



# MeiG Smart SLM828G Module

IoT/M2M-optimized LTE-A LGA Module

MeiG SLM828G is a series of LTE Advanced category 6/12 module optimized specially for M2M and IoT applications.

SLM828G designed in an LGA form factor, which supports LTE-TDD/LTE-FDD/WCDMA 3 modes. Adopting the 3GPP Rel.12 LTE technology, it delivers M2M-optimized speeds of 600Mbps downlink and 150Mbps uplink peak data rates.

SLM828G supports Qualcomm® IZat™ location technology Gen9HT-Lite (GPS, GLONASS, BeiDou, Galileo and QZSS). The integrated GNSS greatly simplifies product design, and provides quicker, more accurate and more dependable positioning capability.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 7/8/8.1/10, Linux, Android) extend the applicability of the module to a wide range of M2M and IoT applications such as 4G router, CPE, wireless POS terminal, consumer laptop, industrial PDA, rugged tablet PC and video surveillance.

## Key Technologies:

- ▣ SLM828G has a maximum downlink rate of 600Mbps and a maximum upstream rate of 150Mbps.
- ▣ Support DL 2CA, 3CA
- ▣ Qualcomm® IZat™ Gen 8C engine, Support GPS/ GLONASS/BeiDou/Galileo
- ▣ 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

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MEIG

IoT/M2M-optimized LTE-A LGA Module

## General Features:

- ☑ LTE FDD/LTE TDD/WCDMA
- ☑ Bandwidth:1.4/3/5/10/15/20MHz
- ☑ LGA :37\*39.5\*2.8mm ,299-pin
- ☑ Weight: < 10g
- ☑ Operating Voltage: 3.3V~4.4V typical 3.8V
- ☑ AT Command Set: 3GPP TS 27.007 and 27.005

## TX Power:

- ☑ WCDMA : 23.5dBm±2dBm
- ☑ LTE FDD: 23.0dBm±2dBm
- ☑ LTE TDD: 23.0dBm±2dBm
- ☑ MIMO: 2 × 2, 4 × 2, 4 × 4 DL
- ☑ GNSS: GPS/GLONASS/BeiDou/Galileo/QZSS

## Data Features:

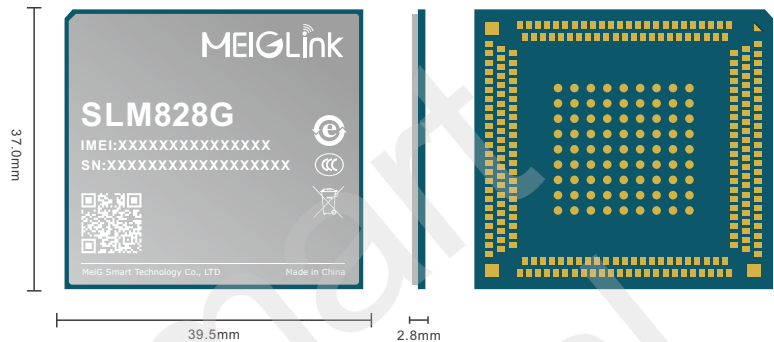
- ☑ Cat.6:  
LTE:UL:50Mbps DL:300Mbps  
WCDMA:UL:11Mbps DL:42Mbps
- ☑ Cat.12:  
LTE:DL:600Mbps UL:150Mbps  
WCDMA:UL:11Mbps DL:42Mbps

## Function:

- ☑ SMS : MO/MT Text and PDU modes
- ☑ DHCP/TCP/UDP/IPV4/IPV6/PPP/ECM/RNDIS/GobiNet/QMI\_WWAN
- ☑ DFOTA/FOTA
- ☑ VoLTE/Audio/Recording/BIP
- ☑ GNSS/LBS/CellID

## Temperature:

- ☑ Normal Operation: -30~+75°C
- ☑ Extended operation: -40~+85°C
- ☑ Storage Temperature: -40~+90°C



## Interfaces:

- ☑ SIM Card: 1.8V/2.85V
- ☑ USB 3.0/2.0
- ☑ UART
- ☑ GPIO
- ☑ PCIe
- ☑ I2C
- ☑ PCM/I2S
- ☑ ADC
- ☑ SDIO
- ☑ SPI
- ☑ Antenna:Main/Div/GNSS/MIMO

## Driver:

- ☑ Linux/Android/Windows

## Approvals:

- ☑ Carrier:TBD
- ☑ Regulatory:  
CE (Europe)  
RCM (Australia/New Zealand)  
FCC
- ☑ Others:  
RoHS Compliant



### SLM828G Cat.6 RF Info:

Model	SLM828G-EU-06XX	SLM828G-LA-06XX	SLM828G-NA-06XX
Category	6	6	6
LTE	LTE-FDD	B1/3/5/7/8/20/28/32	B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71
	LTE-TDD	B38/39/40/41/42/43	B41
	DL 2CA	B1+B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42; B3+B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42; B5+B5/B7/B38/B40/B41/B42; B7+B7/B8/B20/B28/B32; B8+B32/B38/B39/B40/B41/B42; B20+B32/B38/B40/B42; B28+B32/B38/B40/B41/B42; B38+B38; B39+B39/B41; B40+B40/B42; B41+B41/B42; B42+B42.	B2+B2/B4/B5/B7/B28/B66; B4+B4/B5/B7/B28; B5+B5/B7/B38/B40/41/48/66; B7+B7/B8/B20/B28/B42/B66; B8+B38/B39/B40/B41/B42; B20+B38/B40/B42; B28A+B38/B40/B41/B42; B38+B38; B39+B39/B41; B40+B40/B42; B41+B41/B42; B42+B42; B66+B66.
4*4 MIMO	B1/B3/B7/38/39/B40/B41/B42/B43	B2/4/7/66/38/40/41/42/43	B2/4/7/66/41
WCDMA	B1/3/5	B2/4/5	B2/4/5
GSM	No support	No support	No support
GNSS	GPS/GLONASS/BeiDou/Galileo/QZSS	GPS/GLONASS/BeiDou/Galileo/QZSS	GPS/GLONASS/BeiDou/Galileo/QZSS

### SLM828G Cat.12 RF Info:

Model	SLM828G-EU-12XX	SLM828G-LA-12XX	SLM828G-NA-12XX	
Category	12	12	12	
LTE	LTE-FDD	B1/3/5/7/8/20/28/32	B2/B4/B5/B7/B12/B13/B17/B25/B26/B66/B71	
	LTE-TDD	B38/39/40/41/42/43	B41	
	DL 3CA	B1+B1+B3/B5/B7/B28/B41; B1+B3+B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42; B1+B5+B7/B38/B40; B1+B7+B7/B8/B20/B28/B42; B1+B8+B40; B1+B20+B32/B42; B1+B28+B42; B1+B40+B40; B1+B41+B41/B42; B1+B42+B42; B3+B3+B5/B7/B8/B20/B28/B41; B3+B5+B7/38/40; B3+B7+B7/B8/B20/B28/B32/B42; B3+B8+B38/B40; B3+B20+B32/B38/B42; B3+B28+B38/B40/B41/B42; B3+B40+B40; B3+B41+B41/B42; B5+B7+B7; B5+B40+B40; B7+B7+B8/B20/B28; B7+B20+B32+B42; B8+B39+B39; B8+B40+B40; B8+B41+B41; B8+B42+B42; B20+B38+B38; B20+B40+B40; B28+B40+B40; B28+B41+B41/B42; B39+B41+B41; B40+B40+B40/B42; B41+B41+B41; B42+B42+B42.	B2+B2+B4/B5/B66; B2+B4+B4/B5/B7/28; B2+B5+B5/B48/B66; B2+B7+B7/B66; B2+B66+B66; B4+B4+B5/B7; B4+B5+B5; B4+B7+B7; B5+B5+B66; B5+B7+B7; B5+B40+B40; B5+B48+B48; B5+B66+B66; B8+B39+B39; B8+B40+B40; B8+B41+B41; B8+B42+B42; B20+B38+B38; B20+B40+B40; B28+B40+B40; B28+B41+B41/42; B28+B42+B42; B39+B39+B41; B39+B41+B41; B40+B40+B40/B42; B40+B42+B42; B41+B41+B41/B42; B41+B42+B42; B42+B42+B42; B66+B66+B66.	B2+B2+B4/B5/B7/B12/B13/B66/B71; B2+B4+B4/B7/B12/B13/B71; B2+B5+B12/66; B2+B7+B7/B12/B66; B2+B12+B12/66; B2+B13+B66; B2+B66+B66/B71; B4+B4+B5/B7/B12/B13/71; B4+B7+B7/B12; B4+B12+B12; B5+B5+B66; B5+B7+B7; B7+B66+B66; B12+B66+B66; B13+B66+B66; B25+B25+B26/B41; B25+B26+B41; B26+B41+B41; B41+B41+B41; B66+B66+B66/B71.
	DL 2CA	B1+B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42; B3+B3/B5/B7/B8/B20/B28/B32/B38/B40/B41/B42; B5+B5/B7/B38/B40/B41/B42; B7+B7/B8/B20/B28/B32; B8+B32/B38/B39/B40/B41/B42; B20+B32/B38/B40/B42; B28+B32/B38/B40/B41/B42; B38+B38; B39+B39/B41; B40+B40/B42; B41+B41/B42; B42+B42.	B2+B2/B4/B5/B7/B28/B66; B4+B4/B5/B7/B28; B5+B5/B7/B38/B40/41/48/66; B7+B7/B8/B20/B28/B42/B66; B8+B38/B39/B40/B41/B42; B20+B38/B40/B42; B28A+B38/B40/B41/B42; B38+B38; B39+B39/B41; B40+B40/B42; B41+B41/B42; B42+B42; B66+B66.	B2+B2/B4/B5/B7/B12/B13/B66/71; B4+B4/B5/B7/B12/B13/71; B5+B5/B7/25/41/66; B12+B12/B25/B66; B13+B66; B25+B25/B26/B41; B26+B41; B41+B41; B66+B66/B71.
	UL 2CA	CA_3C/5B/7C/38C/40C/41C/42C	CA_38C/40C/41C/42C	41C
4*4 MIMO	B1/B3/B7/38/39/B40/B41/B42/B43	B2/4/7/66/38/40/41/42/43	B2/4/7/66/41	
WCDMA	B1/3/5	B2/4/5	B2/4/5	
GSM	No support	No support	No support	
GNSS	GPS/GLONASS/BeiDou/Galileo/QZSS	GPS/GLONASS/BeiDou/Galileo/QZSS	GPS/GLONASS/BeiDou/Galileo/QZSS	

