

# MeiG-SLM500S

## Multi-mode Smart LTE Module

### Support Wi-Fi & BT



SLM500S series core board adopts UNISOC SL8541E platform. Its CPU adopts 28nm FinFET process, with 64bit ARM, 4-core A53(4\*1.4GHz) built-in. It supports decode/encode up to 1080P@30fps, H.264, supports HD+ screen resolution and dual ISP cameras. With Android10.0 operating system, it supports board memory of 1GB+8GB(2GB+16GB), LTE Cat4, and the maximum downlink rate can reach 150Mbps. The module integrates GNSS and 2.4G&5G Wi-Fi, supports multi-modes of connectivity including TD-LTE/FDD-LTE/WCDMA/GSM.

SLM500S series modules include: SLM500S-C、SLM500S-E、SLM500S-LA、SLM500S-AU、SNM500S.

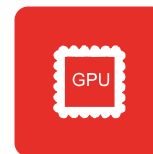
SLM500S can provide voice, SMS, address book, 2.4G&5G Wi-Fi, BT and GPS functions; It supports dual 8 million 3D camera and depth-of-field camera, and can be widely used in body camera, intelligent POS cash registers, logistics terminals, VR camera, intelligent robots, security monitoring, automotive equipment, intelligent information collection equipment, intelligent handheld terminals, UAV and other products.

### Main Advantages

- ✓ Support LTE Cat 4  
Max DL: 150Mbps
- ✓ Support multi-modes of cellular connectivity
- ✓ Support main screen HD+ (1440x720), @60pfs
- ✓ Support dual cameras (8M+5M)  
Support 8MP camera
- ✓ Integrate multi-constellation GNSS receivers,  
fast and accurate positioning in different environments
- ✓ Support 1080P @30fps video playing and recording



UNISOC  
4\*A53 1.4GHz



Mali T820  
MP1 680MHz



Android 9.0  
/10.0



Cat4  
150Mbps(DL)  
50Mbps(UL)



BT 4.2  
(BR/EDR+BLE)



IEEE 802.11  
b/g/n



GPS+BeiDou+  
GLONASS



H.264,  
HEVC,VP8

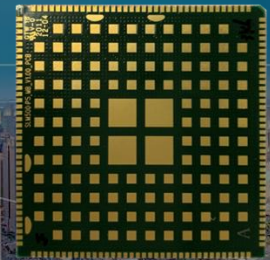


LCC+LGA

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## Multi-mode Smart LTE Module

### Support Wi-Fi & BT



#### China/India

SLM500S-C:

LTE FDD: B1/B3/B5/B8

LTE TDD: B34/B38/B39/B40/B41

WCDMA: B1/B8

GSM: 900/1800MHz

#### Europe/Middle East/Africa/Korea/Thailand

SLM500S-E:

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

LTE TDD: B38/B40/B41

WCDMA: B1/B5/B8

GSM: 850/900/1800/1900MHz

#### Australia/Taiwan/Brazil/Latin America

SLM500S-AU/LA:

LTE FDD: B2/B4/B5/B7/B8/B28

LTE TDD: B34/B38/B39/B40/B41

WCDMA: B2/B4/B5/B8

GSM: 850/900/1800/1900MHz

#### WiFi only

SNM500S:

Only support Wi-Fi & BT

#### 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)

GSM:

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

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

#### Electrical Parameters

Power supply voltage:

3.5V~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 (23dBm±2dB) for LTE-FDD bands

Class 3 (23dBm±2dB) for LTE-TDD bands

#### Sensitivity

LTE FDD B1: -97dBm

LTE FDD B3: -94dBm

LTE FDD B5: -95dBm

LTE FDD B7: -95dBm

LTE FDD B8: -94dBm

LTE FDD B20: -94dBm

LTE TDD B34: -97dBm

LTE TDD B38: -97dBm

LTE TDD B39: -97dBm

LTE TDD B40: -97dBm

LTE TDD B41: -95dBm

WCDMA B1: -110dBm

WCDMA B5: -110dBm

WCDMA B8: -110dBm

EGSM900: -109dBm

DCS1800: -109dBm

#### Audio & Video

Support VoLTE Ultra HD voice calls,

SRVCC/CSFB voice fallback technology

24-bit/192kHz high fidelity music playback

Video codec: 1080P @60fps

Wi-Fi video: codec 1080P @30fps

#### Interfaces

LCM interface:

4-lane MIPI\_DSI

HD+(1440×720) @60fps

Touch screen interface: capacitive touch screen

#### Camera Interfaces:

Main Camera: 2-lane MIPI\_CSI;

Auxiliary Camera: 1-lane MIPI\_CSI ;

Highest speed 2.1Gbps/Lane;

8M pixels photo taking

#### Audio Interfaces:

Analog audio: speaker\*1, receiver\*1, earphone\*1,

microphone\*2

#### USB Interfaces:

USB 2.0

I2C interface: up to 3 sets

(U)SIM interface: 3 sets (1.8V/2.95V)

UART interface: supports up to 2 sets (4+2)

SD card interface: 1 set

PWRKEY: 1.8v, internal pull-up

SPI interface: up to 2 sets

ADC interface: 1 set

GPIO interface: \*21

Motor drive interface: support

LED indicating interface: support

Antenna interface: main antenna, diversity antenna,

GNSS antenna and Wi-Fi & BT antenna interface

#### Outstanding Features

WLAN2.4G , 802.11 b/g/n

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, supports 5V@1A,

Support dual SIM dual standby

Firmware update via USB

#### General Features

OS: Android 9.0./10.0

Memory:

8GB eMMC+1GB LPDDR3 (default)

16GB eMMC+2GB LPDDR3 (optional)

Working Temperature: -30°C ~ +75°C

Storage Temperature: -40°C ~ +85°C

Module Size: 40.5mm × 40.5mm × 2.85mm

Package: LCC+LGA

Weight: about 13.0g

Certification

CCC(China)/CE/RCM/ROHS

\* means developing