

MeiG-SLM550

Multi-mode LTE Smart Module

Support Wi-Fi & BT



MeiG SLM550 integrates Qualcomm Snapdragon QCM2290 chipset with 11nm FinFET process, built-in 64bit ARM and 4-core A53 (4*2.0GHz). It installs two Camera ISP, supports decode/encode up to 1080P@30fps, H.264 and HD+ screen resolution running Android 11 operating system, built-in on board memory 2GB+32GB (2GB+8GB or 3GB+64GB). It supports LTE Cat4, with a maximum downlink rate of 150Mbps and a maximum uplink rate of 50Mbps. This broadband module integrates GNSS and 2.4&5G WIFI, supports multi-modes of connectivity including TD-LTE/ FDD-LTE/ WCDMA/ EVDO/TD-SCDMA/CDMA/GSM.

SLM550 series modules support the following markets: SLM550-C, SLM550-E, SLM550-A*, SLM550-LA*, SLM550-J*, SLM550-AU*, SNM550.

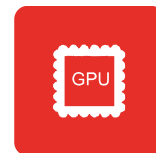
SLM550 can provide functions such as voice, SMS, address book, 2.4G/5G WiFi, BT and GPS. It supports dual 800W 3D camera or the depth-of-field camera, which can widely used in intelligent POS cash registers, logistics terminals, VR Camera, intelligent robots, video surveillance, security surveillance, automotive equipment, intelligent information collection equipment, intelligent handheld terminals, UAV and other products.

Main Advantages:

- ✓ Support LTE Cat 4, Max DL rate up to 150Mbps
- ✓ Support multi-modes of cellular connectivity
- ✓ Support main screen display HD+ (720*1680) @60fps
- ✓ Support dual ISP, dual camera (13M+13M) 21MP camera
- ✓ Integrated multi-constellation GNSS for fast and accurate positioning in different environments
- ✓ Support 1080P @30fps encode/decode



Qualcomm4+
A53, 2.0GHz



Qualcomm
Adreno 702



Android 11



Cat4
Max 150Mbps(DL)
Max 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

MeiG-SLM550

Multi-mode LTE Smart 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

EU/Middle East/Africa/South Korea/Thailand

SLM550-E:

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

LTE TDD: B38/B40/B41

WCDMA: B1/B5/B8

GSM: 850/900/1800/1900MHz

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/B4/B5/B7/B8/B25/B28/B66

LTE TDD: B40

WCDMA: B2/B5/B8

GSM: 850/900/1900MHz

Global

SNM550

Wi-Fi & BT only

Data Features

LTE:

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

Cat 4 TDD: Max 117Mbps (DL)/30Mbps (UL)

UMTS:

DC-USDPA: Max 42Mbps (DL)

HSUPA: Max 5.76Mbps (UL)

WCDMA: Max 384Kbps (DL/UL)

TD-SCDMA:

Max 4.2Mbps (DL)/2.2Mbps (UL)

CDMA2000:

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

1X Advanced: Max 307.2Kbps (DL/UL)

GSM:

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

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

Electricity Power

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

Transmission 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

Interface

LCM Interface:

4-lane MIPI_DSI

HD+(720*1680) @60fps

Camera Interface:

Main Camera 4-lane MIPI_CSI;

Auxiliary Camera 2-lane MIPI_CSI ;

Max rate 2.1Gbps/Lane;

Support 13M camera

Touch Screen Interface: capacitive touch screen

Audio Interface:

Analog Audio: speaker, earpiece, earphone, 3

microphone

Support 1x noise reduction microphone

USB Interface

Conform to USB 3.1 standard, support USB OTG

I2C interface: Max 5

(U)SIM interface: 2 (1.8V/2.95V)

UART interface: Max 3 (support HW flow control, max 4Mbps)

SD Card Interface: 1 (support SD 3.0, 4-bit SDIO)

PWRKEY: 1.8V, internal pull-up

SPI interface: Max 5

ADC interface: 2

GPIO interface: *24

Motor driver interface: 1

LED interface: 1

Antenna interface: Main antenna, diversity antenna,

GNSS antenna and Wi-Fi & BT antenna

Outstanding Feature

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 charge IC and fuel gauge

Support DSDS

Firmware update via USB

General Feature

OS: Android 11

Storage:

32GB eMMC+2GB LPDDR4 (Default)

64GB eMMC+3GB LPDDR4 (Optional)

Working temperature range -30°C ~ +75°C

Storage temperature range -40°C ~ +85°C

Module Size: 40.5mm x 40.5mm x 2.85mm

Package: LCC+LGA

Weight: 13.0g

Certification

CCC (China)

* means in developing