MeiG-SLM320 Mini PCIE

LTE Cat 1 Module

Supports GNSS & BT



SLM320 Mini PCIE module is a new generation of LTE Cat1 wireless communication module launched by MeiG. It supports maximum downlink rate 10Mbps and maximum uplink rate 5Mbps; this module integrates BT4.2 and WIFI Scan functions, GPS/Beidou/Glonass optional configuration, patch SIM card optional configuration, and extensible SPI flash configuration; With mini-PICE interface, it can meet the application needs of products in different industries.

The SLM320 Mini PCIE series modules have the following variants for different market:
SLM320-C Mini PCIE, SLM320-E Mini PCIE, SLM320-LA Mini PCIE.

SLM320 Mini PCIE built-in rich network protocols (TCP, UDP, MQTT, FTP/FTPS, HTTP/HTTPS, LWM2M, Coap), integrated multiple industrial standard interfaces, support rich peripheral extensions, greatly expand the application scope of M2M. SLM320 Mini PCIE module can be used for industrial meter, shared equipment, security monitoring, financial POS, tracker and other various kinds of products.

SLM320 Mini PCIE supports access rates:
TDD-LTE: 8Mbps/2Mbps
FDD-LTE: 10Mbps/5Mbps
GSM is up to GPRS: 85.6kbps/85.6kbps

Main advantages

- ✓ Support for the LTE Cat 1, maximum downlink rate Up to 10Mbps
- ✓ Support the comprehensive coverage of GSM/GPRS/LTE CAT1 network system
- ✓ Support for BT4.2, and support for WIFI Scan
- ✓ Support for GPS/BD/Glonass
- ✓ Support for the FOTA remote upgrade
- ✓ Super cost-effective, seamless switching with the original Cat4 products

ARM Cortex-A5
500MHz

Cat1
MAX.10Mbps(DL)
MAX.5Mbps(UL)

BT 4.2
BR/EDR

LCC+LGA Package
MINI-PCIe Package

WIFI Scan

GPS+BeiDou+
GLONASS

TCP/UDP

USB2.0

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Basic properties:

- Package：LCC Package（Module）
  MINI-PCIe Package（52pin）
- Size: 51.0×30.0×5.0 mm

Band Information:

SLM320-C Mini PCIE（China）:
LTE FDD: B1/B3/B5/B8
TD-LTE: B34/38/B39/B40/B41
GSM: B3/B5/B8
SLM320-E Mini PCIE（EMEA）
LTE FDD: B1/B3/B5/B7/B8/B20
TD-LTE: B38/B40/B41
GSM: B2/B3/B5/B8
SLM320-LA Mini PCIE (LATAM）
LTE FDD:B1/B3/B5/B7/B8/B28
LTE TDD:B40
GSM: B2/B3/B5/B8

Module Rate:

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

Transmitting power:

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

Protocol:

TCP、UDP、MQTT、FTP/FTPS、HTTP/HTTPS、LWM2M、Coap

Drive & Tools:

- Driver: Window Series, Linux 2.6 Up, Android 4.0 Up
- Tools:One-button Upgrade
- FOTA Upgrade

Module interface:

- High-Speed USB 2.0
- 2xUART
- 1xI2S
- 1xI2C
- MIC+/-
- SPK+/-
- WAKEUP-IN & WAKEUP-OUT
- Reset
- Fly Mode
- LED indicator lamp
- SIM card interface (1.8 / 3.0V)
- Antenna interface: main antenna, BT/WIFI(optional), GPS antenna (optional)

Electrical specification:

- 10uA@ shutdown (TBD)
- 2mA@ Sleep(TBD)
- 20mA@ -Free(TBD)
- Supply voltage:3.3V

Certification Information：

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

Characteristics of ambient temperature and humidity:

- Operating temperature: -30 ℃ to 75 ℃
- Storage temperature: -40 ℃ to 85 ℃
- Humidity: 5%~95%

* Representative is still in the planning and design

美格智能技术股份有限公司（股票代码：002881）
MeiG Smart Technology Co., Ltd（Stock Code：002881.SZ）
Tel：021-54278676 Fax：021-54278679 Web：http://www.meigsmart.com
地址：中国 上海 闵行区顾戴路 2337 号（维璟中心）G 幢 5 楼
Add：5th Floor, G Building, No.2337 Weijing Center, Gudai Road, Minhang District, Shanghai, China.