

SOC Smart Module SU808



UNISOC Quad-core

1440 x 720@60fps

Wi-Fi 802.11 b/g/n

BT 4.2(BR/EDR+BLE)

GPS/Beidou

The SU808 is an LTE Cat 4 smart module designed with the UNISOC SL8541E platform as the basis with a smart and open Android operating system. The LCC+LGA package is easy for patching, the module integrated 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 wireless transmission technologies like Wi-Fi/Bluetooth. And it also supports GNSS wireless positioning technology. In addition, the module has rich extension interfaces such as UART/SPI/I2C/USB and supports front and rear camera.

SU808 can be widely used in smart wireless payment, smart robots, smart home, smart city and other industries. It is an excellent global system solution for wireless smart products.



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Product Feature

- Dimensions : 41.0mm x 41.0mm x 2.8mm
- Package : 148 LCC + 84 LGA pin
- CPU: Quad-core ARM® Cortex™ A53 MP processor, up to 1.4GHz
- Memory: 1/2GB LPDDR3 RAM +8/16GB eMMC Flash
- Operating temperature : -20 ~ +75°C
- Operating voltage : DC 3.5 ~ 4.2V

Multi-Media

- GPU: Mali T820
- Display: 1440 × 720@ 60fps
- Video Dec : 1080p @30fps (H.264, MPEG4, H.263, VP 8)
- Video Enc : 1080p @30fps (H.264, MPEG4, H.263)
- Camera : 2xISP, MIPI_CSI up to 1.5Gbps
1xMIPI_CSI 4 lanes(up to 13MP)
- Audio : Analog Audio

网络	SU808-EAU	SU808-CN
LTE-FDD	B1/3/5/7/8/20/28	B1/3/5/8
LTE-TDD	B38/40/41	B34/38/39/40/41
WCDMA	B1/2/5/8	B1/8
GSM/EDGE	850/900/1800/1900MHz	900/1800MHz
Wi-Fi	802.11 b/g/n 2.4G	802.11b/g/n/2.4G
BT	4.2 (BR/EDR+BLE)	4.2 (BR/EDR+BLE)
GNSS	GPS/Beidou	GPS/Beidou
Area	Europe/Asia	China
Regulation Cert.	RoHS/CE/Anatel	RoHS/CCC
Operator	Claro*/Vivo*	
Industry	GCF*	

DATA

- FDD-LTE: up to 150Mbps(DL)/50Mbps(UL)
- TDD-LTE: up to 130Mbps(DL)/30Mbps(UL)
- UMTS/HSPA/HSPA+: 3GPP R7 HSUPA: up to 11Mbps(UL)
3GPP R7 HSDPA: up to 21Mbps(DL)
- EDGE/GPRS(Kbps): EDGE: up to 296Kbps(DL)/236.8Kbps (UL)
GPRS: up to 107Kbps(DL)/85.6Kbps(UL)

Interfaces

- UART/SPI 3 x UART Up to 3Mbps
- I2C 4 x I2C Up to 3.4Mbps
- USB 1 x USB2.0 support OTG
- SDIO 1 x SD3.0
- CAM 1 x MIPI_CSI1 (up to 13Mp CSI1 4lanes)
1 x MIPI_CSI0 (up to 8Mp CSI0 4lanes)
- Display 1 x MIPI DSI- 4lanes up to 1440 × 720
- USIM 2 x USIM, 3/1.8V

Operating System

- Android Q

Note: * = Planning ** = Developing

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