SC-5003-5GR 5G CPE indoor Router with 2 Gigabit Ethernet ports, one RJ11, WIFI hotspots

SC-9003-5GR Cellular indoor router is a wireless communication product developed based on 4G LTE/5G network requirements. Supports 4G LTE/5G global frequency bands. Supports 4G LTE/5G internet high speed access. Support 5G NSA. Up to 2.5Gbps (DL)/650Mbps (UL), 5G SA. Maximum 2.1Gbps (DL)/900Mbps (UL) access bandwidth service.

It supports 2 Gigabit Ethernet ports, one RJ11 telephone port, and supports VOLTE voice. Support for 802.11AX WIFI 6, 2.4GHz/5GHz dual-band function. Meet the needs of families, enterprises, and chain stores to provide 4G/5G high-speed Internet access services. And provide users with WIFI 6, AX1800 large bandwidth hotspot sharing. Meet the access and sharing of more than 32 users' WIFI hotspots.

Product features:

◆ Wireless Mobile Broadband 3G/4G LTE/ 5G Connection. Supports 3G/4G/5G global frequency bands.

◆ System crashes and automatically recovers. The system automatically maintains the data link and is permanently online.

◆ Supports Multiple VPN tunnels for data encryption .

◆ Power supply. DC 12V/1.5A

◆ Industrial design for harsh environment.

◆ ABS   plastic material shell. Novel and fashionable appearance.

Easy to use and easy maintenance:

◆ User friendly web interface for user interaction.

◆ Supports Central Management Platform.

◆ Supports local web UI and remote FOTA update firmware

Operating system:

◆ Built-in OpenWRT 19.07 operating system.

LTE Band:

3G/4G/5G data connectivity	It provides data connectivity on 5G NR SA and NSA, LTE-FDD, LTE-TDD, DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA networks.
3G/4G/5G Frequency bands	**Band Version 1** 5G NR. n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79 LTE-FDD. B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32 LTE-TDD. B34/B38/B39/B40/B41/B42 WCDMA. B1/B3/B5/B6/B8/B19 DL 4*4 MIMO. B1/B3/B38/B40/B41/B42 **Band Version 2** 5G NR. n2/n5/n7/n12/n25/n41/n48/n66/n71/n77/n78 LTE-FDD. B2/B4/B5/B12/B13/B14/B25/B26/B29/B30/B66/B71/B41 LTE-TDD. B41/B48 WCDMA. B2/B4/B5 DL 4*4 MIMO. B2/B4/B25/B30/B41/B66 **Remarks.** More frequency bands or requirements please contact with us.
3G/4G/5G Data rates	◆ **5G NSA.** Max 2.5Gbps (DL)/650Mbps (UL) ◆ **5G SA.** Max 2.1Gbps (DL)/900Mbps (UL) ◆ **LTE.** Max 1.0Gbps (DL)/200Mbps (UL) ◆ **DC-HSDPA.** Max 42Mbps (DL) ◆ **HSUPA.** Max 5.76Mbps (UL) ◆ **WCDMA** Max 384Kbps (DL)/384Kbps (UL)

5G NR features	3GPP Rel-15 ◆ Modulation: - Uplink 256QAM - Downlink 256QAM ◆ Downlink 4 ×4 MIMO on n1/n2/n3/n7/25/n38/n40/n41/n48/n66/n77/n78/n79 ◆ Uplink 2 × 2 MIMO on n41/n77/n78/n79 ◆ SCS 15 kHz and 30 kHz ◆ 5G NR refarmed band bandwidth ≤ 20 MHz ◆ 5G NR n41/n77/n78/n79 bandwidth ≤ 100 MHz ◆ SA and NSA operation modes ◆ NSA on n41/n77/n78/n79 ◆ SA on all the 5G bands ◆ Option 3x, 3a, and Option 2
LTE features	◆ Supports up to CA Cat 20 FDD and TDD ◆ Supports uplink QPSK, 16-QAM and 64-QAM and 256-QAM modulation ◆ Supports downlink QPSK, 16-QAM and 64-QAM and 256-QAM modulation ◆ Supports 1.4MHz to 20MHz (5×CA) RF bandwidth ◆ Supports 4 * 4 MIMO in DL direction
UMTS features	◆ Supports 3GPP R8 DC-HSDPA, HSPA+, HSDPA standard. ◆ Supports QPSK, 16-QAM and 64-QAM modulation.
3G/4G/5G **Receiving Sensitivity**	WCDMA B1 , -106.7 dBm WCDMA B2 , -104.7 dBm WCDMA B3 , -103.7 dBm WCDMA B4 , -106.7 dBm WCDMA B5 , -104.7 dBm WCDMA B6 , -106.7 dBm WCDMA B8 , -103.7 dBm WCDMA B19 , -106.7 dBm LTE-FDD B1(10MHz) , -96.3 dBm LTE-FDD B2(10MHz) , -94.3 dBm LTE-FDD B3(10MHz) , -93.3 dBm LTE-FDD B4(10MHz) , -96.3 dBm LTE-FDD B5(10MHz) , -94.3 dBm LTE-FDD B7(10MHz) , -94.3 dBm LTE-FDD B8(10MHz) , -93.3 dBm LTE-FDD B12(10MHz) , -93.3 dBm LTE-FDD B13(10MHz) , -93.3 dBm LTE-FDD B14(10MHz) , -93.3 dBm LTE-FDD B17(10MHz) , -93.3 dBm LTE-FDD B18(10MHz) , -96.3 dBm LTE-FDD B19(10MHz) , -96.3 dBm LTE-FDD B20(10MHz) , -96.3 dBm LTE-FDD B25(10MHz) , -92.8 dBm LTE-FDD B26(10MHz) , -93.8 dBm LTE-FDD B28(10MHz) , -94.8 dBm

	LTE-FDD B30(10MHz) , -95.3 dBm
	LTE-FDD B32(10MHz) , -96.3 dBm
	LTE-FDD B66(10MHz) , -95.8 dBm
	LTE-FDD B71(10MHz) , -94.3 dBm
	LTE-TDD B38(10MHz) , -96.3 dBm
	LTE-TDD B39(10MHz) , -96.3 dBm
	LTE-TDD B40(10MHz) , -96.3 dBm
	LTE-TDD B41(10MHz) , -94.3 dBm
	LTE-TDD B42(10MHz) , -95 dBm
	LTE-TDD B43(10MHz) , -95 dBm
	LTE-TDD B46(20MHz) , -88.5 dBm
	LTE-TDD B48(10MHz) , -95 dBm
	5G NR-FDD n1(20MHz) (SCS:15KHz), -94 dBm
	5G NR-FDD n2(20MHz) (SCS:15KHz), -92 dBm
	5G NR-FDD n3(20MHz) (SCS:15KHz), -91 dBm
	5G NR-FDD n5(10MHz) (SCS:15KHz), -95 dBm
	5G NR-FDD n7(20MHz) (SCS:15KHz), -92 dBm
	5G NR-FDD n8(10MHz) (SCS:15KHz), -94 dBm
	5G NR-FDD n12(10MHz) (SCS:15KHz), -94 dBm
	5G NR-FDD n20(10MHz) (SCS:15KHz), -94 dBm
	5G NR-FDD n25(20MHz) (SCS:15KHz), -90.5 dBm
	5G NR-FDD n28(10MHz) (SCS:15KHz), -96 dBm
	5G NR-TDD n38(20MHz) (SCS:30KHz), -94 dBm
	5G NR-TDD n40(20MHz) (SCS:30KHz), -94 dBm
	5G NR-TDD n41(20MHz) (SCS:30KHz), -92 dBm
	5G NR-TDD n66(20MHz) (SCS:15KHz), -93.5 dBm
	5G NR-TDD n71(10MHz) (SCS:15KHz), -94 dBm
	5G NR-TDD n77(20MHz) (SCS:30KHz), -92.9 dBm
	5G NR-TDD n78(20MHz) (SCS:30KHz), -92.9 dBm
	5G NR-TDD n79(40MHz) (SCS:30KHz), -89.7 dBm
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. ◆ Class 3 (23dBm±2dB) for 5G NR bands. ◆ Class 2 (26dBm±2dB) for LTE B38/B40/B41/B42 bands. ◆ Class 2 (26dBm±2dB) for 5G NR n41/n77/n78/n79 bands .
Antennas	8 * 4G/5G internal antenna,4*4 MIMO, with 50 Ω impedance.
SIM card	Supports 1* SIM slots, 1.8V / 3V . Or 1* eSIM card. (**Optional**)
Working Mode	3G/4G Wireless router mode Standard router mode
System Support	Windows/linux/Mac/Android

Hardware feature:

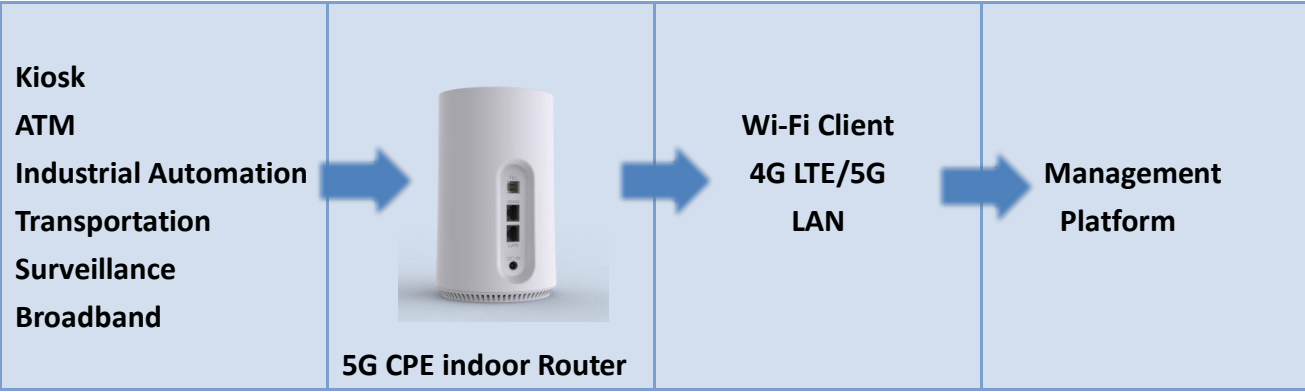|	
CPU	Qualcomm SDX55, ARM A7
MEMORY	NAND FLASH 4Gb, LPDDR4X 4Gb
Hardware interface	2* LAN gigabit Ethernet ports. 1*USB2.0 port,1*RJ11 VOLTE (**Optional**)
Watchdog	Built-in watchdog feature.
Key button	Reset, WPS
Protection level	Ethernet port , Contact electric shock, +/-4KV, air discharge: +/-8KV.
LED status indicator	5G,4G,WIFI
Power Supply	Power supply input. DC 12V/1.5A
Peak current	Max current. 2.5A @12V
Working current	Max 280 mA, 3.36W @12 V
Power Consumption	**Idle.** 120mA, 1.44W @12 V **Data link.** Max 280 mA, 3.36W @12 V **Peak.** Max 470mA , 5.64W @12V
Temperature	Operating Temperature 0 ºC ~+50ºC, Storage Temperature -10~+55ºC
Environment	5%~95% , no condensation.
Ingress Protection	IP30
Housing	ABS plastic material, white shell.
Dimensions	112mm * 195mm * 106mm
Installations	Desktop placement
Weight	320g

Wi-Fi 6:

WLAN	◆ IEEE 802.11 A/B/G/N/AC/AX, AX1800 . Max bandwidth 1774.5Mbps ◆ 2.4 GHz WLAN. 2.400–2.4835 GHz,5 GHz WLAN. 5.150–5.850 GHz, BT5.1. 2.402–2.480 GHz (**Optional**)
Wireless Mode	Access Point (AP), Client
Wireless Security	Supports WPA, WPA3,WPAI, WEP, TKIP encryption.

Transmission Data Rates	◆ 802.11a: 6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps,48 Mbps, 54 Mbps ◆ 802.11b: 1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps ◆ 802.11g: 6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps,48 Mbps, 54 Mbps ◆ 802.11n: HT20 (MCS0-7), HT40 (MCS8-15　◆ 802.11ac: VHT20 (MCS0-8), VHT40 (MCS0-9), VHT80 (MCS0-9) ◆ 802.11ax: HE20 (MCS0-11), HE40 (MCS0-11), HE80 (MCS0-11)
WIFI transmit power	**2.4 GHz** 802.11b @ 11 Mbps: 20 dBm 802.11g @ 54 Mbps: 17 dBm 802.11n, HT20 @ MCS7: 16 dBm 802.11n, HT40 @ MCS7: 16 dBm 802.11ax, HE20 @ MCS11: 13 dBm 802.11ax, HE40 @ MCS11: 13 dBm **5 GHz** 802.11a @ 54 Mbps: 15.5 dBm 802.11n, HT20 @ MCS7: 15 dBm 802.11n, HT40 @ MCS7: 15 dBm
WIFI Modulation	BPSK, QPSK, CCK, 16QAM, 64QAM, 256QAM, 1024QAM
WIFI Rx Sensitivity	◆ 802.11ac/1SS MCS9_40： -64.5dBm（2GHz） ◆ 802.11ax/1SS MCS11_40： -64dBm（2GHz） ◆ 802.11ac/2SS MCS9_40： -62.5dBm（2GHz） ◆ 802.11ax/2SS MCS11_40 ： -61.5dBm（2GHz） ◆ 802.11ac/1SS MCS9_80： -62dBm（5GHz） ◆ 802.11ax/1SS MCS11_80： -61dBm（5GHz）
Antennas	2*2 MIMO internal antenna, with 50 Ω impedance.
WIFI hotspot sharing	Supports more than 32 users to share WIFI access to the Internet.

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,
Dial method	After the device is powered on, the system automatically dials up to connect to the network.
Protocol	Supports PPTP,L2TP,IPSEC VPN,TCP,UDP,DHCP,HTTP,DDNS,TR-069,HTTPS,SSH etc
Routing	Supports static routing, multiple routing tables.
Bridge	Supports 4G/5G bridge mode feature.
Multiple APN	Supports multiple APN access network.
System Assurance	Supports system automatic detection mechanism, automatic recovery of system abnormality

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.
DDNS	Supported some service providers, others can be configured manually.
Firmware update	Supports local WebUI and remote OTA update firmware.
VLAN	Supports VLAN feature.
Embedded system	**OpenWRT 19.07**
Application development	Supports secondary development of application functions based on our device motherboard software.

VPN:

VPN Feature	Supports Open VPN, IPSEC VPN, PPTP, L2TP etc VPN feature.

MONITORING: & MANAGEMENT:

Web GUI	HTTP, Firmware Upgrade
Command Line Interface	SSHv2 ,telnet
Management platform	Remote Management Platform

TYPICAL APPLICATION:

Kiosk
ATM
Industrial Automation
Transportation
Surveillance
Broadband

5G CPE indoor Router

Wi-Fi Client
4G LTE/5G
LAN

Management Platform

SunComm **Technology Co., Ltd**

7F, No. 53, Jian-Kang Rd., Zhong-he Dist., New Taipei City, Taiwan 23586

www.suncomm.com.tw   www.suncomm-4glte.com

Tel: 886-2-3234 1496 Fax: 886-2-3234 1393

E-mail: sales2@suncomm.com.tw

China: www.suncomm.cn   Tel: +86-136 8884 2805