

## LTE 模组产品

### GM510



LCC Form Factor



LTE FDD & LTE TDD



LTE FDD: UL 50Mbps



Pin-to-Pin with  
ME3630



Embedded TCP/UDP



LTE FDD: DL 150Mbps



FOTA



4-wires UART



RAS /ECM/RNDIS



-40°C ~ +85°C



Auto suspend &  
remote wakeup



USB 2.0

## M2M 应用适用

**GM510**系列无线通讯模组是基于LTE制式的移动网络通讯模组，支持LTE-FDD及LTE-TDD制式并支持LTE Cat.4。在LTE制式下，该模组可以提供最大50Mbps上行速率和150Mbps下行速率。

该模组支持多种网络协议（PAP、CHAP、PPP）和多种功能（FOTA, Remote wakeup等），并能提供USB，UART，SDIO，I2C，SPI等硬件接口。

该模组支持宽温工作，可广泛应用于移动宽带，公网对讲，无线支付，车载，安防监控、智能物流、智慧工业等多种物联网应用场景。



注：图片仅供参考，请以实物为准。

基本属性

- ❑ LCC Form Factor (80 pins)
- ❑ Pin-to-Pin with ME3630
- ❑ Dimensions: 30mm × 30mm× 2.3mm
- ❑ Frequency Band :
  - LTE FDD/LTE TDD
  - WCDMA\*
  - GSM \*

电气及灵敏度

- ❑ Transmit Power:
  - LTE: 23 ± 2.7dBm (Power Class 3)
  - WCDMA: 24 +1/-3dBm (Power Class 3)
  - GSM900 : 33 ± 2dBm (Power Class 4)
  - GSM1800: 30 ± 2dBm (Power Class 1)
- ❑ Receiving sensitivity:
  - Rx Diversity \*
- ❑ Power Supply :
  - 3.4V -- 4.2V(3.8V is recommended)

环境适应性

- ❑ Operation temperature: -30° C to +75° C
  - Extreme Operating temperature: -40° C to +85° C
- ❑ Storage temperature: -40° C to +85° C
- ❑ Humidity: 5%~ 95%

GM510 系列频段信息

PID	Band	Rx Diversity	适用区域
C2A	LTE FDD: B1, B3, B5, B8 LTE TDD: B34,B38,B39, B40, B41 WCDMA: B1,B8	Yes	中国
C2D	LTE FDD: B1, B3, B5, B8 LTE TDD: B34,B38,B39, B40, B41 WCDMA: B1,B8	No	
C2E	LTE FDD: B1,B3,B5,B8 LTE TDD: B34,B38,B39,B40,B41 WCDMA: B1,B8 GSM: B3,B8	No	
C2F	LTE FDD: B1,B3,B5,B8 LTE TDD: B34,B38,B39,B40,B41 WCDMA: B1,B8 GSM: B3,B8	Yes	
C2M	LTE FDD: B3,B8 LTE TDD: B34,B38,B39,B40,B41 GSM: B3,B8	No	
E1A	LTE FDD: B1,B3,B7,B8,B20 LTE TDD: B38 WCDMA: B1,B8	Yes	欧亚
L1A	LTE FDD: B1,B2,B4,B5,B7,B28,B66 LTE TDD: B40 WCDMA: B1,B2,B5	Yes	拉美

数据特性

- ❑ LTE
  - LTE FDD 50Mbps(UL) / 150 Mbps(DL)
  - LTE TDD 30Mbps(UL) / 130Mbps(DL)
- ❑ UMTS
  - HSPA+ 21Mbps(DL)
  - HSUPA 5.76Mbps(UL)
  - WCDMA 384Kbps(DL) / 384Kbps(UL)
- ❑ GSM
  - EDGE 236.8 Kbps(UL) / 236.8 Kbps(DL)
  - GPRS 85.6 Kbps(UL) / 85.6 Kbps(DL)

模组接口

- ❑ USB 2.0 High speed (480 Mbps)
- ❑ UART1(4-wires)
- ❑ UART2 for debug (2-wires)
- ❑ SIM interface (1.8/3.0V)
- ❑ SPI
- ❑ I2C
- ❑ Antenna (RF PAD for Primary, Diversity)
- ❑ LED indication
- ❑ Reset & Power-on
- ❑ WAKEUP-IN & WAKEUP-OUT

应用功能

- ❑ Support embedded TCP & UDP protocols
- ❑ Support protocols PAP and CHAP used for PPP connection
- ❑ USB Selective Suspend & Remote wakeup
- ❑ RAS /ECM/RNDIS
- ❑ Control Via AT Commands according to 3GPP TS27.005, 27.007 and GOSUNCN extended AT commands

驱动&工具

- ❑ Drivers
  - Windows XP, Vista, 7 , 8, 10
  - Linux
  - Android
- ❑ Diag-log Tool
- ❑ Firmware Update Tool

注：\*代表该功能仅部分PID配置。