



Model: IS-8822BS1

SDIO WLAN & BT Module

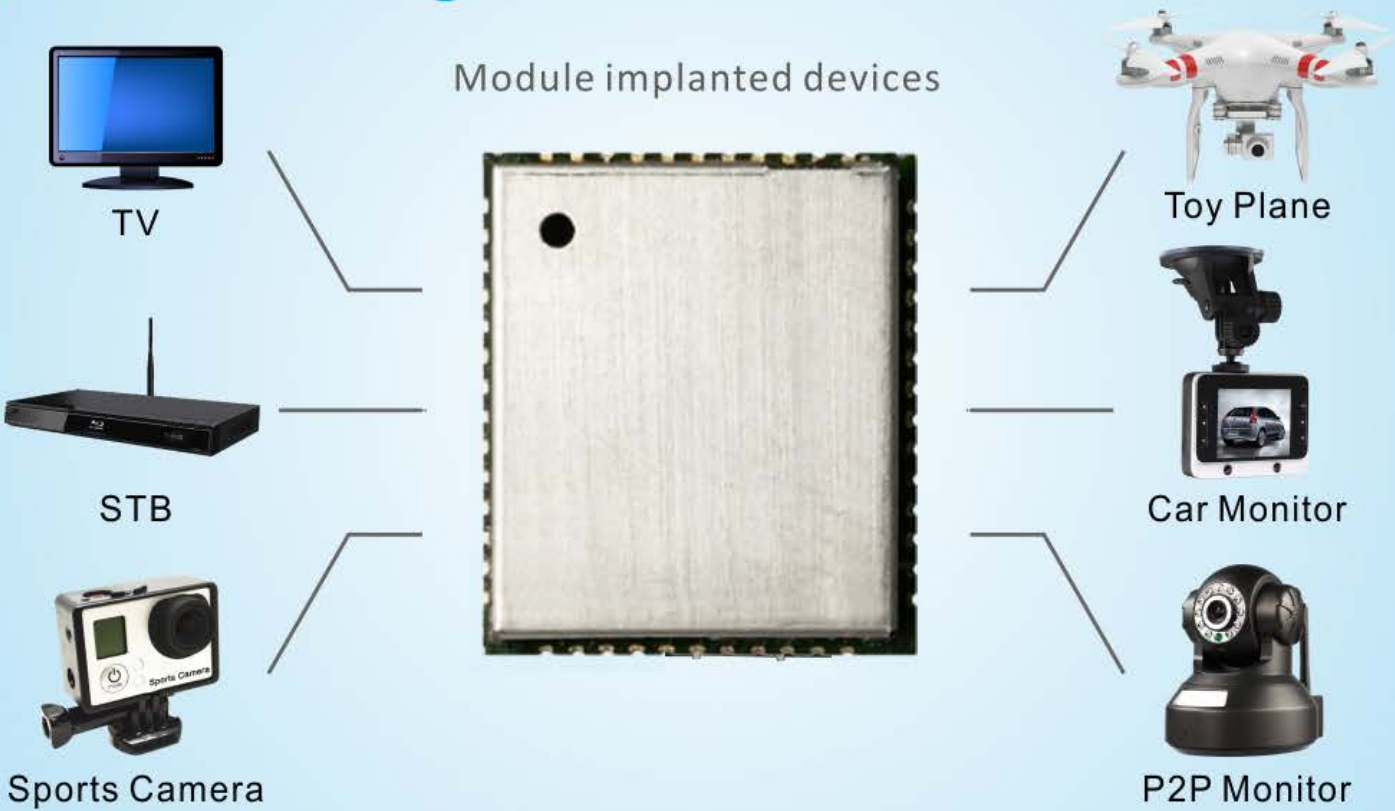
Product Application

- Laptop NB
- Tablet, MID
- USB dongle, DTV

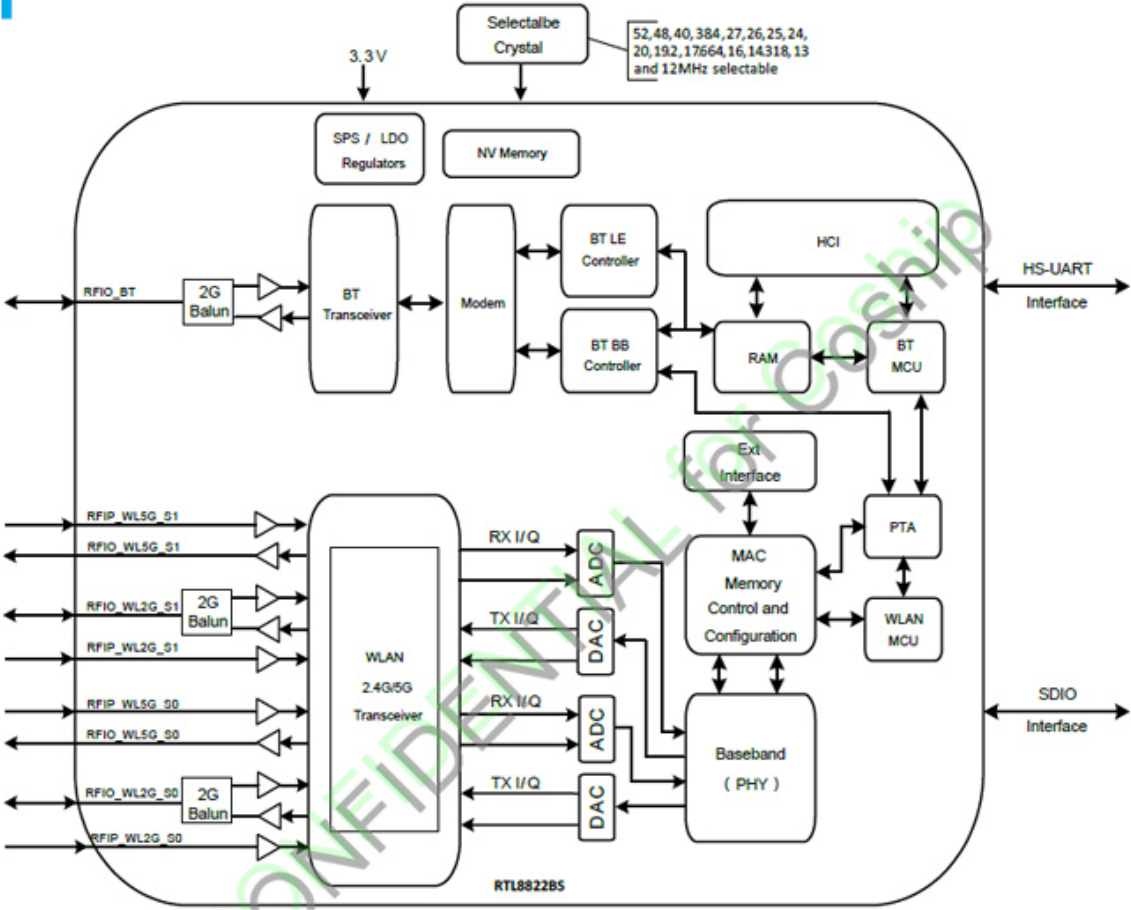
Product Introduction:

IS-8822BS1 product is a highly integrated module that support 2-stream 802.11ac solutions with Multi-user MIMO (Multiple In, Multiple Out) with integrated Bluetooth 2.1/3.0/4.1 controller, SDIO (SDIO1.1/2.0/3.0) interface, and HS-UART Mixed interface. It combines a WLAN MAC, a 2T2R capable WLAN baseband, and RF in a single chip. The product provides a complete solution for a high-performance integrated wireless and Bluetooth device.

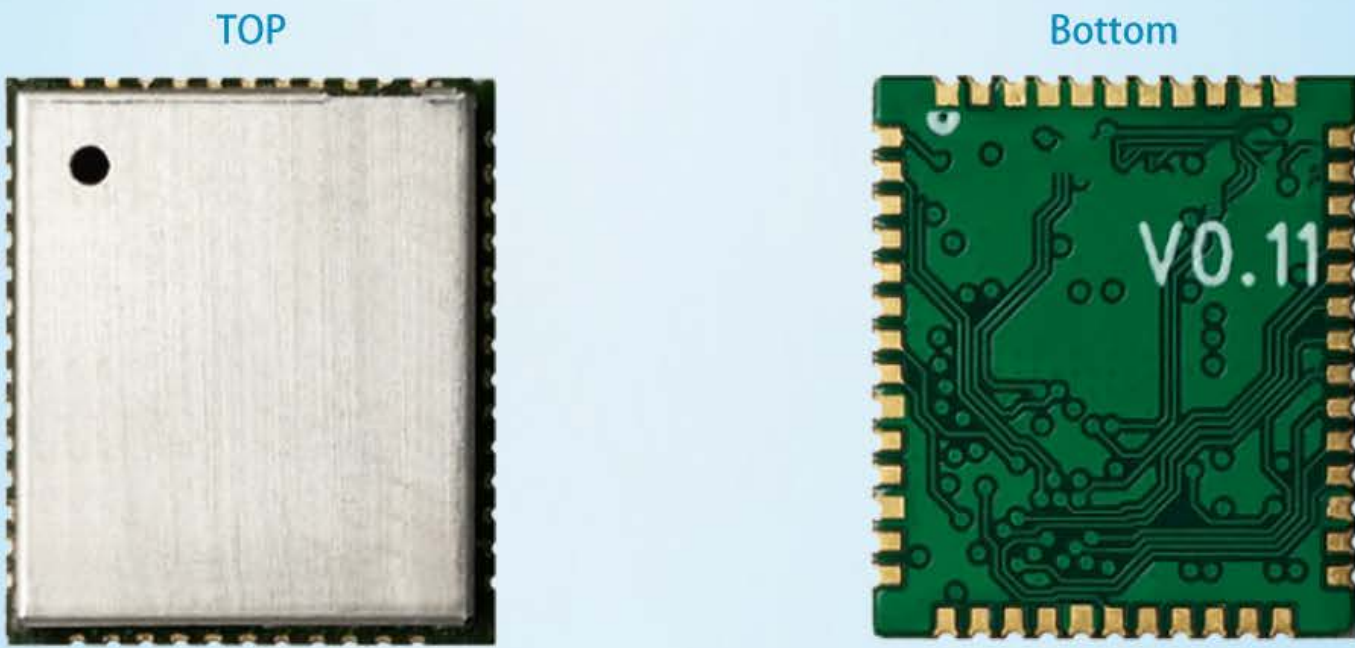
Application Diagram



Block diagram



Product Photo



Specification

Item	Description
Product Name	IS-8822BS1
Main Chip	RTL8822BS-CG
Host Interface	SDIO (SDIO1.1/2.0/3.0) and UART
IEEE Standards	IEEE 802.11a/b/g/n/ac
Operating Frequencies	2.4GHz~2.4835GHz /5.15~5.85Hz
Modulation	WIFI: 802.11b: CCK, DQPSK, DBPSK 802.11a/g: 64-QAM,16-QAM, QPSK, BPSK 802.11n: 64-QAM,16-QAM, QPSK, BPSK 802.11ac: 256-QAM,64-QAM,16-QAM, QPSK, BPSK BT: 8DPSK,π/4DQPSK, GFSK
Working Mode	Infrastructure, Ad-Hoc
Wireless Data Rate	WIFI: 802.11b: 1, 2 ,5.5,11Mbps 802.11a/g: 6,9,12,18,24,36,48,54Mbps 802.11n: HT20 reach up to144.4Mbps, HT40 reach up to300Mbps 802.11ac: VHT20 reach up to173.3Mbps, VHT40 reach up to400Mbps, VHT80 reach up to866.7Mbps BT: 1Mbps for Basic Rate 2,3Mbps for Enhanced Date Rate
Rx Sensitivity	-95dBm (Min)
TX Power	18.5dBm (Max)
Antenna Type	Connect to external antenna through the half hole connector
Dimension(L*W*H)	13.1*15.1*3.5mm (L*W*H) , Tolerance: ±0.15mm
Power Supply	3.3V±0.2V
Power Consumption	Standby 195mA (Max) TX mode 650 mA (Max)
Clock Source	40MHz
Working Temperature	-10°C to +50°C
Storage Temperature	-40°C to +70°C