

MeiG-SLM920

Multi-Mode Smart LTE Module

Support Wi-Fi & BT



MeiG Smart SLM920 series core board adopts Qualcomm QCM6125 with 11nm FinFET process, built-in 64bit ARM and 8-core Kryo (4*A73 2.0GHz & 4*A53 1.8GHz). It supports 4K 30fps video encoding/decoding, H.265, running Android 10/12 operating system and on-board memory of 32GB+3GB (64GB+4GB or 16GB+2GB 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 TDD-LTE/ FDD-LTE/ WCDMA/EVDO/TD-SCDMA/CDMA/GSM.

SLM920 series modules support the following markets: SLM920-C, SLM920-E, SLM920-A, SLM920-LA*, SLM920-J*, SLM920-AU, SNM920.

SLM920 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 6 and 2x20MHz CA, max DL 300Mbps
- ✓ Support multi-modes of connectivity
- ✓ Support dual screen display and dual touch, 1920*1200 @60fps
- ✓ Support dual ISP(16 + 16MP), up to 4x Camera
- ✓ Integrated multi GNSS for fast and accurate positioning in different environments
- ✓ Support 4K @30fps encode/decode

		
Qualcomm Octa-Core Kryo260	Qualcomm 610 GPU	Android 10/12
		
Cat6 Max 300Mbps(DL) Max 50Mbps(UL)	BT 5.x (BR/DDR+BLE)	IEEE 802.11 a/b/g/n/ac
		
GPS+BeiDou+ GLONASS	H.265/ VP9/MPEG	LCC+LGA

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China/India

SLM920-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

SLM920-E:

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

LTE TDD: B38/B40/B41

WCDMA: B1/B5/B8

GSM: 850/900/1800MHz

North America

SLM920-A:

LTE FDD:

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

LTE TDD: B41(196MHz)

WCDMA: B2/B4/B5

GSM: 850/1900MHz

Australia/Taiwan/Brazil

SLM920-AU:

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

LTE TDD: B40

WCDMA: B1/B2/B5/B8

GSM: 850/900/1800/1900MHz

Japan

SLM920-J*:

LTE FDD: B1/B3/B8/B18/B19/B26/B28

LTE TDD: B41

WCDMA: B1/B6/B8/B19

Latin America

SLM920-LA*

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

LTE TDD: B40

WCDMA: B2/B5/B8

GSM: 850/900/1900MHz

Global

SNM920:

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: 3.5V~4.35V, 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 EGSM920

Class 1 (30dBm±2dB) for DCS1800

Class 1 (30dBm±2dB) for PCS1920

Class E2 (27dBm±3dB) for GSM850 8-PSK

Class E2 (27dBm±3dB) for EGSM920 8-PSK

Class E2 (26dBm±3dB) for DCS1800 8-PSK

Class E2 (26dBm±3dB) for PCS1920 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

EGSM920: -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: 4K @60fps

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

Interface

LCM interface:

1 x 4-lane MIPI_DSI0 + 1 x Display Port

1920*1200 @60fps + 1920*1200@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 3.1*1, USB 2.0*1

Conform to USB 3.0 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 10/12

Storage:

32GB eMMC+3GB LPDDR4x (Default)

16GB eMMC+2GB LPDDR4x (Optional)

64GB eMMC+4GB LPDDR4x (Optional)

128GB eMMC+6GB 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 x 45.5mm x 3.0mm Package:

LCC+LGA

Weight: 13.0g

Certification

CCC(China), CE, FCC*

* means in developing

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