



# MeiG Smart SLM828 Module

LTE-A Cat.6 Mini PCIe Packaging Module

MeiG Smart SLM828 is LTE Advanced module optimized specially for M2M and IoT applications.

Adopting the 3GPP Rel.12 LTE technology and CA technology, it delivers maximum 300Mbps downlink and 50Mbit/s uplink peak data rates.

SLM828 LTE-A module contains two variants: SLM828-EU and SLM868-NA.

SLM828 module adopts MIMO technology, a cutting edge antenna technology capable of transmitting multiple data streams from multiple transmitters to multiple receivers. SLM828 also combines Highsensitivity 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:

- ▣ SLM828 has a maximum downlink rate of 300Mbps and a maximum upstream rate of 50Mbps.
- ▣ Support DL 2CA, 3CA
- ▣ 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

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MEIG

## General Features:

- Package: MiniPCIe package (52pin)
- Size: 51.0×30.0×4.5mm
- Weight: < 10g
- Supply Voltage: 3.1V~4.2V, Typ 3.3V
- Sleep Power: < 5mA

## Data Features:

- LTE (Cat.6): Max 300Mbps(DL)/50Mbps(UL)
- DC-HSPA+: Max 42Mbps(DL)/5.76Mbps(UL)
- WCDMA: Max 384kbps(DL)/384kbps(UL)

## Transmit Power:

- 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

## Working Environment:

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

## Band Description of SLM828:

PID	Frequencies	CA	GNSS
SLM828-EU	LTE-FDD: B1/B3/B5/B7/B8/B20/B28/B32 LTE-TDD: B38/B40/B41 WCDMA: B1/B3/B5/B8	Intra contiguous: CA_1C, CA_3C, CA_5B, CA_7B, CA_7C, CA_8B, CA_38C, CA_40C, CA_41C; Intra Non-contiguous: CA_1A-1A, CA_3A-3A, CA_5A-5A, CA_7A-7A, CA_40A-40A, CA_41A-41A; Inter band CA: CA_1A-3A, CA_1A-5A, CA_1A-7A, CA_1A-8A, CA_1A-20A, CA_1A-28A, CA_1A-38A, CA_1A-40A, CA_1A-41A, CA_3A-5A, CA_3A-7A, CA_3A-8A, CA_3A-20A, CA_3A-28A, CA_3A-38A, CA_3A-40A, CA_3A-41A, CA_5A-7A, CA_5A-38A, CA_5A-40A, CA_5A-41A, CA_7A-8A, CA_7A-20A, CA_7A-28A, CA_7A-32A, CA_8A-32A, CA_8A-38A, CA_8A-40A, CA_8A-41A, CA_20A-32A, CA_20A-38A, CA_20A-40A, CA_28A-32A, CA_28A-38A, CA_28A-40A, CA_28A-41A	Option
SLM828-NA	LTE-FDD: B2/B4/B5/B7/B12/B13/14/17/ B25/B26/B29/B30/B66/B71 WCDMA: B2/B4/B5	Intra contiguous: CA_2C, CA_5B, CA_7B, CA_7C, CA_12B; Intra Non-contiguous: CA_2A-2A, CA_4A-4A, CA_5A-5A, CA_7A-7A, CA_12A-12A, CA_25A-25A, CA_66A-66A; Inter band CA: CA_2A-4A, CA_2A-5A, CA_2A-7A, CA_2A-12A, CA_2A-13A, CA_2A-14A, CA_2A-29A, CA_2A-30A, CA_2A-66A, CA_2A-71A, CA_4A-5A, CA_4A-7A, CA_4A-12A, CA_4A-13A, CA_4A-29A, CA_4A-71A, CA_5A-7A, CA_5A-25A, CA_5A-30A, CA_5A-66A, CA_7A-12A, CA_7A-20A, CA_7A-28A, CA_12A-25A, CA_12A-30A, CA_12A-66A, CA_13A-66A, CA_14A-30A, CA_14A-66A, CA_25A-26A, CA_29A-30A, CA_29A-66A, CA_66A-71A	Option



## 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

## Authentication information:

- CE/FCC/PTCRB

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