



MeiG Smart SLM320 Module

LTE Cat.1 Module
 Support GPS & BT & Wi-Fi Scan

MeiG Smart SLM320 is a new generation of LTE Cat.1 bis wireless communication module launched by MeiG Smart. It is footprint compatible with MeiG SLM750, SLM790 modules and provides to customer LTE Cat.1 and LTE Cat.4 compatible design for different market demand. It integrates BT4.2/BLE and Wi-Fi Scan functions, GPS/Beidou/Glonass optional configuration, reserved SMD SIM card on board as an option, and expandable SPI flash configuration. It also adopts Mini PCIe package to make it as an ideal solution for different applications.

SLM320 series modules support several different variants for different markets: SLM320-C for China, SLM320-E for EMEA & Asia Pacific, SLM320-LA for Latin America.

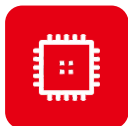
SLM320 has a rich set of protocols, including TCP, UDP, MQTT, FTP/FTPS, HTTP/HTTPS, LW M2M, CoAP. It integrates multiple industrial standard interfaces, and supports rich peripheral expansion. Therefore, it greatly expands the scope of its applications in M2M. It can be applied in industrial meters, equipment sharing, security monitoring, financial POS, tracker, etc

Core Advantages:

- Support LTE Cat.1 with a maximum Downlink rate of 10 Mbps
- Support full coverage of GSM/GPRS/LTE Cat.1 network system
- Support BT4.2 and Wi-Fi Scan
- Support GPS/BD/GLonass
- Support FOTA remote upgrade



Cat.1
 Maximum 10Mbps(DL)
 Maximum 5Mbps(UL)



ARM Cortex
 A5 500MHz



BT 4.2
 BR/EDR



LCC+LGA



Wi-Fi Scan



GPS+BeiDou
 GLONASS



TCP/UDP



USB2.0

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General Features:

- Package: LCC (LCC80pin+LGA 64pin)
- Size: 32.0×29.0×2.4mm
- Weight: About 5g

Module Rate:

- LTE-FDD (Non-CA Cat.1):
Max 10Mbps(DL)/5Mbps(UL)
- LTE-TDD (Non-CA Cat.1):
Max 8Mbps(DL)/2Mbps(UL)
- GPRS:Max 85.6kbps(DL)/85.6kbps(UL)

Drives & Tools:

- Drives: Window series, Linux 2.6 and above, Android 4.0
- Tools: One-click upgrade tool
- FOTA upgrade

Temperature and Humidity:

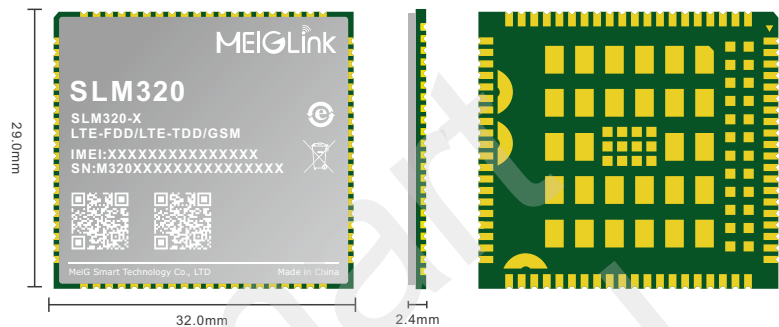
- Operation Temperature:-30°C to 70°C
- Storage Temperature:-40°C to 85°C
- Humidity:5%~95%

Module Interfaces:

- High-speed USB 2.0
- 3xUART
- 3xI2C
- 1xI2S
- 2xSDIO
- 2xSPI
- WAKEUP-IN & WAKEUP-OUT
- Power On/Off, Reset
- Fly Mode
- LED indicator light
- SIM card interface (1.8 / 3.0V)
- Antenna Interface : main antenna, BT/Wi-Fi antenna, GPS antenna

Certifications:

- CCC/SRRC/CTA/CE/RCM*/FCC*/KC*/NCC*



Transmission Power:

- Class 4 for GSM850/900:33±2dBm
- Class 1 for GSM1800/1900:30±2dBm
- Class 3 for LTE-TDD:23±2.7dBm
- Class 3 for LTE-FDD:23±2.7dBm

Protocols:

- TCP,UDP,MQTT,FTP/FTPS,HTTP/HTTPS,LW M2M,CoAP

Electrical Characteristics:

- 10uA@shutdown(TBD)
- 2mA@sleep(TBD)
- 20mA@idle(TBD)
- Power supply voltage 3.5V~4.2V, typical value 3.8V

SLM320 Band Information:

Variant for China:
SLM320-C(PN:M320P89M)
 LTE-FDD:B1/B3/B5/B8
 LTE-TDD:B34/B38/B39/B40/B41
 GSM:B3/B5/B8

Variant for EMEA, Asia Pacific:
SLM320-E(PN:M320PE1A)
 LTE-FDD:B1/B3/B5/B7/B8/B20
 LTE-TDD:B38/B40/B41
 GSM:B2/B3/B5/B8

SLM320-E(PN:M320PE2C)
 LTE-FDD:B1/B3/B7/B8/B20/B28
 LTE-TDD:B38/B40/B41
 GSM:B2/B3/B5/B8

SLM320-E(PN:M320PE2B)
 LTE-FDD:B1/B3/B5/B7/B8/B28
 LTE-TDD:B38/B40/B41
 GSM:B2/B3/B5/B8

Variant for Latin America:
SLM320-LA(PN:M320L16A)
 LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B20/B28
 LTE-TDD:B40
 GSM:B2/B3/B5/B8

Remarks:* means it is still in planning and design.



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