

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 15.8×17.7×2.3mm. 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

-  LCC+LGA package, size designed to 15.8*17.7mm;
-  Universal pin definition to achieve compatible design;
-  Support Audio;
-  Support WiFi scan;
-  Support LCD resolution of 320*240, CAM resolution of 8W;
-  Support GPS+Glonass+BD positioning function;
-  Support HTTP/TCP/UDP/FTP/MQTT/SSL/SNTP/PING/FOTA/PPP software protocol;

 DFOTA	 LTE Cat1	 -40°C ~+85°C
 AT command	 Low Power Consumption	 USB2.0
 WiFi scan	 GNSS	 Tiny size

	L511C-7C	L511C-7S
Area	China	China
General Features		
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
Power supply	3.3 ~ 4.5V (Typ 3.8V)	3.3 ~ 4.5V (Typ 3.8V)
Operating temp.	-40°C ~ +85°C	-40°C ~ +85°C
Band		
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	×1	×1
I ² C	×2	×2
SPI	×2*	×2*
ADC	×3* (12bit)	×3* (12bit)
USB2.0	×1	×1
PCM	×1	×1
GPIO	●	●
LCD	×1 (320×240)	×1 (320×240)
Camera	×1 (8W Pixel)	×1 (8W Pixel)
Reset	×1	×1
Powerkey	×1	×1
Main antenna	×1	×1
GNSS antenna	×1	×1
Software function		
WiFi scan	●	●
TTS	○	◎
BLE/BT	○	○
DFOTA	●	●
SMS	◎	●
AUDIO	○	●
SIM detection	◎	◎
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 Linux 2.6 and later	windows 7/8/10/11 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 Linux 2.6 and later Android 4.0 and later	windows 7/8/10/11 Linux 2.6 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 status
Please contact FAE.

2. ●: Support.

3. ○: Nonsupport.

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