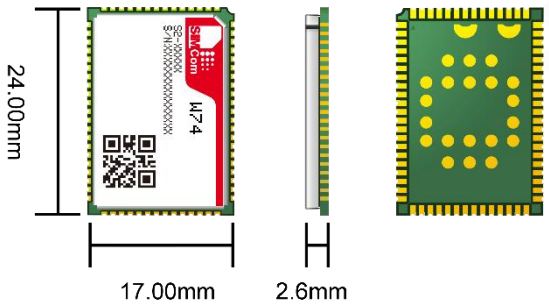
V 2022.03

W74

Wi-Fi & BT Module with LCC+LGA Package



Compact Size | Wi-Fi 5 | 2.4G/5G

BT5.0 | BLE | PCIe

W74 is a small, low-power, Wi-Fi & BT module based on Qualcomm QCA6174A chipset.

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

The module is integrated with the WLAN/BT processor, baseband and 2.4G/5G RF transceivers. It support data communication between SIMCom LTE-A module SIM7906/SIM7912 through PCIe interface.

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

- Compact LCC +LGA Package Wi-Fi & BT Module
- Support IEEE Standard protocol of 802.11a/b/g/n/ac
- Support 2.4GHz and 5GHz
- Support BT 5.0 and BLE

Copyright © 2021 SIMCom Wireless Solutions Limited All Rights Reserved
SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R. China
Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com

General Features

WLAN Frequency	2.4GHz/5GHz
Voltage range	3.2V ~ 3.4V, Typ: 3.3V
Operation temperature	-30℃ ~ +70℃
Dimensions	17*24*2.6mm
Weight	2g±0.2g
WLAN Standard	IEEE802.11 a/b/g/n/ac
Modulation Mode	CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Encryption Mode	WPA3
Operator Mode	AP,STA
BT Protocol	BT 5.0

Transmitting Power

802.11ac_VHT20/MCS8：	14dbm
802.11ac_VHT40/MCS9：	13dbm
802.11ac_VHT80/MCS9：	13dbm

Receive Sensitivity

802.11ac_VHT20/MCS8：	-67.8dbm （5GHz）
802.11ac_VHT40/MCS9：	-63.3dbm （5GHz）
802.11ac_VHT80/MCS9：	-59.5dbm （5GHz）

Data

802.11ac：	TBD Gbps
BT 5.0：	TBD Mbps

Interfaces

I2S
PCIe
BT
UART
GPIOs
WLAN Antenna *2

Certifications

CE(RED)* FCC* IC*
RoHS*/REACH*

notice

*：means under developing/on-going/planning going

Copyright © 2021 SIMCom Wireless Solutions Limited All Rights Reserved
SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R. China
Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com