

MeiG-SLM550

Multi-mode Smart LTE Module

Support Wi-Fi & BT



SLM550 series core board is based on QUALCOMM Snapdragon 200 series QCM2290. Its CPU uses 11nm FinFET process, with 64-bit Arm and 4-core A53(4*2.0GHz) built-in. It supports decode/encode up to 1080P@30fps, H.264, supports HD+ screen resolution and two ISP cameras. It runs on Android 11/12/13 operating system, supports board memory of 2GB+16GB(1GB+8GB, 2GB+32GB, 4GB+64GB), supports LTE Cat4, and has a maximum downlink rate of 150Mbps and a maximum uplink rate of 50Mbps. The 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.

SLM550 series modules include: SLM550-C, SLM550-E, SLM550-A, SLM550-LA, SLM550-J*, SLM550-AU*, SNM550.

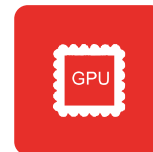
SLM550 can provide voice, SMS, address book, 2.4G/5G Wi-Fi, BT and GPS functions; It supports dual 8 million 3D camera or depth-of-field camera, and can be widely used in police intelligent POS cash registers, logistics terminals, VR Camera, intelligent robots, video surveillance, security surveillance, vehicle-mounted equipment, intelligent information collection equipment, intelligent handheld terminals and other products.

Main Advantages

- ✓ Support LTE Cat 4
Max DL: 150Mbps
- ✓ Support multi-modes of cellular connectivity
- ✓ Support main screen HD+ (720*1680), @60pfs
- ✓ Support Dual ISP, dual camera (13M+13M)
21MP camera
- ✓ Integrate multi-constellation GNSS receivers,
fast and accurate positioning in different environments
- ✓ Support 1080P @30fps video playing and recording



Qualcomm4*
A53, 2.0GHz



Qualcomm
Adreno 702



Android
11/12/13



Cat4
150Mbps(DL)
50Mbps(UL)



BT 5.0
(BR/DDR+BLE)



IEEE 802.11
a/b/g/n/ac



GPS+BeiDou+
GLONASS



H.264,
HEVC,VP8

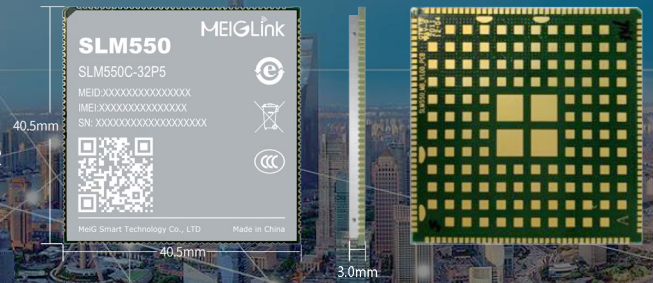


LCC+LGA package

MeiG-SLM550

Multi-mode Smart LTE Module

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China/India

SLM550-C:

LTE FDD: B1/B3/B5/B8

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

WCDMA: B1/B8

TD-SCDMA: B34/B39

EVDO/CDMA: BC0

GSM: 900/1800MHz

Europe/Middle East/Africa/Korea/Thailand

SLM550-E:

LTE FDD: B1/B3/B5/B7/B8/B20/B28

LTE TDD: B38/B40/B41

WCDMA: B1/B5/B8

GSM: 850/900/1800MHz

North America

SLM550-A:

LTE FDD: B2/B4/B5/B7/B12/B13/B17/B25/B26/B66

WCDMA: B2/B4/B5/B8

GSM: 850/1900MHz

Australia/Taiwan/Brazil

SLM550-AU*:

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

LTE TDD: B40

WCDMA: B1/B5/B8

GSM: 850/900/1800MHz

Japan

SLM550-J*:

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

LTE TDD: B41

WCDMA: B1/B6/B8/B19

Latin America

SLM550-LA

LTE-FDD: B2/B3/B4/B5/B7/B8/B28

LTE TDD: B38/B40

WCDMA: B2/B4/B5/B8

GSM: 850/900/1800/1900MHz

Global

SNM550

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)

TD-SCDMA:

4.2Mbps (DL)/2.2Mbps (UL)

CDMA2000:

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

1X Advanced: 307.2Kbps (DL/UL)

GSM:

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

EDGE: 36.8Kbps (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: -102dBm LTE FDD B3: -102dBm

LTE FDD B5: -102dBm LTE FDD B8: -102dBm

LTE TDD B34: -101dBm LTE TDD B38: -102dBm

LTE TDD B39: -102dBm LTE TDD B40: -102dBm

LTE TDD B41: -102dBm WCDMA B1: -110dBm

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

TD-SCDMA B39: -109dBm

EVDO/CDMA BC0: -109dBm

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 @30fps

Wi-Fi video: codec 1080P @30fps

Interfaces

LCM interface:

4-lane MIPI_DSI

HD+(720°1680) @60fps

Camera Interfaces:

Main Camera: 4-lane MIPI_CSI;

Auxiliary Camera: 2-lane MIPI_CSI;

2.1Gbps/Lane;

13M pixels photo taking

Touch screen interface: capacitive touch screen

Audio Interfaces:

Analog audio: speaker, receiver, earphone, 3 sets of

microphones

Supports 1 set of noise reduction microphones

USB Interfaces:

Conform to USB 3.1, Support USB OTG

I2C: x5

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

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

SD card: x1 (support 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, Wi-Fi & 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, BT5.0

GNSS: GPS/GLONASS/BeiDou

LTE Cat4,

Support diversity receiving antenna, DL MIMO 2x2

Support 3GPP E-UTRA Release 12

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

Built-in charging chip and electricity meter

Support dual Sim

Firmware update via USB

General Features

OS: Android 11/12/13

Memory:

2GB LPDDR3 + 16GB eMMC (default)

1GB LPDDR3 + 8GB eMMC (optional)

2GB LPDDR4 + 32GB eMMC optional

4GB LPDDR4 + 64GB eMMC optional

Working Temperature: -30°C ~ +75°C

Storage Temperature: -40°C ~ +85°C

Module Size: 40.5mm x 40.5mm x 2.85mm

Package: LCC+LGA

Weight: about 13.0g

Certification

CCC (China) /CE/IC/FCC

* means under developing