

Fibocom SC126

High-performance entry level IoT SoC
Multi-mode Smart LTE Module Supporting Wi-Fi & BT

Key Benefits

- Quad-core 64-bit Cortex-A53, up to 2.0GHz
- Dual image signal processors to support multi-camera applications
- Support up to FHD (1920 x 1080@30fps) display
- 1080P@30fps video recording and playing
- Equipped with Android smart operating system
- Extended life cycle



Qualcomm Quad-core



1920 x 1080@30fps



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



BT 5.0 BLE



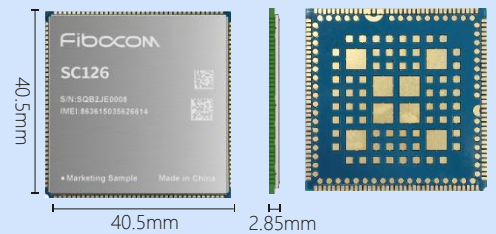
Android12 and later



GPS/GLONASS/Beidou



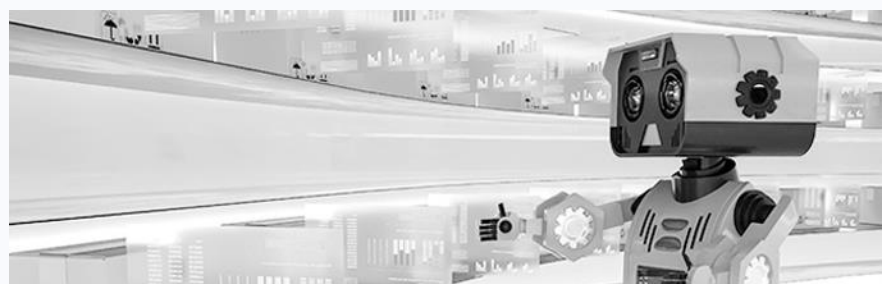
Professional reference design
and technical support



Fibocom SC126 is a multi-mode Smart LTE Category 4 communication module. Powered by the Qualcomm QCM2290 system-on-chip, SC126 adopts an Quad-core Cortex-A53 processor with 11 nm advanced technology. It is equipped with an open Android smart operating system with rich multimedia processing capabilities. It can be connected to an FHD (1920 x 1080@30fps) touch screen, supporting multi-channel camera input, integrated face recognition, as well as AI intelligent algorithms. The module adopts a LCC+LGA form factor, which can help customers to develop terminal equipment flexibly.

Fibocom's SC126 module supports a variety of long-distance communication modes as well as dual-band Wi-Fi/Bluetooth short-distance wireless transmission technologies. The module supports multi-constellation GNSS receiver (GPS/ GLONASS/ BeiDou), which provides high-performance positioning and navigation while greatly simplifies product design. With a rich set of interfaces including MIPI/ USB/ UART/ SPI/ I2C, etc., the Fibocom SC126 module enables much flexibility and ease of integration to meet various application demands of the IoT industry.

The Fibocom smart module SC126 can be used in a wide range of IoT scenarios such as smart wireless payment, smart robot, industrial handheld, In-vehicle DVR, etc., which is an ideal solution for the core system of smart wireless products worldwide.



Smart(LTE Cat 4)	SC126-CN	SC126-EAU	SC126-NA	SC126-JP	SC126-W
Region	China	Europe/Australia/Brazil/Asia	North America	Japan	Global
Basic Features					
Form Factor	146 LCC+ 116 LGA				
CPU	Qualcomm's® QCM2290, ARM® Cortex-A53 Quad-core 64-bit CPU up to 2.0GHz				
GPU	Adreno 702				
Memory	2GB LPDDR4X RAM;16GB eMMC Flash (default)				
Dimensions(mm)	40.5x40.5x2.85				
LTE FDD	B1/3/5/8	B1/3/5/7/8/20/28	B2/4/5/12/13/17/25/26/66	B1/3/6/8/9/18/19/21/26/28	NA
LTE TDD	B34/38/39/40/41	B38/40/41	B41	B41	NA
WCDMA	B1/8	B1/2/3/5/8	B1/2/4/5/8	B1/6/8/9/19	NA
GSM	900/1800MHz	850/900/1800/1900MHz	850/900/1900MHz	NA	NA
Wi-Fi	802.11 a/b/g/n/ac				
BT	5.0 DR/EDR/BLE				
GNSS	GPS/Beidou/GLONASS				NA
OS	Android 12				
Power Supply	3.5~4.2V				
Operating Temp	-25°C - +75°C				
Weight	TBD				
Data Transmission					
LTE FDD(Mbps)	Max 150(DL)/ 50(UL)				NA
LTE TDD(Mbps)	Max 130(DL)/ 30(UL)				NA
WCDMA(Mbps)	HSUPA Max 11(UL)				NA
	HSPA+ Max 42(DL)				NA
CDMA2000 1X/EVDO (Mbps)	Max 3.1 (DL)/ 1.8(UL)				NA
TD-SCDMA (Mbps)	Max 4.2(DL)/ 2.2(UL)				NA
EDGE/GPRS(Kbps)	EDGE:Max 296(DL)/ 236.8(UL)				NA
	GPRS:Max 107(DL)/ 85.6(UL)				NA
Multi-media					
Video Encode	1080p30 8-bit HEVC (H.265)				
Video Decode	1080p30 8-bit HEVC (H.265), VP9				
Interfaces					
LCD	1 x 4-lane MIPI_DSI up to 1920x1080@30fps				
Cam	2 x MIPI_CSI (4/4 or 4/2/1) · ISPx2 (13MP+13MP or 25MP)				
UART	4 x UART Up to 4Mbps; SPI up to 50Mbps				
I2C	Multiple I2C interfaces for TP/Camera/Sensor				
USB	1 x USB 2.0/3.1 support OTG(external 5V power supply)				
SDIO	1 x SD3.0				
GPIO	17 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	CCC*/SRRC*/CTA*/RoHS*	CE*/RoHS*/REACH*/HF*	FCC*/IC*/RoHS*	MIC*/RoHS*	CE*
Operator	NA	NA	AT&T*/T-Mobile*/Verizon*	Docomo*	NA
Industry	NA	GCF*	PTCRB*	NA	NA

* =planning /under development

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