

MeiG-SLM550S

Multi-Mode LTE Smart Module

Support Wi-Fi & BT



MeiG Smart SLM550S module adopts Unisoc UIS8581E platform with 28nm FinFET process, built-in 64bit ARM V8 kernel A55 (4*1.6GHz+4*1.2GHz). It supports 1080P@30fps video encode/decode, H.266, FHD+ screen resolution, running Android 10 operating system and on-board memory of 1GB+8GB (2GB+16GB, 3GB+32GB, 4GB+64GB). It supports LTE Cat4, with a maximum DL rate of 150Mbps and UL rate of 50Mbps. This broadband smart module integrates GNSS and 2.4WIFI(compatible with 5G WIFI), supports multi-mode of connectivity including TD-LTE/ FDD-LTE/ WCDMA/ TD-SCDMA/GSM.

SLM550S series modules support the following markets: SLM550S-C, SLM550S-E, SLM550S-LA, SNM550S.

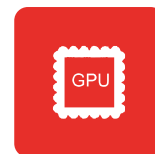
SLM550S provides voice, SMS, address book, 2.4G WiFi(compatible with 5G WIFI), BT and GPS, and can be widely used in video recorder, intelligent POS cash register, logistic terminal, VR Camera, intelligent robot, video surveillance, security surveillance, automotive equipment, intelligent information collection equipment, intelligent handheld terminal, UAV and other products.

Main Advantages

- ✓ Support LTE Cat 4, max DL rate 150Mbps
- ✓ Support multi-mode of connectivity
- ✓ Support main screen, FHD+ (1080*2160)
- ✓ Support dual ISP(2M+8M), dual camera, up to 8MP camera
- ✓ Integrated multi GNSS for fast and accurate positioning in different environments
- ✓ Support 1080P @30fps video encode/decode



8*A55,
1.6+1.2GHz



IMG
8322@550MHz



Android 10



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



BT 4.2/5.0*
(BR/DDR+BLE)



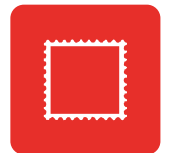
IEEE 802.11
a*/b/g/n/ac*



GPS+BeiDou+
GLONASS



H.266,
MPEG4,VP9

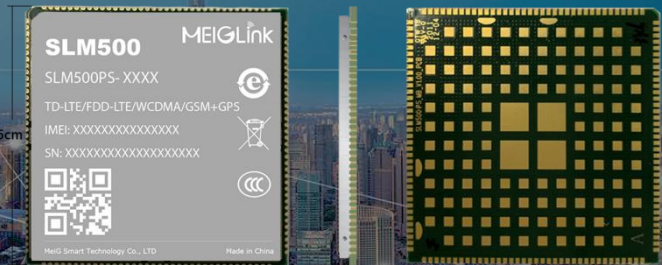


LCC+LGA

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China/India

SLM550S-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/Korea/Thailand

SLM550S-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

--No Support

Australia/Taiwan/Brazil

SLM550S-AU:

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

LTE TDD: B40

WCDMA: B1/B5/B8

GSM: 850/900/1800MHz

Japan

No Support

Latin America

SLM550S-LA:

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

LTE TDD: B40

WCDMA: B2/B5/B8

GSM: 850/900/1900MHz

Global

SNM550S

Wi-Fi & BT only

Data Feature

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:

-No Support

GSM:

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

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

Electrical Parameter

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 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: No Support

EGSM900: -109dBm

DCS1800: -109dBm

Audio & Video

Support VoLTE FHD voice calls SRVCC/

CSFB voice fallback technology

24-bit/192kHz high fidelity music playback

Video codec: 1080P @30fps

Wi-Fi: up to 1080P @30fps

Interface

LCM interface

4-lane MIPI_DSI, FHD+(1080*2160) @60fps

Camera interface

Main Camera: 2-lane MIPI_CSI;

Auxiliary Camera: 1-lane MIPI_CSI ;

Max rate 2.1Gbps/Lane;

Up to 8M

Touch screen interface: capacitive touch screen

Audio interface

Analog audio: speaker, earpiece, earphone,

3xmicrophone

Support 1x noise reduction microphone

USB Interface

Conform to USB 3.1 standard, support USB OTG

Other Interface

I2C: x 5

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

UART: x 3 (support hardware flow control, up to 4Mbps)

SD card: x 1 组 (support SD 3.0, 4-bit SDIO)

PWRKEY: 1.8V, internal pull-up

SPI: x 5

ADC: x 2

GPIO: x 24

Motor driver: x 1

LED indicator: x 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 received 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 upgrade via USB

General Feature

OS: Android 10

Storage:

16GB eMMC+2GB LPDDR4 (default)

32GB eMMC+3GB LPDDR4 (option)

64GB eMMC+4GB LPDDR4 (option)

Working temperature: -30°C ~ +75°C

Storage temperature: -40°C ~ +85°C

Working voltage: 3.5V~4.35V (typical: 3.8V)

Size: 40.5mm × 40.5mm × 2.85mm

Package: LCC+LGA

Weight: 13.0g

Certification

CCC (China) *

* means under development