

4G Industrial Dual SIM Single Standby LTE Terminals

FEATURES

- Supports 4G LTE connectivity, allowing for high-speed internet access.
- Supports various LTE-TDD and LTE-FDD bands, including B38, B39, B40, B41, B1, B3, B5, and B8. This ensures compatibility with different network frequencies.
- Supports Dual SIM single standby function
- GNSS (Global Navigation Satellite System) capability, which enables accurate positioning and navigation
- Allowing for wireless internet connectivity and the creation of a local network
- It is built to withstand harsh environments
- Optional version with WIFI hotspot or version with GNSS global positioning function



SPECIFICATIONS

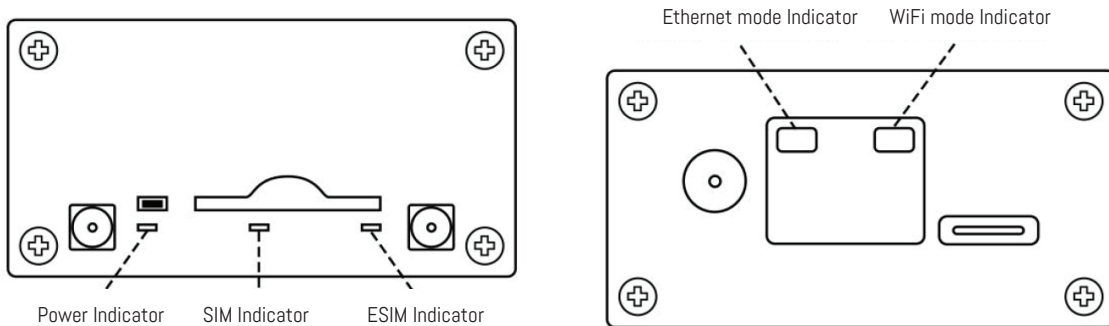
<i>Physical Characteristics</i>	
<i>Shell Dimension</i>	<i>W 70 (including fixed ears) x L60 x H25 mm (excluding protruding SMA antenna interface)</i>
<i>Weight</i>	<i>85 g</i>
<i>Shell Material</i>	<i>Aluminum alloy</i>
<i>Built-in 4G module</i>	<i>SIMCOM® A760X series , support AT command Standard</i>
<i>SOC master control</i>	<i>ASR1803</i>
<i>Power supply voltage</i>	<i>DC 5-16V (The input voltage cannot be lower than 5V and not higher than 16V.)</i>
<i>Working current</i>	<i>2A</i>
<i>Power interface</i>	<i>Supports dual interfaces (USB-C and DC power input port) and different voltages for simultaneous power supply, which can be used as a backup power supply function.</i>
<i>Dual SIM single standby</i>	<i>Dual-SIM single standby function can set up dual-network backup: when one SIM card cannot access the Internet, it can automatically switch to the second one.</i>
<i>Wired communication</i>	<i>Supports USB-C interface and Ethernet interface to access the Internet at the same time. USB-C is RNDIS virtual Ethernet card mode.</i>
<i>Wireless communication</i>	<i>Optional support for WIFI hotspot communication, WIFI4 protocol, 2.4Ghz single frequency, up to 8 users.</i>
<i>4G frequency band</i>	<i>FDD: B1/B3/B5/B8; TDD: B38/B39/B40/B41</i>
<i>Other functions</i>	<i>Built-in WEB management function, you can set APN, SIM card switching, automatic restart and other functions.</i>

PRODUCT INTERFACE AND FUNCTION DESCRIPTION

- 1 standard RJ45 network port, 10/100Mbps adaptive, with LED indicator
- 1 DC power socket with hole diameter 2.1/2.5mm, supports DC 5-16V@2A input
- 1 USB-C interface, supports USB2.0 communication function and local power supply function
- 2 SMA antenna interfaces with external screws and internal holes, supporting 4G main set and 4G diversity
- 4G diversity antenna position SMA optional GNSS positioning antenna or WIFI hotspot antenna
- 1 NANO SIM card slot, supports NANO SIM card
- 1 built-in ESIM card function
- 1 hidden button, supports SIM card switching and RESET functions
- 1 power light, 2 ESIM/SIM status lights, 1 Ethernet light, 1 WIFI light

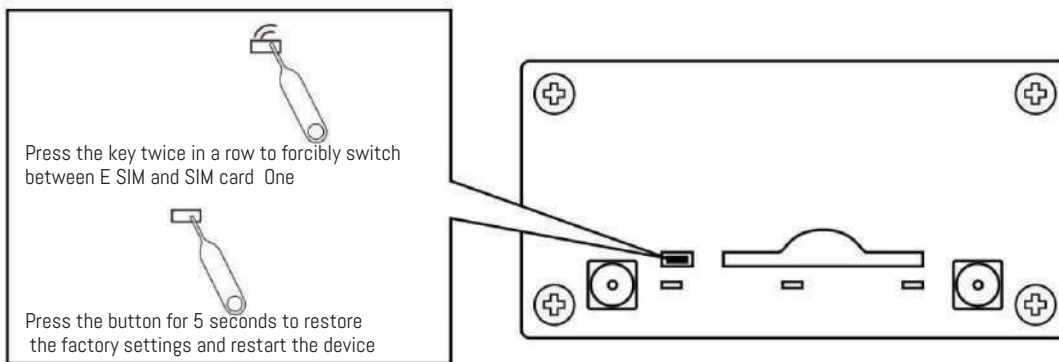
INSTRUCTIONS

INDICATOR LED DESCRIPTION



- **Power LED indicator:**
the light on indicates that the whole machine has power supply, and the power supply is connected;
The light off indicates that the power supply is abnormal.
- **ESIM card and SIM card indicator light:**
ESIM card lights on means to use built-in E SIM card to surf the Internet;
SIM card lights on means to use NANO SIM card slot SIM card.
The flashing LED light indicates that the dial-up is successfully connected to the Internet,
and the constant light indicates that the dial-up is not connected to the Internet.
- If the left light of RJ45 Ethernet is on or flickering, it means that the communication between Ethernet and other terminals is normal,
and if the light is turned off, it means there is no connection.
- RJ45 the right light of Ethernet is on or flickering, which means the WIFI hotspot is started and the communication is normal, and the light is off without WIFI

KEY DESCRIPTION



- **Inserting the Key:**
To insert the key, gently use a card-taking needle or another slender, pointed object to engage the keyhole. Ensure that the button is activated before proceeding.
- **Switching Between ESIM and SIM Cards:** Press the key twice consecutively to switch between the ESIM card and the SIM card. Please note that during this switching process, the key will not respond for approximately 15 seconds.
- **Factory Reset:** For a long press, hold down the key for 5 seconds. This action will reset the equipment to its original factory settings, and the device will restart.

GNSS POSITIONING FUNCTION DESCRIPTION

The GNSS global positioning function is exclusively available in the quick positioning version. In this version, the SMA interface of the 4G diversity antenna has been modified to accommodate the GNSS positioning antenna interface. This interface supports both active and passive antennas. For optimal functionality, we recommend using an active ceramic antenna and ensuring that the antenna faces the sky. Please note that GNSS positioning is ineffective indoors. Additionally, the system supports NMEA-0183 standard format output, LBS base station-assisted positioning, and facilitates secondary development.

WIFI HOTSPOT FUNCTION DESCRIPTION

The WIFI hotspot function is only available in the regular version, and the SMA interface of the 4G diversity antenna is changed to a WIFI antenna interface. Supports 2.4GHz single-frequency WIFI4 protocol, and the maximum number of WIFI wireless user connections is 8 at the same time.

The default WIFI name is: 4G CPE X9--****

The default WIFI password is: 1234567890

You can log in to the WEB page to modify the default WIFI settings, and you can set the SSID to prohibit broadcasting (hide WIFI signals).

BUILT-IN ESIM CARD INSTRUCTIONS

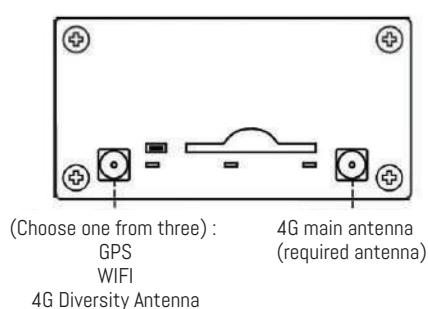
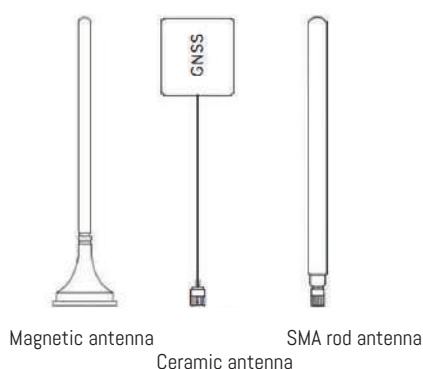
- Built-in ESIM Card for IoT: The embedded ESIM card serves as a dedicated SIM card specifically designed for Internet of Things (IoT) applications. Depending on the production batch, the selected operator may vary. To inquire about the management traffic package, you can conveniently scan the QR code located on the device's sticker. Alternatively, you can log in to the WEB page directly to view the traffic details associated with your local ESIM card.
- Restrictions on Chinese ESIM Card: Due to policy and regulatory considerations, the default built-in Chinese ESIM card (for the Chinese version) cannot access certain internet content, including platforms like WeChat, QQ, Taobao, and TikTok. If you require internet access for personal use, I recommend consulting our customer service team to replace your current ESIM card with a personal real-name proprietary ESIM card.
- Global Roaming Services with Overseas ESIM Card: For international customers, our company offers a cloud-based ESIM card integrated into the overseas version. This card provides global roaming services. To access detailed instructions or learn more about this feature, simply scan the QR code on the device or reach out to your account manager.
- Customized ESIM Card Support: Additionally, our product supports customized ESIM cards supplied by customers. These cards adhere to a specification of 5*6mm and can be either consumer-grade or industrial-grade.

WEB MANAGEMENT LOGIN PAGE

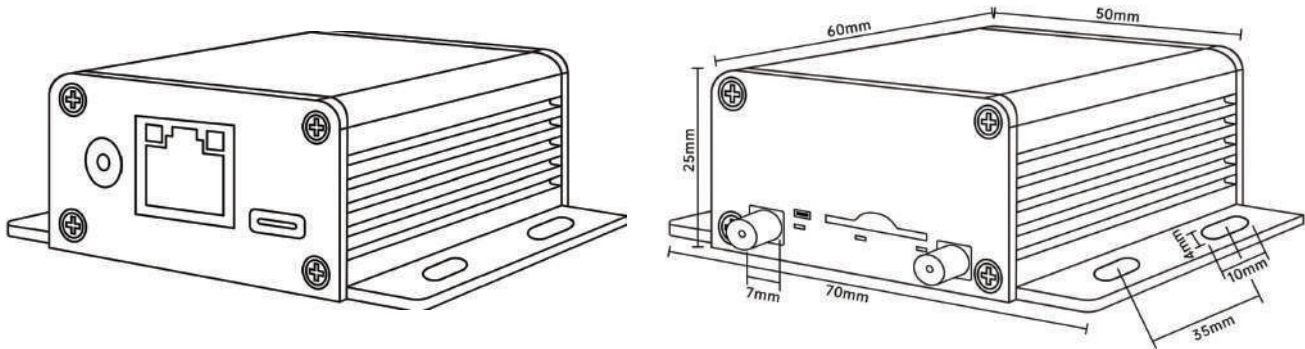
- Default login IP is: 192.168.0.1
The built-in WEB page is different depending on the batch.
- WEB page that requires login name and password:
Default login name: admin
Default login password: admin (no spaces, all lowercase)
As long as you log in to the WEB page with a password, the default login password is: 12345678

ANTENNA AND INTERFACE DESCRIPTION

- Antenna Interfaces: The antenna interfaces on this terminal are all SMA interfaces (external screw and internal hole). For specific definitions, please refer to the silk screen located near the antenna.
- Antenna Feeder Length: It is advisable not to exceed a 1-meter length for the antenna feeder. Longer feeders result in greater signal loss.
- Main 4G Antenna and Diversity Antenna: In conventional applications primarily focused on data uplink, only one 4G main antenna is necessary. The 4G diversity antenna need not be used. However, for applications emphasizing data downlink, installing a 4G diversity antenna is recommended. In China, due to base station overload from the three 4G operators, overall downlink network speed has slowed down. Whether adding the 4G diversity antenna improves the experience is not immediately evident.
- Dual-Antenna Version: This series features a dual-antenna version with one 4G main antenna and one 4G diversity antenna. The 4G diversity antenna is located in the SMA interface. Additionally, there's an optional GNSS positioning antenna or WIFI hotspot antenna.
- Satellite Positioning (GNSS): Our product supports satellite positioning (GNSS). The positioning function antenna is an active antenna interface, compatible with both active and passive antennas. For optimal reception, consider selecting a ceramic active antenna.
- Placement Considerations for 4G/5G Antennas: When using 4G or 5G antennas, avoid placing them in fully metal-enclosed environments. Doing so may result in suboptimal signal quality or no signal at all. For GNSS positioning, ensure the antenna is outdoors, with at least one side facing the sky. GNSS reception is ineffective in indoor environments.



PRODUCT SPECIFIC DIMENSIONS

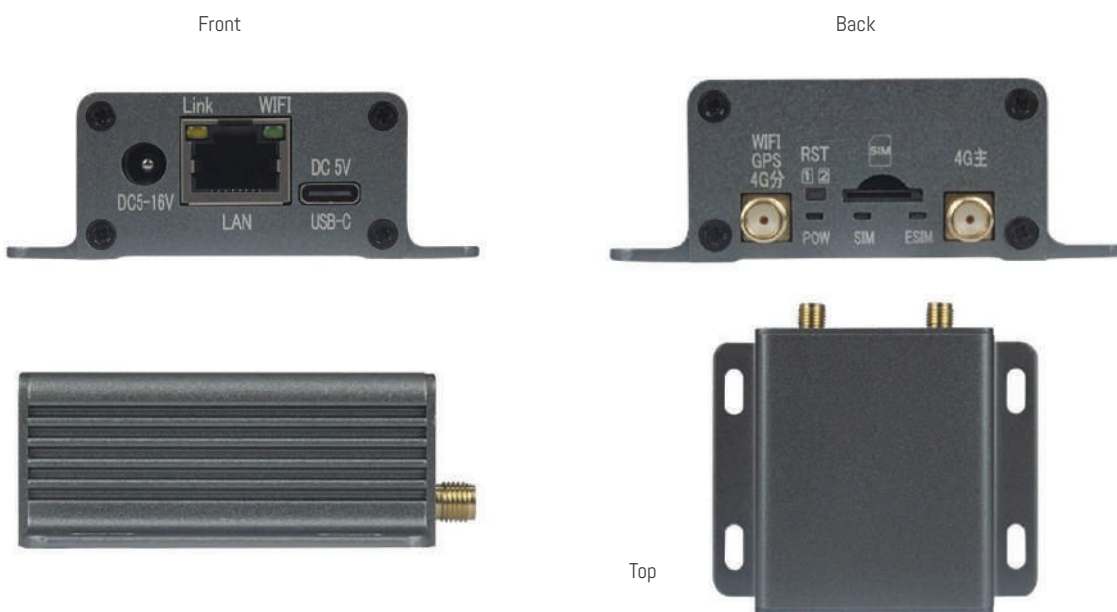


- Exceeding the rated voltage input will damage the device, and unstable power input will affect the terminal's working stability.
- Long-term use in harsh environments exceeding extreme temperatures and humidity may affect the product's working stability and lifespan.
- Do not use this device near medical equipment marked as sensitive to electromagnetic radio frequency and other places marked as sensitive to radio frequency.

PRODUCT ACCESSORIES

- The complete set of products is:
A 4G industrial LTE Router 85g (excluding antenna and any other accessories), default antenna 8g (one express version, two regular version), USB-C data cable 24g, specifications and instructions. (The weight of the entire set of products plus packaging is approximately 170g);
- Optional accessories: 4G suction cup antenna 27g (needs to be purchased separately), WIFI suction cup antenna 28g (needs to be purchased separately).
- The official standard configuration of all versions **does not** include power adapter, SMA antenna, SIM card, etc. Some versions come standard with SMA rod antenna.
- All versions are officially equipped with a USB data cable as standard, supporting power supply and data communication functions.

PRODUCT GALLERY



ORDERING INFORMATION

P/N	Descriptions
LSLTE-ES-W	4G industrial LTE Router with WIFI hotspot
LSLTE-ES-G	4G industrial LTE Router with GNSS global positioning function