



MeiG Smart SLM868 Module

LTE-A Cat 6/Cat 16 LGA/Mini PCIe Packaging Module

MeiG Smart SLM868 is LTE Advanced module optimized specially for M2M and IoT applications. Adopting the 3GPP Rel. 11 LTE technology and 4×4 MIMO and CA technology, it delivers maximum 1Gbps downlink and 50Mbit/s uplink peak data rates.

SLM868 LTE-A module contains two variants: SLM868-H and SLM868-L. SLM868-H supports global bands including both B42 and B43 to make the global smooth roaming possible. SLM868-H can support LTE Cat6 to Cat12 and features 2*2 MIMO, with a maximum downlink rate of 600 Mbps.

SLM868-L is designed to support LTE Cat6 to Cat16 and features 4*4 MIMO, with a maximum downlink rate of 1 Gbps. SLM868-L product design has four variants region based: SLM868-LE, SLM868-LA, SLM868-LAPAC and SLM868-LSA, covering the global mainstream operator network.

SLM868 module adopts MIMO technology, a cutting edge antenna technology capable of transmitting multiple data streams from multiple transmitters to multiple receivers. SLM868 also combines High-sensitivity GNSS receiver for positioning.

A rich set of protocols (TCP/FTP/HTTP) and multiple OS compatibility extend the applicability of the module to a wide range of M2M applications.

Key Technologies:

- ▣ LTE-A Cat16 (SLM868L) has a maximum downlink rate of 1 Gbps and a maximum upstream rate of 50 Mbps.
- ▣ Max 4×4 MIMO Technology
- ▣ Support 2CA, 3CA, 4CA
- ▣ Qualcomm® IZat™ Gen 8C engine, Support GPS/GLONASS/BeiDou
- ▣ Support Voice Codec (HR/FR/EFR/AMR/AMR-WB), Support SRLTE/CSFB/VOLTE (optional)
- ▣ USB2.0/USB3.0 High Speed Interface
- ▣ TCP/IP Embedded Protocol Stacks



LTE-A



PCM



ADC



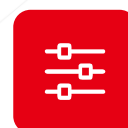
MIMO



Wi-Fi



GNSS



UART



VoLTE

MeiG Smart SLM868 Module

LTE-A Cat 6/Cat 16 LGA Packaging Module

MEIG 美格

Stock Code 002881

General Features:

- Package: LGA Package (311pin)
- Size: 40.0×40.0×3.5mm
- Weight: < 15g
- Supply Voltage: 3.8V~4.2V, Typ 4.0V
- Sleep Power: < 5mA
- Package: Mini-PCIe Package (52 pin)
- Size: 50.95×42.0×6.65mm
- Weight: < 18g

Data Features:

- LTE (Cat 16): Max 1Gbps(DL)/50Mbps(UL)
- LTE (Cat 12): Max 600Mbps(DL)/50Mbps(UL)
- LTE (Cat 6): Max 300Mbps(DL)/50Mbps(UL)
- DC-HSPA+: Max 42Mbps(DL)/5.76Mbps(UL)
- WCDMA: Max 384kbps(DL)/384kbps(UL)
- EDGE: Max 296Kbps kbps(DL)/236.8kbps(UL)
- GPRS: Max 107 kbps(DL)/85.6kbps(UL)

Transmit Power:

- GSM850/900 33±2dBm, GSM1800/1900 30±2dBm, WCDMA/HSPA 23+1/-3dBm, LTE 23±2.7dBm

Protocols:

- TCP*/UDP*/SSL*/HTTP(S)*/FTP*/PPP/PING/DTMF*/QMI

Drivers & Tools:

- Drivers: Windows XP, Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Linux, Android
- Tools: One Click update tool, Gobinet Dial Tool
- *FOTA upgrade

Interfaces:

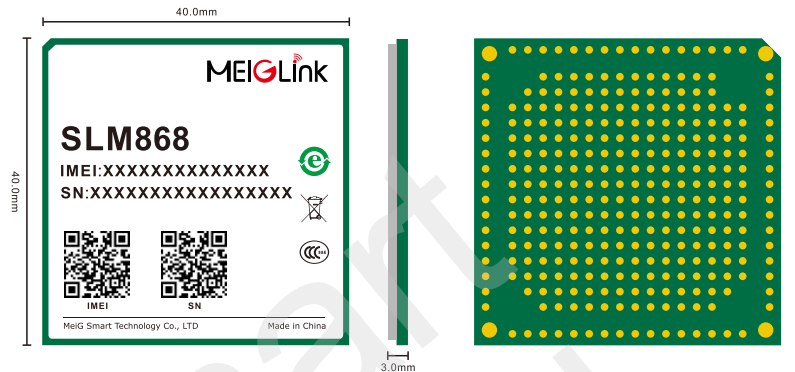
- USB 2.0/USB 3.0
- UART×3
- SIM card Interface(1.8 / 3.0V)
- Antenna Interface: Main/Diversity/GNSS (Optional)
- I2C×1
- SDIO×1
- Power On/Off, Reset
- ADC×2
- SPI×1
- PCM×1
- PCIe×1
- GPIOs

Working Environment:

- Restrict Working Temperature: -40°C to 85°C
- Storage Temperature: -45°C to 90°C
- Humidity: 5%~95%

Authentication information:

- CE/FCC/PTCRB



Band Description of SLM868:

PID	Frequencies	C A	GNSS	PCM/ Analog voice
SLM868-LA	LTE-FDD: B2/B4/B5/B7/B12/B13/B17/B25/B26/B66 LTE-TDD: B41 WCDMA: B2/B4/B5 GSM: 850/1900	2CA Combination: B2+B2/B4/B5/B7/B12/B13/B17/B66 B4+B4/B5/B7/B12/B13/B17 B5+B5/B7/B25 B7+B7/B12 B12+B12/B25/B66 B13+B66 B25+B25/B26/B41 B26+B41 B41+B41 3CA Combination 4CA Combination	Option	Option
SLM868-LSA	LTE-FDD: B2/B4/B5/B7/B8/B20/B28 WCDMA: B2/B4/B5/B8 GSM: 850/900/1900	2CA Combination: B2+B2/B4/B5/B7/B28 B4+B4/B5/B7/B28 B5+B5/B7 B7+B7/B28 3CA Combination 4CA Combination	Option	Option
SLM868-LE	LTE-FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 WCDMA: B1/B3/B5/B8 GSM: 850/900/1800	2CA Combination: B1+B1/B3/B5/B7/B8/B20/B28/B38/B40/B41 B3+B3/B5/B7/B8/B20/B28/B38/B40/B41 B5+B5/B7/B40 B7+B7/B8/B20/B28 B8+ B40/B41 B38+B38 B40+B40 B41+B41 Support 3CA, 4CA	Option	Option
SLM868-LAPAC	LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B26 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B3/B5/B6/B8/B9/B19 GSM: 850/900/1800	2CA Combination: B1+B1/B3/B5/B7/B8/B18/B19/B26/B38/B40/B41 B3+B3/B5/B7/B8/B19/B26/B38/B40/B41 B5+B5/B7/B40 B7+B7/B8 B8+ B40/B41 B38+B38 B40+B40 B41+B41 Support 3CA, 4CA	Option	Option
SLM868-H	LTE-FDD: B1/B2(B39)/B3/B4/B5/B7(B30)/B8/B12/B13(B28/B71)/B17/B18/B19/B20/B26/B66 LTE-TDD: B38(B39)/B40/B41/B42/B43 WCDMA: B1/B2/B3/B4/B5/B6/B8/B9/B19 GSM: 850/900/1800/1900	2CA Combination: B3CA Combination 4CA Combination	Option	Option

MeiG Smart Technology Co., Ltd

A Global Leading IoT Terminals and Wireless Data Solutions Provider

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MeiG Official Wechat QR Code