



# MeiG Smart SLM828 Module

LTE-A Cat.6 Mini PCIe Packaging Module

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

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

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

SLM828 module adopts MIMO technology, a cutting edge antenna technology capable of transmit multiple data streams from multiple transmitters to multiple receivers. SLM828 also combines High sensitivity GNSS receiver for positioning.

A rich set of protocols (TCP/FTP/HTTP) and multiple OS compatibility extend the applicability of SLM828 module to a wide range of M2M applications.

## Key Technology Feature

- ▣ SLM828 has a maximum downlink rate of 300Mbps and a maximum uplink 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



ADC



MIMO



Wi-Fi



GNSS



VoLTE

# MeiG Smart SLM828 Module

MEIG

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## 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\*/PPPoE\*/PING/DTMF\*/QMI

## Drivers & Tools:

- Drivers Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Linux, Android
- Tools Clock update tool, Gobinet Dial Tool
- \*FOTA upgrade

## Working Environment:

- Restrict Working Temperature -40 to 85°C
- Storage Temperature -45 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-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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