



MeiG Smart SLM900 Module

Multi-Mode Smart LTE Module with Wi-Fi & BT functionality

MeiG Smart SLM900 series smart module adopts SDM660 of Qualcomm Snapdragon 600 series chipset, equipped with 14nm FinFET process of CPU, built-in 64bit ARM, and 8-core Kryo (4*2.2GHz & 4*1.8GHz). It supports decode/encode up to 4K@30fps, H. 265 with Android 9.0 operating system. It integrates on-board memory of 32GB+3GB (options of 64GB+4GB, 128GB+8GB), carrier aggregation of LTE Cat.6 and 2*20MHz with a maximum downlink rate up to 300Mbps. It also supports multiple network standards such as LTE-TDD, LTE-FDD, WCDMA, EVDO, TD-SCDMA and CDMA, with embedded multi-constellation and high-sensitivity GNSS and 2.4 & 5G Wi-Fi.

SLM900 series modules have different variants of SLM900-C, SLM900-E*, SLM900-A*, SLM900-LA*, SLM900-J*, SLM900-AU* and SNM900 for different market.

SLM900 integrates abundant functional interfaces, including LCM, touch screen, camera, microphone, speaker, UART interface, USB interface, I2C interface, SPI interface, etc.

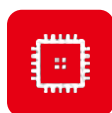
It is suitable for a variety of M2M applications such as Smart POS, vending machine, Logistics Terminal, VR Camera, Intelligent Robot, Video Monitoring, Security Monitoring, Vehicle Equipment, Intelligent Information Acquisition Equipment, Intelligent Handheld Terminal, UAV and other products.

Main Advantage:

- ✔ LTE Cat.6 and 2x20MHz carrier aggregation with maximum downlink rate up to 300 Mbps
- ✔ Overall coverage of various network systems
- ✔ Dual screen, different display and dual touch control with main screen support up to 2560*1600
- ✔ @ 60fps, with a maximum support for auxiliary screen of 2560*1600@60fps
- ✔ dual camera, up to 4 cameras
- ✔ Integrating Multi-constellation GNSS receivers to meet the requirements of high speed and precise positioning



Qualcomm 8-core Kryo200



Qualcomm 512GPU



Android 9/10



Cat.6 Max:300Mbps(DL) Max:50Mbps(UL)



BT 5.x (BR/DDR plus)



IEEE 802.11 a/b/g/n/ac



GPS+BeiDou+GLONASS



HEVC/VP9/MPEG



LCC plus LGA Encapsulation

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General Features:

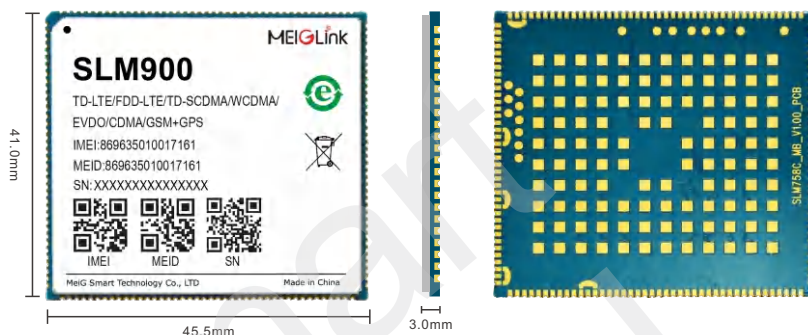
- ❑ OS: Android 9.0
- ❑ Storage: 32GB eMMC+3GB LPDDR4x (default)
64GB eMMC+4GB LPDDR4x (optional)
- ❑ Operating Temp: -30°C ~ +75°C
- ❑ Storage Temperature Range: -40°C ~ +85°C
- ❑ Size: 41.0x45.5x3.0mm
- ❑ Package: LCC+LGA
- ❑ Weight: about 13.0g
- ❑ Certification: CCC/CE*/FCC*/ROHS
* signifies under development

Outstanding Features:

- ❑ WLAN: 2.4G/5G, 802.11 a/b/g/n/ac
- ❑ BT: BT 2.1+EDR/3.0/4.1 LE/5.x BLE
- ❑ GNSS: GPS/GLONASS/BeiDou
- ❑ LTE Cat. 6, support 2x20MHz carrier aggregation
Support diversity antenna, downlink support MIMO
2x2 Support 3GPP E-UTRA Release 12
- ❑ Bandwidth: 1.4/3/5/10/15/20MHz
Built-in charging chip and fuel gauge, support
Qualcomm Quick Charge 3.0 (optional)
Dual screens and different display
Dual cards dual standby
Firmware update via USB

Interface:

- ❑ USB 3.0*1, USB 2.0*1,
- ❑ Conforms to the specifications of USB 3.0/2.0, support USB OTG
Support Type-C Display Port
- ❑ I2C Interface: 5 sets
- ❑ (U)SIM Interface: 2 sets (1.8V/2.95V)
- ❑ UART Interface: 3 sets (support hardware flow control,
the highest rate up to 4Mbps)
- ❑ SD card interface: 1 group (support SD 3.0, 4-bit SDIO)
- ❑ PWRKEY: 1.8V, internal increase
- ❑ SPI Interface: two sets (one can be reused as UART, the
other for I2S, I2S supports Tx and Rx).
- ❑ ADC interface: 2 sets
- ❑ GPIO interface: 19 sets
- ❑ Motor Drive Interface: 1 set
- ❑ Flashlight Interface: 2
- ❑ LED Indicator Interface: 4 sets
- ❑ Antenna interface: main antenna, diversity antenna,
GNSS antenna and Wi-Fi & BT antenna interface



Audio Interface:

- ❑ Simulated audio: loudspeaker, telephone receiver,
earphone, three microphones
- ❑ Support one set of noise reduction microphone

Camera interface:

- ❑ three 4-lane MIPI_CSI, Highest speed rate: 2.1Gbps/
Lane, Support three or four cameras
- ❑ With dual ISP, it can support 24M pixel photography to
the maximum.
Touch Screen Interface: Capacitive Touch Screen

LCM:

- ❑ LCM interface: 4-lane MIPI_DSIO + 4-lane MIPI_DSII
2560*1600 @60fps

Audio & Video:

- ❑ Support for VoLTE Ultra HD voice calls, SRVCC/CSFB
24-bit/192kHz high fidelity music playback: 1080P @60fps
Wi-Fi Video: Max decoding and encoding 1080P @30fps

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

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MEIG

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

Electric Parameter:

- Supply Voltage: 3.55V~4.4V, Typical Value: 3.8V

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)
- GPRS: Max: 107Kbps (DL)/85.6Kbps (UL)
- EDGE: Max: 236.8Kbps (DL)/236.8Kbps (UL)

Band(MHz):

China

SLM900-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

EMEA

SLM900-E*

LTE-FDD: B1/B3/B5/B7/B8/B20/B28A
LTE-TDD: B38/B40/B41
WCDMA: B1/B2/B5/B8
GSM: 850/900/1800/1900MHz

America

SLM900-A*

LTE-FDD: B2/B4/B5/B7/B12/B13/B14/B25/B26/B66
LTE-TDD: B41
WCDMA: B1/B2/B4/B5
GSM: 850/1900MHz

Australia

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

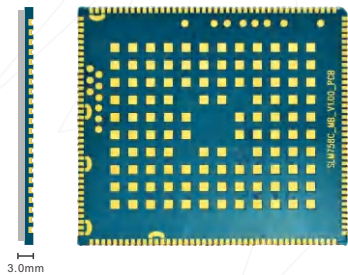
SLM900-LA*

LTE-FDD: B2/B4/B5/B7/B8/B25/B28/B66
LTE-TDD: B40
WCDMA: B2/B5/B8
GSM: 850/900/1900MHz

GLOBE

SLM900

Only support Wi-Fi & BT



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