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MeiG Smart SLM156 Module
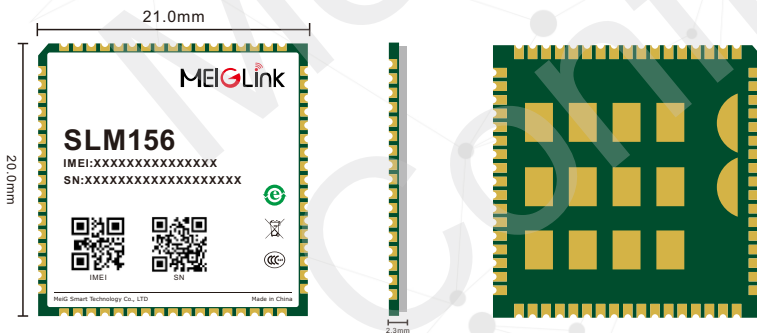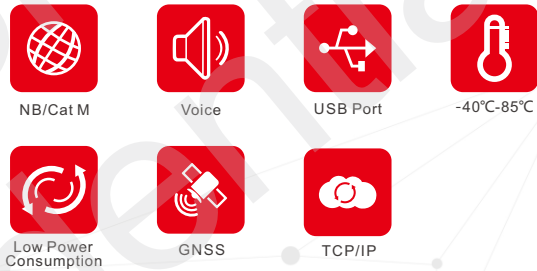
NB-IoT/Cat M/EGPRS LCC Packaging Module

MeiG Smart SLM156 is a high-performance module with multiple modes of NB-IoT/Cat M/EGPRS. It features extremely low power consumption and ultra-compact size of 21x20x2.3mm profile to ideally suit to sensitive applications, such as smart metering, smart parking, smart city, security and asset tracking, agriculture and environmental monitoring, etc.

SLM156 adopts LCC package to make it as an ideal solution of durable and rugged designs, especially for large-scale manufacturing, which has strict requirements for cost and efficiency.

The complete GPS and Voice services meet client-side demands for wide range of M2M applications

Key Technology:

- Support NB-IoT/Cat M/EGPRS Modes
- Support Rel.14 LTE Cat.M1 & NB2
- LCC package with ultra-compact size
- Extremely low power consumption
- Embedded Internet service protocols
- Industrial level temperature range
- Fast time to market. Reference designs and timely technical support to accelerate the customer's development.
- Basic functions to suit M2M wide range of applications

NB/Cat M Voice USB Port -40℃-85℃

Low Power Consumption GNSS TCP/IP

Electrical Characteristics:

- Supply Voltage:3.3–4.2 V, 3.8 V Typ.
- Output Power:Max. Power:21dBm
- Consumption @ LTE Cat M1 (mA) (Typical):
  Sleep Mode:1.65@ DRX = 1.28 s 0.63 @ e-IDRX = 81.92 s
  Idle Mode:18.9 @ DRX = 1.28 s 18.2 @ e-I-DRX = 81.92 s
  Active Mode:199 @ 21 dBm, GNSS of
- Consumption @ LTECat NB1 (mA) (Typical):
  Sleep Mode: 1.56 @ DRX = 1.28 s ;0.67 @ e-IDRX = 81.92 s
  Idle Mode: 14.8 @ DRX = 1.28 s ;14.3 @ e-I-DRX = 81.92 s
  Active Mode: 172 @ 21 dBm, GNSS of

Band Description of SLM156:

PID	Frequencies	GNSS
SLM156	Cat NB：B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85 Cat M：B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85 GPRS：850/900/1800/1900	Support

General Features:

- Package：LCC Package（80pin）
- Size：21.0×20.0×2.3mm
- Weight：3g

Environmental:

- Working Temperature:-35℃ to 75℃
- Storage Temperature:-45℃ to 90℃
- Humidity:5%~95%

Interfaces:

- High Speed USB 2.0
- UART
- SIM Card Interface
- I2C
- Power On/Off,Reset
- ADC
- LED
- PCM/I2S
- Network Status indication

Data Features:

- Cat M1: DL：588Kbps/UL: 1119Kbps
- Cat NB2: DL：127Kbps/UL 158.5Kbps

Protocols:

- TCP,IPv4/IPv6,CoAP,MQTT,OMA LW M2M, DTLS,DNS client,ping HTTP client

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