

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



Qualcomm Octa-core

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 supports AI algorithm to run smoothly.



Three cameras work simultaneously (3*ISP)

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 frequency bands.



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

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 demands of IoT industries.



BT 5.0 BLE



Android 14

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 more.



GPS/ GLONASS/ BeiDou/ Galileo/ QZSS



Professional reference design and technical support



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
BT	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
I2C	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

** = planning
* = under development

Fibocom Wireless Inc.

Telephone: +86 755-26733555 Post Code: info@fibocom.com

Address: Floor 10 th,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

Official website: www.fibocom.com

