

SunComm

SunComm Technology Co., Ltd

SC-5502-5GR 5G CPE Outdoor Router, Support GPS (optional)



SC-5502-5GR Outdoor router is a wireless communication product developed based on 3G/4G LTE/5G network requirements. Supports 3G/4G LTE/5G global frequency bands. Supports 3G/4G LTE/5G internet high speed access.

Support 5G NSA. **Up to 3.4Gbps (DL)/600Mbps (UL)** of NSA mode. 5G SA maximum 2.4Gbps (DL)/1Gbps (UL) access bandwidth service. It supports one 2.5Gigabit Ethernet port. Optional support for GPS/GNSS function. The equipment is designed to meet waterproof and dustproof requirements. Protection class IP65. At the same time, it meets the requirements of 5KA lightning protection. Meet the needs of families, enterprises, and chain stores to provide 3G/4G/5G high-speed Internet access services.

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.
- POE power supply input. DC +12/1.5A~36V/0.5A
- ABS plastic material shell. Novel and fashionable appearance
- Industrial design for harsh environment.

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.

Cellular feature	
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	<ul style="list-style-type: none">• Version E 5G NR: 5G NSA : n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n48/n77/n78/n79 5G SA : n1/n3/n5/n7/n8/n20/n26/n28/n38/n40/n41/n48/n77/n78/n79 LTE FDD : B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32 LTE-TDD : B38/B39/B40/B41/B42/B43/B46*/B48 WCDMA: B1/B5/B8• Version A 5G NR: 5G NSA : n2/n5/n7/n12/n14/n25/n26/n30/n38/n41/n48/n66/n71/n77/n78/n79 5G SA : n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n71/n77/n78/n79 LTE FDD : B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B66/B71 LTE-TDD : B38/B41/B42/B43/B46*/B48 WCDMA: B1/B2/B4/B5 Remarks. More frequency bands or requirements please contact with us.
3G/4G/5G Data rates	<ul style="list-style-type: none">◆ 5G NSA. Max 3.4Gbps (DL)/600Mbps (UL)◆ 5G SA. Max 2.4Gbps (DL)/1Gbps (UL)◆ LTE. Max 1.6Gbps (DL)/200Mbps (UL)◆ HSPA+. Max 42Mbps (DL)/ 5.76Mbps (UL)◆ WCDMA Max 384Kbps (DL)/384Kbps (UL)

	<ul style="list-style-type: none"> ◆ 3GPP Release 16 ◆ Supported modulations: <ul style="list-style-type: none"> - Uplink: $\pi/2$-BPSK, QPSK, 16QAM, 64QAM and 256QAM - Downlink: QPSK, 16QAM, 64QAM and 256QAM ◆ Supported SCS: 15 kHz 2 and 30 kHz 2 ◆ SA 3 and NSA 3 operation modes supported on all the 5G band ◆ Option 3x, 3a, 3 and Option 2 ◆ Maximum transmission data rates 4: <ul style="list-style-type: none"> - NSA: 3.4 Gbps (DL)/ 550 Mbps (UL) - SA: 2.4 Gbps (DL)/ 900 Mbps (UL)
LTE features	<ul style="list-style-type: none"> ◆ 3GPP Release 16 ◆ LTE Category: DL Cat 19/ UL Cat 18 ◆ Supported modulations. <ul style="list-style-type: none"> - Uplink: QPSK, 16QAM and 64QAM and 256QAM - Downlink: QPSK, 16QAM and 64QAM and 256QAM ◆ Supports 1.4/3/5/10/15/20 MHz RF bandwidth ◆ Maximum transmission data rates. - 1.6 Gbps (DL)/ 200 Mbps (UL)
UMTS features	<ul style="list-style-type: none"> ◆ 3GPP Release 9, DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA. ◆ Supported modulations. QPSK, 16QAM and 64QAM ◆ Maximum transmission data rates. <ul style="list-style-type: none"> - HSPA+. 42 Mbps (DL)/ 5.76 Mbps (UL) - WCDMA. 384 kbps (DL)/ 384 kbps (UL)

3G/4G/5G Receiving Sensitivity	5G NR-FDD n1(20MHz), -94.3 dBm 5G NR-FDD n2(20MHz), -94.3 dBm 5G NR-FDD n3(20MHz), -94.5 dBm 5G NR-FDD n5(10MHz), -95.5 dBm 5G NR-FDD n7(20MHz), -94.7 dBm 5G NR-FDD n8(20MHz), -96.2 dBm 5G NR-FDD n12(15MHz), -96.7 dBm 5G NR-FDD n13(10MHz), -97.6 dBm 5G NR-FDD n14(10MHz), -98.7 dBm 5G NR-FDD n18(15MHz), -98 dBm 5G NR-FDD n20(20MHz), -96.9 dBm 5G NR-FDD n25(20MHz), -94.6 dBm 5G NR-FDD n26(20MHz), -95 dBm 5G NR-FDD n28(20MHz), -96 dBm 5G NR-FDD n30(10MHz), -95.4 dBm 5G NR-TDD n38(20MHz), -93.4 dBm 5G NR-TDD n40(20MHz), -93.8 dBm 5G NR-TDD n41(100MHz), -85.8 dBm 5G NR-TDD n66(40MHz), -92.3 dBm 5G NR-TDD n71(20MHz), -96.5 dBm 5G NR-TDD n77(100MHz), -87.4 dBm 5G NR-TDD n78(100MHz), -87.8 dBm 5G NR-TDD n79(100MHz), -87.2 dBm
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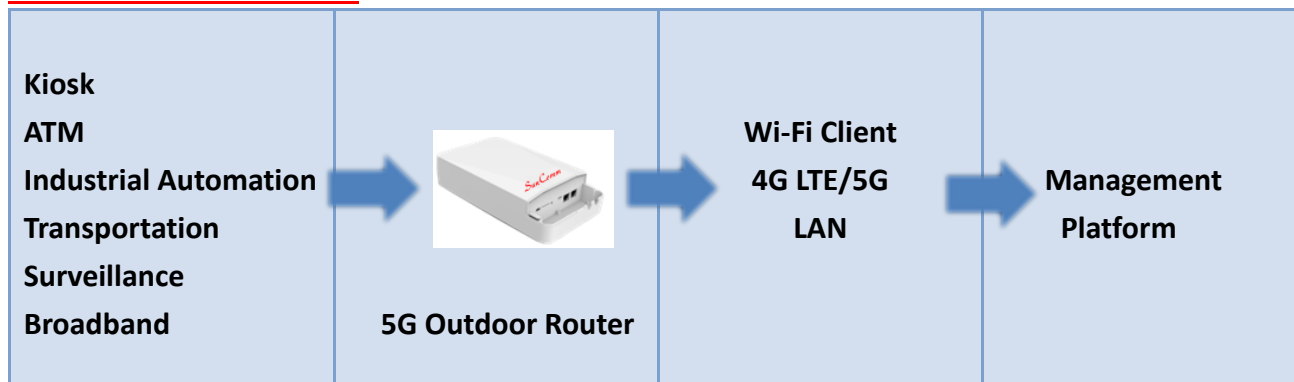
LTE-FDD B1(10MHz) , -97.3 dBm
LTE-FDD B2(10MHz) , -97.8 dBm
LTE-FDD B3(10MHz) , -97.6 dBm
LTE-FDD B4(10MHz) , -98.2 dBm
LTE-FDD B5(10MHz) , -100.3 dBm
LTE-FDD B7(10MHz) , -97.1 dBm
LTE-FDD B8(10MHz) , -99.7 dBm
LTE-FDD B12(10MHz) , -100.8 dBm
LTE-FDD B13(10MHz) , -98.7 dBm
LTE-FDD B14(10MHz) , -99.5 dBm
LTE-FDD B17(10MHz) , -100.3 dBm
LTE-FDD B18(10MHz) , -100.3 dBm
LTE-FDD B19(10MHz) , -100.3 dBm
LTE-FDD B20(10MHz) , -100.5 dBm
LTE-FDD B25(10MHz) , -97.7 dBm
LTE-FDD B26(10MHz) , -100.3 dBm
LTE-FDD B28(10MHz) , -99.7 dBm
LTE-FDD B29(10MHz) , -98.2 dBm
LTE-FDD B30(10MHz) , -97.3 dBm
LTE-FDD B32(10MHz) , -97.3 dBm
LTE-FDD B66(10MHz) , -98 dBm
LTE-FDD B71(10MHz) , -99.7 dBm
LTE-TDD B38(10MHz) , -95.7 dBm
LTE-TDD B39(10MHz) , -98.7 dBm
LTE-TDD B40(10MHz) , -96.6 dBm
LTE-TDD B41(10MHz) , -95.7 dBm
LTE-TDD B42(10MHz) , -96.8 dBm
LTE-TDD B43(10MHz) , -97.1 dBm
LTE-TDD B46(10MHz) , -96.2 dBm
LTE-TDD B48(10MHz) , -96.9 dBm

WCDMA B1 , -109 dBm
WCDMA B2 , -109 dBm
WCDMA B4 , -110 dBm
WCDMA B5 , -111 dBm
WCDMA B8 , -112dBm

3G/4G/5G Transmitting Power	<ul style="list-style-type: none"> ◆ 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	4 X 4G/5G internal antenna, 4 X 4 MIMO, with 50 Ω impedance.
SIM card feature	
SIM card	Supports 1 X SIM slots, 1.8V / 3V. Or 1 X eSIM card. (Optional)
GPS feature (Optional)	
GNSS features	<ul style="list-style-type: none"> ◆ Supports dual-band GNSS: L1 and L5 ◆ Supports GPS, GLONASS, BDS, Galileo and QZSS ◆ Protocol: NMEA 0183 ◆ Data update rate: 1 Hz
Hardware feature	
CPU	Qualcomm SDX62, ARM Cortex - A7,1.8GHz
MEMORY	NAND FLASH 4Gb, LPDDR4X 4Gb
Hardware interface	1* LAN 2.5G Ethernet port. 1*USB3.1 port
Watchdog	Built-in watchdog feature.
Key button	Reset
Protection level	Ethernet port , Contact electric shock, +/-4KV, air discharge: +/-8KV.
LED status indicator	PWR ,SYS, Net, LAN,WLAN
Standard Power	POE power supply input. DC 24V/1A
Power Supply	POE power supply input. DC +12/1.5A~36V/0.5A
Peak current	Max current. 2.5A @5V
Working current	Max 450 mA, 5.4W @5 V
Power Consumption	<p>Idle. 60mA, 1.44W @24 V</p> <p>Data link. Max 225 mA, 5.4W @24 V</p> <p>Peak. Max 360mA , 8.64W @24V</p>
Temperature	Operating Temperature, 30 °C ~+70°C, Storage Temperature -35 °C ~+75°C
Environment humidity	5%~95% ,no condensation.
Ingress Protection	IP65
Housing	ABS plastic material, white shell.

Dimensions	250mm * 145mm * 67.5mm
Installations	Wall or pole mounted.
Weight	576g
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, L2TP, IPSEC VPN, GRE, TCP, UDP, DHCP, HTTP, DDNS, TR-069, HTTPS, SSH etc. protocol.
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 or crash.
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.
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
Management platform	Remote Management Platform

TYPICAL APPLICATION:



Dimensions



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