Fibocom SC228

4G SoC Smart Module

Key Advantages

- Support global 4G LTE frequency bands, dual-band Wi-Fi and Bluetooth
- Adopts Qualcomm Octa-core processor (4 * A73 2.4G + 4 * A53 1.9G) and powerful graphics engine with superior performance and power efficiency;

frequency bands.

demands of IoT industries.

- Supports multiple cameras and three cameras work simultaneously
- The high-performance CPU capability can support the smooth running of AI algorithm

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Wi-Fi 802.11 a/b/g/n/ac

Three cameras work simultaneously

Qualcomm Octa-core



BT 5.0 BLE

(3*ISP)



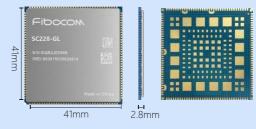
Android 14



GPS/ GLONASS/ BeiDou/Galileo/ QZSS



Professional reference design and technical support



Fibocom SC228 is a multi-mode Smart LTE Category 4

communication module. Powered by Qualcomm SM6225 chipset with superior performance and power efficiency. It is featured with Octa-core (4*A73 2.4G + 4*A53 1.9G) processor and high-level graphics engine for powerful image processing capability. It is integrated with low-power island (LPI) DSP for

sensors and audio. The high-performance CPU capability

The chipset is adopted with 6nm manufacturing process and support optimized power consumption. SC228 adopts LCC+LGA form factor, be compatible with Fibocom smart modules SS808, SQ808, SC128, SU808, and SC138, offering customers the

flexibility to migrate among different technologies. Furthermore, it is designed to serve global market with global 4G LTE

The SC228 supports global 4G LTE, dual-band Wi-Fi and

Bluetooth wireless communication technology. It supports global GNSS positioning system including GPS, GLONASS, BeiDou, Galileo and QZSS, to achieve high-performance positioning and navigation. Meanwhile, it is integrated with open Android operating system and supports in-time system upgrading. Furthermore, it is designed with rich interfaces

including MIPI/ USB/ UART/ SPI/ I2C, etc., to provide much flexibility and ease of integration to meet various application

Fibocom smart module SC228 can be widely used in various industries such as smart POS, Industrial handsets, wearable

camera, PoC terminals, in-vehicle applications, smart home, and

supports AI algorithm to run smoothly.





| Smart(LTE Cat 4) | SC228-GL | |
|-------------------------|---|--|
| Region | Global | |
| Basic Features | | |
| Form Factor | 148 LCC+ 128 LGA | |
| CPU | Qualcomm's SM6225, Quad-core ARMs Cortex™-A73,2.4GHz+Quad-core ARM Cortex™-A53,1.9GHz | |
| GPU | Adreno 610 | |
| Memory | 4GB LPDDR4X RAM;64GB UFS | |
| Dimensions(mm) | 41x41x2.8 | |
| LTE FDD | B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B66/B71 | |
| LTE TDD | B34/B38/B39/B40/B41 | |
| WCDMA | B1/B2/B3/B4/B5/B6/B8/B9/B19 | |
| GSM | 850/900/1800/1900 | |
| Wi-Fi | 802.11 a/b/g/n/ac | |
| ВТ | 5.0 BR/EDR/BLE | |
| GNSS | GPS/ GLONASS/ BeiDou/Galileo/ QZSS | |
| OS | Android 14 | |
| Power Supply | 3.5~4.2V | |
| Operating Temp | -30°C - +75°C | |
| Weight | 9.6±0.1g | |
| Data Transmission | | |
| LTE FDD(Mbps) | Max 150(DL)/ 75(UL) | |
| LTE TDD(Mbps) | Max 130(DL)/ 45(UL) | |
| WCDMA(Mbps) | HSUPA: Max 5.76(UL) | |
| | HSPA+: Max 42(DL) | |
| EDGE/GPRS(Kbps) | EDGE: Max 296(DL)/ 236.8 (UL) | |
| | GPRS: Max 107(DL)/ 85.6(UL) | |
| Multi-media | | |
| Video Encode | 1080p60 8-bit HEVC/H.264/H.265 | |
| Video Decode | 1080p60 8-bit HEVC/H.264/H.265/VP9 | |
| Interfaces | | |
| LCD | 1 * 4-Lane MIPI_DSI up to 2520×1080@90fps | |
| Cam | 3 * 4-Lane MIPI_CSI ,up to 2.5Gbps per line, 4-Lane up to 64MP | |
| UART | 3 x UART, up to 4Mbps | |
| 12C | 6 x I2C, up to 3.4Mbps | |
| USB | 1 x USB2.0/3.1, Support OTG | |
| SDIO | 1 x SD3.0 | |
| GPIO | 33 GPIOs | |
| Speaker | 1W on 8Ω load in Class-D mode | |
| Receiver | 1 x Mono, AB | |
| Mic | 2 x analog microphones | |
| Handset | Stereo CLASS AB | |
| USIM | 2 x SIM card,support dual-SIM dual-standby | |
| Keys | Power on/off /Volume up /Volume down /Reset | |
| Certification Approvals | | |
| Regulation | RoHS*/CCC*/SRRC*/NAL*/CE*/FCC*/TSCA*/JATE*/TELEC* | |
| Operator | NA | |
| Industry | NA | |

