

# MeiG-SLM500Q

## Multi-Mode Smart LTE Module

### Support Wi-Fi & BT



SLM500Q series modules, based on Qualcomm QCM2150 platform of Snapdragon 200 series. Its CPU uses 28nm FinFET process, with a 64-bit arm and 4-core A53(4\*1.3GHz) application processor. It supports decode/encode up to 1080P@30fps, H.264, HD+ screen resolution, and dual ISP cameras. SLM500Q is equipped with Android 10 operating system and a board memory of 1GB+8GB (2GB+16GB, and 3GB+32GB). It supports LTE Cat4, with a maximum downlink rate of 150Mbps and a maximum uplink rate of 50Mbps. This broadband smart module integrates GNSS and 2.4&5G Wi-Fi, supports multi-modes of connectivity including TD-LTE/FDD-LTE/WCDMA/EVDO/TD-SCDMA/CDMA/GSM.

SLM500Q series modules include: SLM500Q-C, SLM500Q-E, SLM500Q-A, SLM500Q-LA, SLM500Q-J, SLM500Q-AU, SNM500Q.

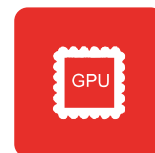
SLM500Q can provide functions such as voice, SMS, address book, 2.4G/5G WiFi, BT and GNSS. It supports dual 800W 3D camera or the depth-of-field camera, which can be widely used in intelligent POS cash registers, logistics terminals, VR Camera, intelligent robots, video recorder, security, automotive equipment, intelligent information collection equipment, intelligent handheld terminals and other products.

### Main Advantage

- ✓ Support LTE Cat 4, MAX DL 150Mbps
- ✓ Support multi-modes of cellular connectivity
- ✓ Support main screen display HD+ (1440x720) @60pfs
- ✓ Support Dual ISP, Dual Camera (8M+8M) 13MP camera
- ✓ Integrated multi-constellation GNSS receivers, fast and accurate positioning in different environments
- ✓ Support 1080P @30fps video en/decode



Qualcomm4\*  
A53@1.3GHz



Qualcomm  
Adreno 308 Up  
to 485MHz



Android 10



Cat4  
DL: 150Mbps(DL)  
UL: 50Mbps(UL)



BT 4.2  
(BR/DDR+BLE)



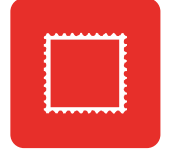
IEEE 802 11  
a/b/g/n/ac



GPS+BeiDou+  
GLONASS



H.264,  
HEVC, VP8

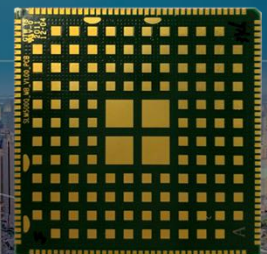


LCC+LGA

# MeiG-SLM500Q

## Multi-Mode Smart LTE Module

### Support Wi-Fi & BT



#### China/India

SLM500Q-C:

LTE FDD: B1/B3/B5/B8

LTE TDD: B34/B38/B39/B40/B41(100M)

WCDMA: B1/B8

TD-SCDMA: B34/B39

EVDO/CDMA: BC0

GSM: 900/1800MHz

#### EMEA

SLM500Q-E:

LTE FDD: B1/B3/B5/B7/B8/B20/B28A

LTE TDD: B38/B40/B41(100M)

WCDMA: B1/B5/B8

GSM: 850/900/1800MHz

#### North America

SLM500Q-A:

LTE FDD: B2/B4/B5/B7/B12/B13/B17/B25/B26/

B66 WCDMA: B2/B4/B5/B8

GSM: 850/1900MHz

#### Australia/Taiwan/Brazil

SLM500Q-AU:

LTE FDD: B1/B3/B5/B7/B8/B28

LTE TDD: B40

WCDMA: B1/B5/B8

GSM: 850/900/1800MHz

#### Japan

SLM500Q-J:

LTE FDD: B1/B3/B8/B18/B19/B26

LTE TDD: B41(100M)

WCDMA: B1/B6/B8/B19

#### Latin America

SLM500Q-LA:

LTE-FDD: B2/B4/B5/B7/B8/B25/B28/B66

LTE TDD: B40

WCDMA: B2/B5/B8

GSM: 850/900/1900MHz

#### Global

SNM500Q:

Wi-Fi & BT only

#### Features

LTE:

Cat 4 FDD: 150Mbps (DL)/50Mbps

(UL) Cat 4 TDD: 117Mbps

(DL)/30Mbps (UL) UMTS:

DC-USDPA: 42Mbps (DL)

HSUPA: 5.76Mbps (UL)

WCDMA: 384Kbps (DL/UL)

TD-SCDMA:

4.2Mbps (DL)/2.2Mbps (UL)

CDMA2000:

EVDO: 3.1Mbps (DL)/1.8Mbps (UL)

1 x Advanced: 307.2Kbps (DL/UL)

#### GSM:

GPRS: 107Kbps (DL)/85.6Kbps (UL)

EDGE: 236.8Kbps (DL)/236.8Kbps (UL)

#### Electrical parameters

Power supply voltage: 3.55V~4.4V, typical value: 3.8V

#### Output power:

Class 4 (33dBm±2dB) for GSM850

Class 4 (33dBm±2dB) for EGSM900

Class 1 (30dBm±2dB) for DCS1800

Class 1 (30dBm±2dB) for PCS1900

Class E2 (27dBm±3dB) for GSM850 8-PSK

Class E2 (27dBm±3dB) for EGSM900 8-PSK

Class E2 (26dBm±3dB) for DCS1800 8-PSK

Class E2 (26dBm±3dB) for PCS1900 8-PSK

Class 3 (24dBm+1/-3dB) for WCDMA bands

Class 3 (24dBm+3/-1dB) for EVDO/CDMA BC0 Class 2

(24dBm+1/-3dB) for TD-SCDMA bands Class 3 (23dBm

±2dB) for LTE-FDD bands

Class 3 (23dBm±2dB) for LTE-TDD bands

#### Sensitivity :

LTE FDD B1: B1:-97dBm@10MHz BW

LTE FDD B3: -94dBm@10MHz BW

LTE FDD B5:-95dBm@10MHz BW

LTE FDD B8: -94dBm@10MHz BW

LTE FDD B12: -94dBm@10MHz BW

LTE FDD B13: -94dBm@10MHz BW

LTE FDD B26:-94.5dBm@10MHz BW

LTE FDD B28: -94dBm@10MHz BW

LTE TDD B34: -97dBm@10MHz BW

LTE TDD B38: -97dBm@10MHz BW

LTE TDD B39: -97dBm@10MHz BW

LTE TDD B40: -97dBm@10MHz BW

LTE TDD B41: -95dBm@10MHz BW

WCDMA B1: < -109dBm

WCDMA B8: -109dBm TD-SCDMA B34: < -110dBm

TD-SCDMA B39: < -110dBm

EVDO/CDMA BC0: < -110dBm

EGSM900: < -108dBm

DCS1800: < -108dBm

#### Audio & Video

Support VoLTE Ultra HD voice calls SRVCC/

CSFB voice fallback technology 24-bit/192kHz

High fidelity music playback

Video codec: 1080P @30fps

WiFi video: codec 1080P @30fps

Analog audio: speaker, receiver, earphone, 3

sets of microphones

Supports 1 set of noise reduction microphones

#### LCM:

4-lane MIPI\_DSI

HD+(1440×720) @60fps

#### Camera interfaces

Main Camera: 4-lane MIPI\_CSI;

Auxiliary Camera: 2-lane MIPI\_CSI ;

Max rate: 2.1Gbps/Lane;

Support 13M pixels

Touch screen interface: capacitive touch screen

#### Interfaces:

USB: Conform to USB 2.0 standard,

support USB OTG

I2C: x5

(U)SIM: x2 (1.8V/2.95V)

UART: x3 (support HW flow control, MAX 4Mbps)

SD card: x1 (SD 3.0, 4-bit SDIO)

PWRKEY: 1.8V, Internal pull-up

SPI: x5

ADC: x2

GPIO: \*24

Motor drive: x1

LED: x1

Antenna: main antenna, diversity antenna, GNSS

antenna, WiFi & BT antenna

#### Outstanding Features

WLAN: 2.4G/5G, 802.11 a/b/g/n/ac

BT :BT2.1+EDR/3.0/4.1 LE/4.2 BLE

GNSS: GPS/GLONASS/BeiDou

LTE Cat4,

Support diversity receiving antenna, DL MIMO 2×2

Support 3GPP E-UTRA Release 12

Bandwidth: 1.4/3/5/10/15/20MHz

Built-in charging chip and electricity meter,

Support double card double stay

Firmware update via USB

#### General Features

OS: Android 10

Storage:

8GB eMMC+1GB LPDDR3 (default)

16GB eMMC+2GB LPDDR3 (optional)

Operating Temp: -30°C ~ +75°C

Storage Temp: -40°C ~ +85°C

Size: 40.5mm × 40.5mm × 2.8mm

Package: LCC+LGA

Weight: 13.0g