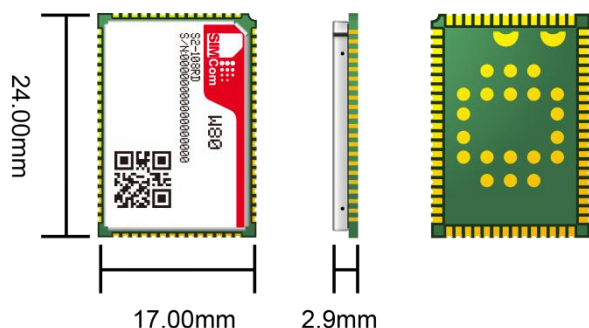


W80

Wi-Fi & BT Module with LCC+LGA Package



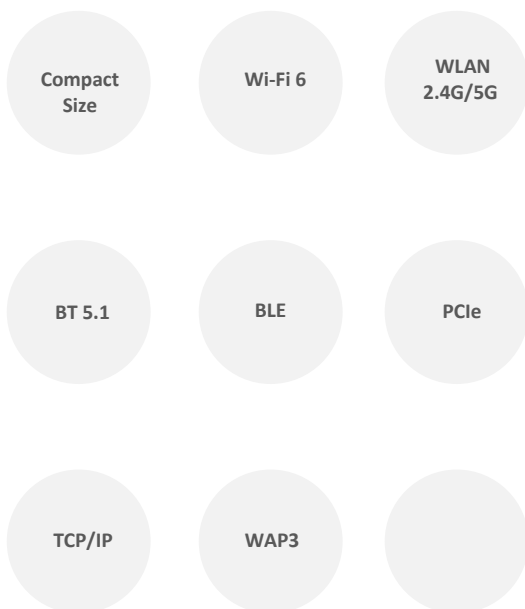
Product Description

W80 is a small, low-power, Wi-Fi & BT module based on Qualcomm QCA-6391 chipset.

The module conforms to IEEE standard 802.11a/b/g/n/ac/ax.

The module is integrated with the WLAN/BT processor, BT baseband and 2.4G/5G RF transceivers. It support data communication between SIMCom 5G module SIM8200G through PCIe interface.

The module can be used in 5G CPE, mifi, car networking, router, and other wireless terminals.



Key Benefits

- Compact LCC +LGA Package Wi-Fi & BT Module
- Support IEEE Standard protocol of 802.11a/b/g/n/ac/ax
- Support 2.4GHz and 5GHz
- Support BT 5.1 and BLE
- Support 2x2+2x2 MU-MIMO

Smart machine Smart decision

Tel:86-21-31575100
 simcom@simcom.com
 www.simcom.com

General Features

- WLAN Frequency 2.4GHz/5GHz
- VPH voltage range: 3.3V ~ 4.4V, Typ: 3.8V
- Operation temperature: -30°C ~ +70°C
- Dimensions: 17*24*2.6mm
- Weight: 2g
- WLAN Standard: IEEE802.11 a/b/g/n/ac/ax, 2x2+2x2, dual MAC
- Modulation Mode: CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
- Encryption Mode: WPA3
- Operator Mode: AP, STA
- BT Protocol: BT 5.1

Max Data Rate

- 802.11ax: 1.775Gbps(2x2+2x2)
- BT 5.1: 2Mbps

Certifications (plan)

- CE*
- RoHS / REACH*

Transmitting Power

- 802.11ac_HT20/MCS9: 14dBm
- 802.11ac_HT40/MCS9: 14dBm
- 802.11ac_HT80/MCS9: 14dBm
- 802.11ax_HT20/MCS11: 12dBm
- 802.11ax_HT40/MCS11: 12dBm
- 802.11ax_HT80/MCS11: 12dBm

Receive Sensitivity

- 802.11ac_VHT20/MCS9: TBD (2.4GHz)
- 802.11ac_VHT40/MCS9: TBD (2.4GHz)
- 802.11ax_HE20/MCS11: -63dBm (2.4GHz)
- 802.11ax_HE40/MCS11: TBD (2.4GHz)
- 802.11ac_VHT40/MCS9: TBD (5GHz)
- 802.11ac_VHT80/MCS9: TBD (5GHz)
- 802.11ax_HE20/MCS11: -62dBm (5GHz)
- 802.11ax_HE40/MCS11: TBD (5GHz)
- 802.11ax_HE80/MCS11: TBD (5GHz)

Interfaces

- I2S
- PCIe
- BT
- UART
- GPIOs
- WLAN Antenna x 2