



SunComm

SunComm Technology Co., Ltd

SC-9001-WUC 4G WIFI Router USB with C-Type



The **SC-9001-WUC** is a wireless communication product designed to meet the requirements of 3G/4G LTE networks. It supports global 3G/4G LTE standards and frequency bands, providing high-speed 4G LTE CAT 4 wireless access. The theoretical maximum downlink speed is 150 Mbps, while the theoretical maximum uplink speed is 50 Mbps. Additionally, it supports 802.11AX (Wi-Fi 6) on the 2.4 GHz band, enabling more than 10 users to access the Internet via its Wi-Fi hotspot. The **SC-9001-WUC** offers stable, high-speed wireless broadband connectivity for both home and business users.

Easy to use and easy maintenance:

- User friendly web interface for user interaction.
- Supports local web UI and remote FOTA update firmware.

Product features:

- Wireless Mobile Broadband 3G/4G LTE connection.
- Supports 3G/4G LTE global frequency bands.
- Supports 802.11AX, WIFI 6, 2.4GHz frequency band.
- Supports 1 x USB 2.0 port to charge.
- USB power Input Range. DC +5V/1A
- ABS fireproof plastic material shell.

Operating system

- Built-in **Linux 3.4** operating system. Supports user secondary application development.

SPECIFICATIONS

Cellular feature

3G/4G Frequency bands	Version E. FDD-LTE B1/B3/B7/B8/B20/B28 TD-LTE B38/B40/B41 WCDMA B1/B8 Version A: FDD-LTE B2/B4/B5/B7/B28/B66 TD-LTE B38/B40/B41 WCDMA B2/B5 Remarks: More frequency bands or requirements please contact with us.
3G/4G Data rates	LTE: LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL) UMTS: DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)
LTE features	Support up to non-CA CAT 4. Support 1.4 to 20MHz RF bandwidth. Support MIMO in DL direction FDD. Max 50Mbps (UL), 150Mbps (DL) TDD. Max 35Mbps (UL), 130Mbps (DL)
UMTS features	Supports 3GPP R8 DC-HSPA+ Supports 16-QAM, 64-QAM and QPSK modulation 3GPP R6 Cat 6 HSUPA: Max 5.76Mbps (UL) 3GPP R8 Cat 24 DC-HSPA+: Max 42Mbps (DL)

3G/4G Sensitivity	LTE B1: -101.5dBm (10M) LTE B2: -101dBm (10M) LTE B3: -101.5dBm (10M) LTE B4: -101dBm (10M) LTE B5: -101dBm (10M) LTE B7: -99.5dBm (10M) LTE B8: -101dBm (10M) LTE B20: -102.5dB (10M) LTE B28: -102dBm (10M) LTE B38: -100dBm (10M) LTE B40: -100dBm (10M) LTE B41: -99dBm (10M) LTE B66: -99dBm (10M) WCDMA B1: -110dBm WCDMA B2: -110dBm WCDMA B5: -110.5dBm WCDMA B8: -110.5dBm
3G/4G/5G Transmitting Power	Class 3 (24dBm+1/-3dB) for WCDMA bands Class 3 (23dBm±2dB) for LTE-FDD bands Class 3 (23dBm±2dB) for LTE-TDD bands
Antennas	4G LTE internal antenna, 2 x 2 MIMO, with 50 Ω impedance.
SIM card feature	
SIM card	Supports 1 x SIM slot, 1.8V / 3V. or 1 x eSIM card. (Optional)
Hardware feature	
CPU	ARM Cortex - A7, 1G
MEMORY	FLASH 16MByte, DDR2 128MByte
Hardware interface	1 x USB2.0 port
Watchdog	Built-in watchdog feature.
Key button	WPS, Reset
LED status indicator	Power, net, WIFI,
Power Supply	DC input. DC 5V/1A, It charge via USB Type-C
Peak current	Max current. 0.4A @5V
Working current	Max 1.9W @5V
Power Consumption	Idle. Max 0.43W @5 V Data link. Max 1.9W @5 V Peak. Max 3.2W @5V
Temperature	Operating Temperature 0 °C ~+45°C, Storage Temperature -10~+55°C
Environment humidity	5%~95%, no condensation.
Ingress Protection	IP30
Housing	ABS plastic material, white shell.
Dimensions	56.5mm * 52mm * 11mm
Installations	Desktop mounted
Weight	70g

Wi-Fi

WLAN	IEEE 802.11AX, WIFI 6. Supports 20MHz,40MHz channel bandwidth in 2.4GHz band. Max bandwidth 300Mbps in 1T/1R 2.4GHz band.
Wireless Mode	Supports AP (Access Point), Client
Wireless Speed	300Mbps @2.4GHz.
Wireless Security	Supports WPA, WPA2, WPAI, WEP, TKIP encryption.
Antennas	Internal antenna, with 50 Ω impedance.
WIFI hotspot sharing	Supports more than 8 users to share WIFI access to the Internet.
WIFI Rx Sensitivity	2.4GHz Rx sensitivity. 11Mbps:≤-90dBm. 54 Mbps:≤-72dBm. HT20 MCS7:≤-69dBm.
WIFI transmit power	2.4GHz Tx power. TX CCK, 11Mbps @ -17dBm HT20,MCS 7 @ -16dBm HT40,MCS 7 @ -15dBm
Frequency Bands	2.4GHz
Software feature	
Parameter settings	Supports automatic detection of MNC and MCC parameters of global operators. Built-in global operator APN, user name, password and other network parameters. At the same time, manual setting of network parameters is supported.
Dial method	After the device is powered on, the system automatically dials up to connect to the network.
Protocol	Supports PPTP,TCP,UDP,DHCP,HTTP,TR-069,HTTPS etc protocols.
Routing	Supports static routing, multiple routing tables.
Data Link Assurance	Built-in link maintenance and self-recovery mechanism.
Firewall	Support flexible access control of TCP, UDP, ICMP packets. Supports port Mapping, NAT etc feature.
Firmware update	Supports local WebUI and remote OTA update firmware.
Embedded syste	Linux 3.4
MONITORING	
Web GUI	HTTP, Firmware Upgrade

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