

MeiG-SLM900

Multi-Mode Smart LTE Module

Support Wi-Fi & BT



MeiG Smart SLM900 series core board adopts Qualcomm Snapdragon SDM660 with 14nm FinFET process, built-in 64bit ARM V8 kernel (4*2.2GHz & 4*1.8GHz). It supports 4K 30fps video encoding/decoding, H.625, running Android 9.0 operating system and on-board memory of 32GB+3GB (64GB+4GB or 128GB+6GB). It supports LTE Cat6 and 2*20MHz CA, with a maximum downlink rate of 300Mbps. This broadband smart module integrates GNSS, 2.4&5G WIFI, supports multi-mode of connectivity including TD-LTE/ FDD-LTE/ WCDMA/ EVDO/TD-SCDMA/CDMA/GSM.

SLM900 series modules support the following markets: SLM900-C, SLM900-E, SLM900-A, SLM900-LA*, SLM900-J, SLM900-AU*, SNM900.

SLM900 integrates rich functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART, USB, I2C, SPI, voice, SMS, address book, 2.4G/5G WiFi, BT, GPS and so on. It supports dual 1600W 3D camera or depth-of-field camera, which can be widely used in PBWC, 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 6and 2x20MHz CA, max DL 300Mbps
- ✓ Support multi-modes of connectivity
- ✓ Support dual screen display and dual touch, 2560*1600@60fps
- ✓ Support dual camera, up to 4x Camera
- ✓ Integrated multi GNSS for fast and accurate positioning in different environments
- ✓ Support 4K @30fps encode/decode

Qualcomm	Qualcomm	Android 9.0
Octa-Core Kryo260	512 GPU	
Cat6	BT 5.x	IEEE 802.11
Max 300Mbps(DL)	(BR/DDR+BLE)	a/b/g/n/ac
Max 50Mbps(UL)		
GPS+BeiDou+	H.265/	LCC+LGA
GLONASS	VP9/MPEG	

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China/India

SLM900-C:

LTE FDD: B1/B3/B5/B8

LTE TDD: B34/B38/B39/B40/B41(120M)

WCDMA: B1/B8

TD-SCDMA: B34/B39

EVDO/CDMA: BC0

GSM: 900/1800MHz

EU/Middle East/Africa/South Korea/Thailand

SLM900-E:

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

LTE TDD: B38/B40/B41(120M)

WCDMA: B1/B2/B5/B8

GSM: 850/900/1800/1900MHz

North America

SLM900-A:

LTE FDD: B2/B4/B5/B7/B12/B13/B14/B17//B25
/B26/B66

WCDMA: B2/B4/B5

GSM: 850/1900MHz

Australia/Taiwan/Brazil

SLM900-AU*:

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

LTE TDD: B40

WCDMA: B1/B2/B5/B8

GSM: 850/900/1800/1900MHz

Japan

SLM900-J:

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

LTE TDD: B41

WCDMA: B1/B6/B8/B19

Latin America

SLM900-LA*

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

LTE TDD: B40

WCDMA: B2/B5/B8

GSM: 850/900/1900MHz

Global

SNM900:

Wi-Fi & BT only

Data Features

LTE:

Cat 6 FDD: Max 300Mbps (DL)/50Mbps (UL)

Cat 6 TDD: Max 265Mbps (DL)/35Mbps (UL)

UMTS:

DC-USDPA: Max 42Mbps (DL)

DC-HSUPA: Max 11.2Mbps (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 296Kbps (DL)/236.8Kbps (UL)

Electricity Parameter

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

Power Consumption: 70uA @shutdown

3.6mA @ sleep, typical value

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 @60fps

Wi-Fi video: up to 1080P @30fps

Interface

LCM interface:

4-lane MIPI_DSI0 + 4-lane MIPI_DSI1

2560*1600 @60fps

DP: 4K@30fps, 2K@60fps

Camera interface:

3 ways 4-lane MIPI_CSI, Max Rate 2.1Gbps/

Lane, support 3 or 4x camera

Dual ISP, up to 24M

Touch Screen Interface: capacitive touch screen

Audio Interface:

Analog Audio: speaker, earpiece, earphone, 3x
microphone

Support 1x noise reduction microphone

USB Interface

USB 3.0*1, USB2.0*1,

Conform to USB 3.0/2.0 standard, support USB OTG

Support Type-C Display Port

Other Interface

I2C interface: 5

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

UART interface: 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: 2 (multiplex pin with UART/I2S, I2S
support Tx & Rx)

ADC interface: 2

GPIO interface: 19

Motor driver interface: 1

Flashlight interface: 2

LED interface: 4

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/5.x BLE

GNSS: GPS/GLONASS/BeiDou

LTE Cat 6, support 2x20MHz CA

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 Qualcomm

Quick Charge 3.0 (optional)

Support dual screen

Support DS2S

Firmware update via USB

General Feature

OS: Android 9.0

Storage:

32GB eMMC+3GB LPDDR4x (Default)

64GB eMMC+4GB LPDDR4x (Optional)

Working Temperature: -30°C ~ +75°C

Storage Temperature: -40°C ~ +90°C

Working Voltage: 3.5V~4.35V (typical value: 3.8V)

Module Size: 41.5mm × 45.5mm × 3.00mm Package:

LCC+LGA

Weight: 13.0g

Certification

CCC(China), CE, FCC, RoHS, JATE, Telec

* means in developing