

Smart Module SQ808



Qualcomm Quad Core

1440 x 720 60fps

WIFI 802.11 a/b/g/n/ac

BT 4.2 BLE

GPS/GLONASS/Beidou

The SQ808 series is an LTE Cat 4 intelligent module designed with the Qualcomm QCM2150 platform as the basis with a smart and open Android operating. The module, LCC+LGA packaged for easy patching, integrates core components such as baseband, EMCP, PMU, transceiver and PA, and supports long-distance communication modes such as FDD-LTE/TDD-LTE, WCDMA and GSM and short-distance 2.4G+5G wireless transmission technologies like WIFI/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. In addition, the module has rich extension interfaces such as UART/SPI/I2C/USB to be connected to an HD+ touch screen, and supports front and rear cameras.

It can be embedded in various M2M applications. It is suitable for the development of smart devices such as smart POS, cash registers, robots, UAVs, smart homes, security monitoring and multimedia terminals.



Smart Module SQ808



Product Feature

- Dimensions: 41.0mm x 41.0mm x 2.8mm
- Package: 148 LCC + 84 LGA pin
- CPU: Qualcomm® s® QCM2150 Quad-core ARM® Cortex-A53 processor; up to 1.3GHz; 64-bit CPU
- Memory: 1GB/2GB LPDDR3+8GB/16GB eMMC
- Operating temperature: -25~+75°C
- Operating voltage: 3.5~4.2V
- Weight: about 9.3g

Multi-Media

- GPU: Adreno™ 308 GPU
- Display: 1440 × 720
- Video Dec: 1080p 30 fps (H.264, HEVC, VP8)
- Video Enc: 1080p 30 fps (H.264)
- Camera: up to 13Mpix
- Audio: Analog Audio

Network	SQ808-EAU	SQ808-NA	SQ808-CN	SQ808-JP	SQ808-LA*	SQ808-W*
LTE-FDD	B1/B3/B5/B7/B8/B20/B28	B2/B4/B5/B7/B12/B13/B17/B25/B26/B66	B1/B3/B5/B8	B1/B3/B6/B8/B9/B18/B19/B21/B26/B28	B1/B2/B3/B4/B5/B7/B8/B28/B66	
LTE-TDD	B38/B40/B41	B41	B34/B38/B39/B40/B41	B41	B38/B40	
UMTS	B1/B2/B5/B8	B1/B2/B4/B5/B8	B1/B8	B1/B6/B8/B9/B19	B1/B2/B5/B8	
CDMA/EVDO						
TD-SCDMA						
GSM/EDGE	850/900/1800/1900MHz	850/900/1900MHz	900/1800MHz		850/900/1800/1900	
WIFI	802.11 a/b/g/n/ac, 2.4G+5G	802.11 a/b/g/n/ac, 2.4G+5G	802.11 a/b/g/n/ac, 2.4G+5G	802.11 a/b/g/n/ac, 2.4G+5G	802.11 a/b/g/n/ac, 2.4G+5G	802.11 a/b/g/n/ac, 2.4G+5G
BT	4.2 BLE	4.2 BLE	4.2 BLE	4.2 BLE	4.2 BLE	4.2 BLE
GNSS	GPS/GLONASS/Beidou	GPS	GPS/GLONASS/Beidou	GPS/GLONASS/Beidou	GPS/GLONASS/Beidou	
Area	Europe/Asia	North American	China	Japan	Latin	Global
Cert.	RoHS*/CE*/GCF*	RoHS*/FCC*/PTCRB*/A T&T*/Verizon*	RoHS*/CCC*	JATE*/TELEC* DCM*/KDDI*/SFB*	FCC*	CE*

DATA

- LTE: 3GPP R10 CAT4: FDD-LTE: Max 150Mbps(DL)/50Mbps(UL)
TDD-LTE: Max 130Mbps(DL)/30Mbps(UL)
- UMTS/HSPA/HSPA+: 3GPP R9: CAT6 HSUPA: Max 5.76Mbps(UL)
CAT24 HSPA+: Max 42Mbps(DL)
- EDGE/GPRS(Kbps): EDGE: Max 296Kbps(DL)/236.8Kbps(UL)
GPRS: Max 107Kbps(DL)/85.6Kbps(UL)

Interface

- UART/SPI 3 x UART Up to 4Mbps, 1x SPI
- USB 1 x USB2.0 up to 480Mbps, Support OTG
- SDIO 1 x SD3.0
- CAM 2x4-lane/4+2+1 lane MIPI_CSI, Up to •2.1G/lane
4-lane MIPI_CSI0 connect 1 main camera up to 13Mpix
- GPIO 23 x GPIO
- Display 1 x MIPI DSI- 4lanes HD+(1440*720)
- USIM 2 x USIM, 3.0V/1.8V

Operating System

- Android 10.0

Note: * = Planning ** = Developing