

Operational Description

The supply voltage of TR5R822S2 module VBAT is 3.3V, and the supply voltage of VDDIO is 1.8V. After the module is energized, driving the IC RTL8822CS-VS-CG to work together with a 40 MHz crystal oscillator. Through the peripheral RF component diplexer IC, the related circuits.2.4G and 5G WIFI signal and BT signal are transmitted to realize WIFI communication and Bluetooth communication.

EDR:

Operating Frequency	2402MHz~2480MHz
Modulation	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Number of Channels	79 Channels
Antenna Type	Rod antenna
Antenna Gain	2.53 dBi

BLE:

Operating Frequency	2402MHz~2480MHz
Modulation	GFSK
Number of Channels	40 Channels
Antenna Type	Rod antenna
Antenna Gain	2.53 dBi

WIFI 2.4G:

Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20); 2422-2452MHz for 802.11n(HT40);
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Number of Channels	11 channels for 802.11b/g/11n(HT20); 7 channels for 802.11n(HT40);
Antenna Type	Antenna1: Rod antenna Antenna 2: Rod antenna
Antenna Gain	Antenna1: 2.53dBi; Antenna 2: 2.53dBi

WIFI 5G:

Mode Supported	☒ 802.11a ☒ 802.11n(HT20) ☒ 802.11n(HT40) ☒ 802.11ac(HT20) ☒ 802.11ac(HT40) ☒ 802.11ac(HT80)
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9
Modulation	OFDM with BPSK/QPSK/16QAM/64QAM /256QAM
Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
Support TPC	☐ YES ☒ NO
Antenna Type	Antenna1: Rod antenna Antenna2: Rod antenna
Antenna Gain	Antenna1: 3.16dBi; Antenna2: 3.16dBi
Smart system	☒ SISO for 802.11a/n/ac ☒ MIMO for 802.11n/ac