

Smart Module SS808



Qualcomm Octa Core

1920 x 1200 60fps

WIFI 802.11 a/b/g/n/ac

BT 4.2 BLE

GPS/GLONASS/Beidou

SS808 smart module is designed based on Qualcomm SDM450 platform, using eight-core Cortex-A53 processor, 1.8GHz main frequency, and internal integration of high-performance graphics engine, which can smoothly play 1080p video, support dual-screen display, support multi-camera input. SS808 supports seven types of long-distance communication mode and dual-frequency WIFI/BT close-range without. Line transmission technology, supporting GNSS wireless positioning technology. SS808 preset open Android operating system, with MIPI / USB / UART / SPI / I2C and other extensions, is the preferred solution for the core system of wireless intelligent products.

SS808 smart module can be widely used in intelligent hardware, intelligent cash register, security monitoring, vehicle equipment, vending machine, logistics cabinet and other equipment and industries.



Smart Module SS808



Product Feature

- Dimensions: 41.0mm x 41.0mm x 2.8mm
- Package: 152 LCC + 80 LGA pin
- CPU: Qualcomm® s® SDM450 ARM® CortexTM-A53 Octa-core 64-bit CPU, up to 1.8GHz
- Memory(Default):2GB LPDDR3 RAM +16GB eMMC Flash
- Operating temperature: -30~ +75°C
- Operating voltage: 3.5~4.2V
- Weight: about 10.3g

Multi-Media

- GPU: Adreno506, 3D Graphic Processing Unit
- Display: Dual display, up to 1920*1200 60fps
- Video Dec: 1080P@60fps(H.264/H.265/VP8/VP9)
- Video Enc: 1080P@60fps (H.264/H.265/VP8)
- Camera: 2xISP,MIPI_CSI up to 2.1Gbps
2x MIPI_CSI 4 lanes(up to 21MP)
- Audio: Analog Audio

| Network | SS808-EAU | SS808-NA | SS808-CN* | SS808-JP* | SS808-LA* | SS808-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/B7B/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 | | | BC0/EVDO Rev.A | | | |
| TD-SCDMA | | | B34/B39 | | | |
| GSM/EDGE | 850/900/1800/1900MHz | 850/1800/1900MHz | 900/1800MHz | | 850/900/1800/1900MHz | |
| 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/ 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

- FDD-LTE: Max 150Mbps(DL)/50Mbps(UL)
- TDD-LTE: Max 130Mbps(DL)/30Mbps(UL)
- UMTS/HSPA/HSPA+: 3GPP R6 HSUPA: Max 5.76Mbps(UL)
3GPP R8 HSPA+: Max 42Mbps(DL)
- TD-SCDMA: 3GPP R8 Max 4.2Mbps(DL)/2.2Mbps(UL)
- CDMA EVDO: Max 3.1Mbps(DL)/1.8Mbps(UL)
- 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
- I2C I2C Up to 3.4Mbps
- USB 1 x USB2.0 up to 480Mbps,Support OTG/USB3.0 up to 5Gbps
- SDIO 1 x SD3.0
- CAM 2x4-lane MIPI_CSI, Up to 2.1G
4-lane MIPI_CSI Up to 21Mp
- GPIO 21 x GPIO
- Display 2 x MIPI DSI- 4lanes FHD(1920*1200)
- USIM 2 x USIM, 3.0V/1.8V

Operating System

- Android 9.0

Note: * = Planning ** = Developing