

W58

Wi-Fi & BT Module with
Ultra-compact LCC Package



Ultra
Compact
Size

LCC
Package

Wi-Fi
2.4G

Bluetooth
3.0 & 4.1

SDIO

Product Description

W58 is a small, low-power, low-cost Wi-Fi & BT module based on Qualcomm QCA-9377-3 chipset.

The module can be used in car networking, wireless routing, and other wireless terminals.

The module conforms to IEEE Standard 802.11b/g/n.

The module is integrated with the baseband, PA and 2.4G RF transceivers, and supports data communication between SIMCom LTE CAT-4 modules (SIM7600x-H series module) through SDIO3.0 interface.

Key Benefits

- Ultra-compact LCC Package Wi-Fi & BT Module
- Support BT 3.0 and BLE 4.1
- Support IEEE Standard protocol of 802.11b/g/n
- Wide operation temperature range (-40°C to +85°C)
- Max Access Point is 30

Smart machine Smart decision

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General Features

Frequency band: 2.412 ~ 2.484 GHz
Supply Voltage Range: 3.2V~ 3.4V , 3.3V Typ.
Temperature Range: -40℃ to +85℃
Dimension: 16.6 *13.0*2.1 mm
Weight: 1g

WLAN Standard: IEEE 802.11 b/g/n
Modulation Mode: CCK, BPSK, QPSK, 16QAM, 64QAM
Encryption Mode: WEP, TKIP, AES, WPA-PSK, WPA2-PSK
AP (Max Access Point): 30
Operator Mode: AP, STA
BT Protocol: SPP (BT 3.0), GATT (BLE 4.1)

Max Data Rate

802.11b: 11Mbps
802.11g: 54Mbps
802.11n_HT20: 65Mbps
802.11n_HT40: 135Mbps
BT 4.1: 24Mbps

Transmitting Power

802.11b/11Mbps: 18dBm
802.11g/54Mbps: 15dBm
802.11n_HT20/65Mbps: 15dBm
802.11n_HT40/135Mbps: 14dBm

Rx Sensitivity

802.11b/1Mbps: -95dBm
802.11b/11Mbps: -94dBm
802.11g/6Mbps: -91dBm
802.11g/54Mbps: -78dBm
802.11n_HT20 MCS0: -90dBm
802.11n_HT40 MCS7: -75dBm

Interfaces

SDIO 3.0
UART
LTE coexistence
BT_EN
WLAN_EN
WiFi & BT Antenna

Certifications (plan)

CE
RoHS / REACH

Smart machine Smart decision

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