

L511C-7 Series

Cellular module
LTE Cat. 1

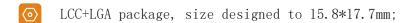
Description •

L511C-7 series are CAT1 communication modules developed by LYNQ for the IoT industry, with a maximum downlink rate of 10 Mbps and a maximum uplink rate of 5 Mbps. The modules have the characteristics of ultra-small size and ultra-high cost performance. L511C-7 series use the LCC+LGA package with a size of $15.8 \times 17.7 \times 2.3$ mm. They are compatible with L511 series, L511-2 series, L511-Y6 series and L511-Y7 series module products to provide customers with a rich selection.

L511C-7 series support FDD/TDD communication mode and apply Chinese frequency band. The modules aim at the Chinese market and support 2M/4M flash options. They have Audio, LCD, CAM, FOTA, AT command, WiFi scan etc.

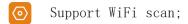
L511C-7 series have a variety of interfaces, rich protocols, and multiple versions of USB drivers, making the application simple and convenient. The modules are mainly used in POS, POC, sharing economy, tracker, IPC, smart city and smart agriculture scenarios.

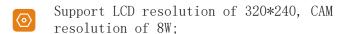
Advantage



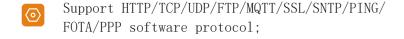














DFOTA



AT command



WiFi scan



LTE Cat1



Low Power Consumption



GNSS



-40℃ ~+85℃



USB2. (



Tiny size



| | L511C-7C | L511C-7S |
|--------------------------|--|---|
| Area | China | China |
| General Features | Chillia | CITTII |
| Package | 109-pin LGA | 109-pin LGA |
| Dimension | 15. 8*17. 7*2. 2mm | 15. 8*17. 7*2. 2mm |
| Weight | 1. 2g | 1.2g |
| | 3. 3 ~ 4. 5V (Typ 3. 8V) | 3.3 ~ 4.5V (Typ 3.8V) |
| Power supply | -40°C ~ +85°C | -40°C ~ +85°C |
| Operating temp. | -40 C +85 C | -40 C +85 C |
| Band | P1 /P0 /P0 /P5 /P0 | P1 /P0 /P0 /PF /P0 |
| LTE-FDD | B1/B2/B3/B5/B8 | B1/B2/B3/B5/B8 |
| LTE-TDD | B34/B38/B39/B40/B41 | B34/B38/B39/B40/B41 |
| GNSS | GPS+Glonass+BD | GPS+Glonass+BD |
| Transmission rate | | |
| LTE-FDD (Mbps) | 10 (DL) / 5 (UL) | 10 (DL) / 5 (UL) |
| LTE-TDD(Mbps) | 8.96 (DL) / 3.1 (UL) | 8.96 (DL) / 3.1 (UL) |
| Memory | | |
| RAM+ROM | 4MB pSRAM+2MB flash | 4MB pSRAM+4MB flash |
| Interface | | |
| UART | ×2 | ×2 |
| USIM(3.0V/1.8V) | ×2 | ×2 |
| SPK | X1 | X1 |
| I ² C | ×2 | ×2 |
| SPI | $\times 2^*$ | $\times 2^*$ |
| ADC | ×3* (12bit) | ×3* (12bit) |
| USB2. 0 | X1 | X1 |
| PCM | X1 | X1 |
| GPI0 | • | • |
| LCD | ×1 (320×240) | ×1 (320×240) |
| Camera | ×1 (8W Pixel) | X1 (8W Pixel) |
| Reset | X1 | ×1 |
| Powerkey | X1 | ×1 |
| Main antenna | X1 | ×1 |
| GNSS antenna | X1 | ×1 |
| Software function | | |
| WiFi scan | • | • |
| TTS | 0 | © |
| BLE/BT | 0 | 0 |
| DFOTA | • | • |
| SMS | 0 | • |
| AUDIO | 0 | • |
| SIM detection | 0 | 0 |
| Software feature | | |
| Protocols | TCP/UDP/HTTP/FTP/MQTT/SSL [©] /SNTP/PING/PPP [©] | TCP/UDP/HTTP/FTP/MQTT/SSL/SNTP/PING/PPP |
| RIL drive | Android 4.4~12.0 | Android 4.4~12.0 |
| USB RNDIS drive | windows 7/8/10/11 | windows 7/8/10/11 |
| | Linux 2.6 and later | Linux 2.6 and later |
| USB ECM drive | Linux 2.6 and later | Linux 2.6 and later |
| USB to serial drive | windows 7/8/10/11 | windows 7/8/10/11 |
| | Linux 2.6 and later | Linux 2.6 and later |
| | Android 4.0 and later | Android 4.0 and later |
| Electrical feature | | |
| IDLE mode | 8mA@3.8V | 8. 3mA@3. 8V |
| Sleep mode | 1.2mA@3.8V | 1. 3mA@3. 8V |
| Shutdown | 7uA@3. 8V | 5uA@3.8V |
| Certification | | |
| Regulation | CCC*/SRRC* | CCC*/SRRC* |
| Operator | NA | NA |
| Industry | NA | NA |
| 1. * : Application statu | 18 | |

1. * : Application status Please contact FAE.

2. •: Support.

3. O: Nonsupport.

4. ©: Optional function, not supported by the platform version.

