

SOC Smart Module

SC138



Qualcomm Octa-core

2520 x 1080@60fps

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

BT 5.0 BLE

GPS/GLONASS/Beidou

The SC138 smart module is designed with Qualcomm QCM6125 platform. It has an Octa-core high-end platform 4*A73 2.0g + 4*A53 1.8g processor and integrated high-performance graphics engine, which can play 4K video smoothly and support multi-channel camera input. SC138 supports a variety of long-distance communication modes and short-distance 2.4G+5G wireless transmission technologies like Wi-Fi/Bluetooth. With built-in LNA, it supports GNSS wireless positioning technology. SC138 preset open Android operating system with rich extension interfaces such as MIPI/ USB/ UART/ SPI/ I2C, which is the preferred solution for the core system of wireless intelligent products.

The product can be widely used in smart wireless payment, smart robot, smart home, smart city and other industrial fields, is the core system solution outstanding global wireless intelligent product.



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Product Feature

- Dimensions : 41mm x 41mm x 2.8mm
- Package : 148 LCC+ 84 LGA pin
- CPU: Qualcomm' s® QCM6125 Quad-core ARM Cortex™ - • A73, 2.0GHz+Quad-core ARM Cortex™-A53 · 1.8GHz
- Memory: 2GB LPDDR4X+32GB eMMC
- Operating temperature : -30~ +75°C
- Operating voltage : 3.5~4.2V
- Weight : 9.6±0.1g

Multi-Media

- GPU: Adreno™ 610 GPU
- Display: 2520 × 1080
- Video Dec : 4K @30fps (H.264, HEVC, VP8)
- Video Enc : 4K @30fps (H.264, HEVC, VP9)
- Camera : 2X ISP, up to 25MP
- Audio : Analog Audio

Network	SC138-EAU	SC138-W
LTE-FDD	B1/3/5/7/8/20/28	
LTE-TDD	B38/40/41	
WCDMA	B1/B2/5/8	
GSM/EDGE	850/900/1800/1900MHz	
Wi-Fi	802.11 a/b/g/n/ac, 2.4G+5G	802.11 a/b/g/n/ac, 2.4G+5G
BT	5.0 BLE	5.0 BLE
GNSS	GPS/GLONASS/Beidou	
Area	Europe/Asia/Australia/Brazil	Global
Regulation Cert.	RoHS*/CE*/HF*REACH*	CE*RoHS

DATA

- LTE : 3GPP R10 CAT4 : FDD-LTE: Max 150Mbps(DL)/50Mbps(UL)
- TDD-LTE: Max 130Mbps(DL)/30Mbps(UL)
- UMTS/HSPA/HSPA+ : 3GPP R9 CAT6 HSUPA: Max 5.76Mbps(UL)
- CAT24 HSPA+ : Max 42Mbps(DL)
- EDGE/GPRS(Kbps): EDGE: Max 296Kbps(DL)/236.8Kbps (UL)
- GPRS: Max 107Kbps(DL)/85.6Kbps(UL)

Interfaces

- UART/SPI : 3 x UART Up to 4Mbps, 1x SPI
- USB : 1 x USB2.0 up to 480Mbps ,Support OTG
- SDIO : 1 x SD3.0
- CAM : 2x4-lane MIPI_CSI · Up to 2.1G
- 4-lane MIPI_CSI0 connect 1 main camera up to 25MP
- GPIO : 33 GPIO
- Display : 1 x MIPI DSI- 4lanes FHD+(2520*1080)
- USIM : 2 x USIM · 3.0V/1.8V

Operating System

- Android Q

Note : * = Planning ** = Developing