTE-TDD: Max.DL: 8.96Mbps, Max.UL:3.1Mbps

Certification

- CE*/RoHS*