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STARLINK
SYS X1271 4G
Wireless Data
Terminal

Starlink SYS X1271 4G Wireless Data Terminal User Manual

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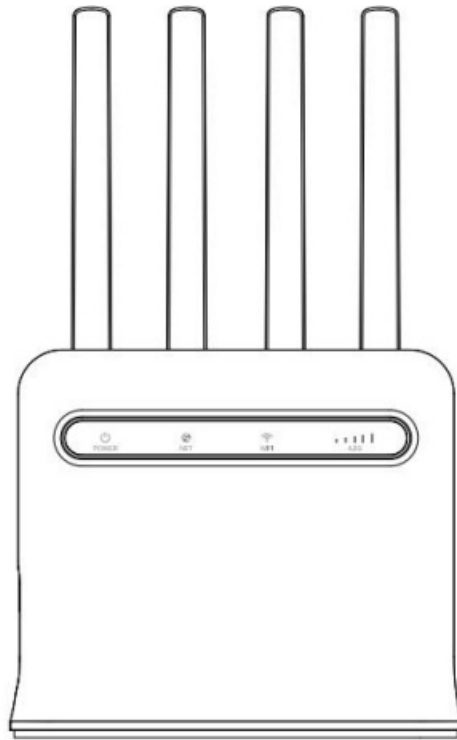
STARLINK

Starlink SYS X1271 4G Wireless Data Terminal

Specifications

- **Model**: X1271
- 4G Wireless Data Terminal CAT12 cloud card solution

Product Information

Product Appearance
The product features ports for SIM, WAN/LAN, LAN, DC power, and external antennas. It has a reset key, power button, and WPS keys.

Light Position Description

Name	Status	Description
POW Light	Green Light Off/On	Indicates device power status
NET Light	Green Light Off/On	Indicates data connection status
SMS/WPS Light	Green Light Off/On/Flashing slowly	Indicates wireless connection and WPS button status
4.5G Light	Green light flashing fast (0.1s: 0.1s=On: Off)	Indicates 4.5G network status

Product Usage Instructions

Equipment Quick Installation Guide

- **Overall Diagram of Equipment Networking:** Refer to the diagram for setup.
- **Operating Environment Requirements:**

- **Operating temperature**: 0°C to 55°C
- **Storage temperature**: -20°C to 85°C
- **Operating humidity**: 5% to 95% (No condensation)

Equipment Management

Connect and Log in to the Device Management
Page: Follow the steps provided to access the management page.

Introduction to Basic Functions

- **System Status**

  The system interface displays all device status information.
- **Network Settings: Internet Settings**

  Set Internet access policy, connection mode, hostname, MTU, DNS settings, APN, authentication mode, user
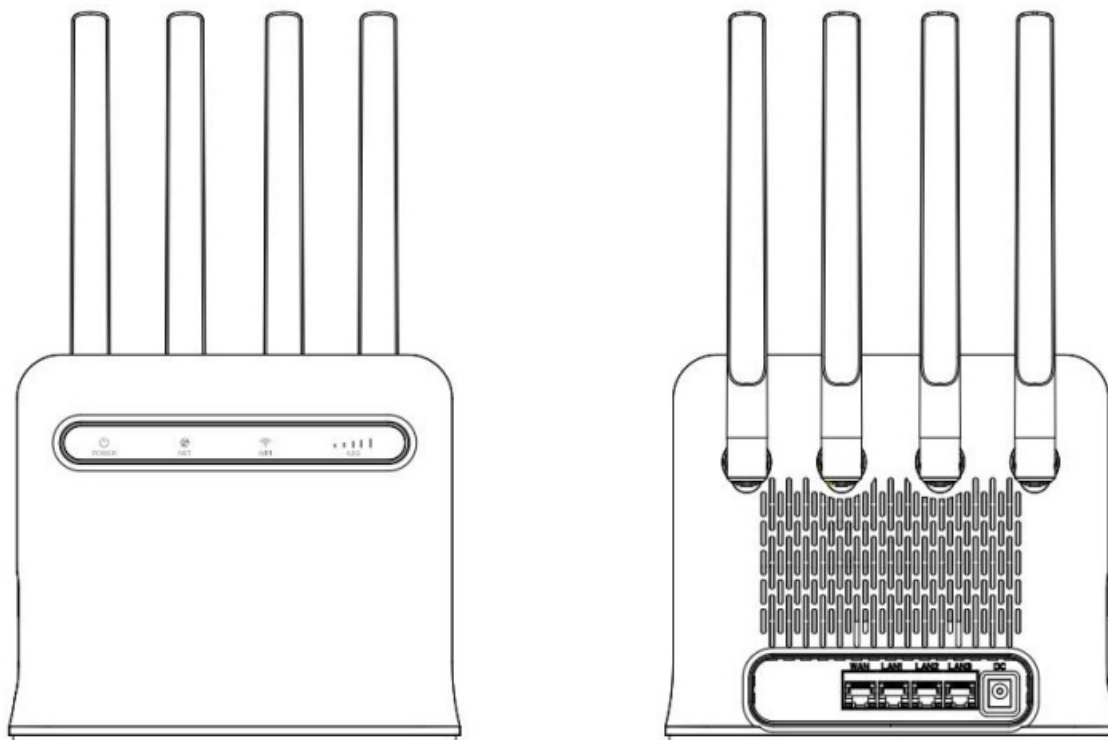
  name, password, PIN code.

Product Manual Overview

This is a CPE of 4G Wireless Data Terminal C AT12 cloud card solution.

Use r Book Graphic Instructions

Graphic Format	Description
< >	The button that represents the page.
""	Represents information such as name or password.

Description of Product Appearance Information

Product Appearance

Port Description

Figure 2-1 description of the port

| Name	Instructions
RST	Reset key (hold down for 8 seconds to restore the system to factory Settings)
POW	Power button
WPS	WPS keys

SIM	1 * SIM slot/press type
WAN/LAN	1 * WAN port (switchable LAN port)
LAN	3 * LAN port
DC	1 * Power interface (12V/2A)
External antenna	4 * CAT12 4G antenna interface

Light Position Description

Name	Status		Description
POW Light	Green Light Off		The device not powered on
	Green Light On		Device powered on
NET Light	Green Light Off		No data connection
	Green Light On		Data connection
SMS/WPS Light	Off Green Light		Wireless Off
	Green Light On		Wireless On
	Green Light flashing slowly 1s 1s=On Off 2MIN		WPS button pressed

4.5G Light		RSRP (dBm)					
		<-115	[-115,-110)	[-110,-105)	[-105,-95)	[-95,-85)	>=-85
SINR (dB)	<-3	0	1	1	1	1	1
	[-3,1)	0	1	1	2	2	2
	[1, 4, 6)	0	1	2	3	3	3
	[7, 9, 13)	0	1	2	3	4	4
	>=13dB	0	1	2	3	4	5

Button reset	Press the reset button for 5S, and 4.5G lights 1, 2, 3, 4, and 5 will be on simultaneously Green light flashing fast (0.1s: 0.1s=On: Off

Equipment Quick Installation Guide
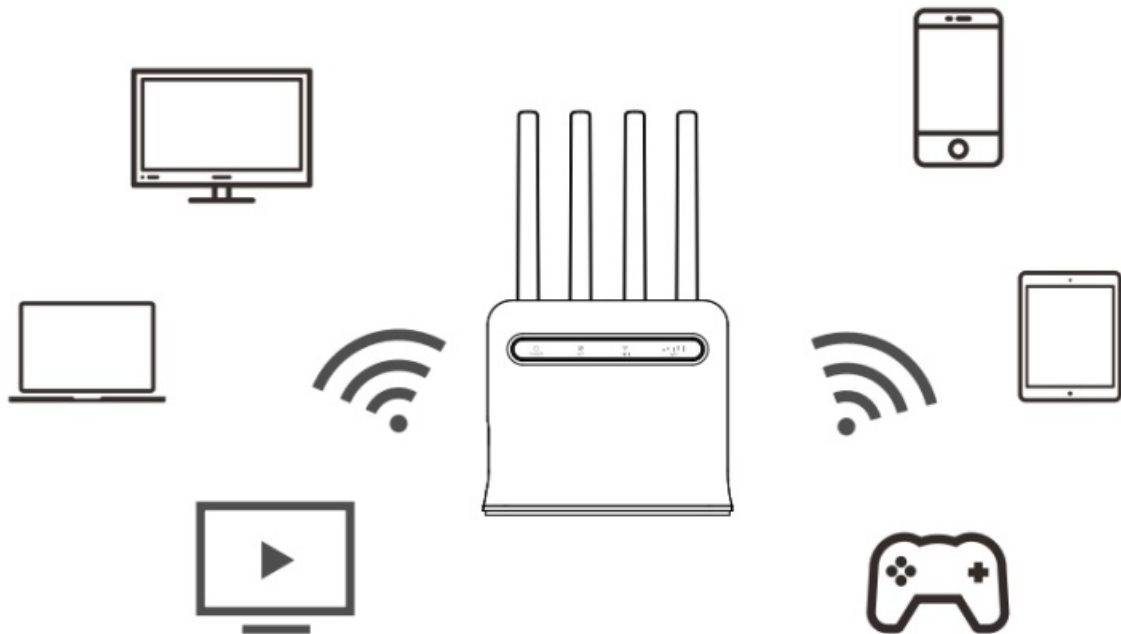
Overall Diagram of Equipment Networking

Operating Environment Requirements

Operating temperature	0 ℃ ~ 55 ℃
Storage temperature	– 20 ℃ ~ 85 ℃
Operating humidity	5% to 95% (No condensation)

Equipment Management

Note:
The following operations are performed without accessing the external network. If the device is already connected to an external network, remove the external network cable and follow the steps below .

Connect and Log in to the Device Management Page

1. Use a network cable to connect the device's LAN port and the computer's network port separately .
2. After waiting for more than ten seconds, the computer will automatically obtains the address.
3. Open the browser page, enter the gateway address of the device "192.168.1.1" in the address bar of the browser page (the gateway address of the device is marked on the label on the back of the device, the default address is 192.168.1.1) to jump to the p age.
4. After successful page jump, the login interface of the device will be displayed, please enter the password "admin" in the page according to the prompt (the password is marked on the label on the back of the device, the initial password is admin by defau lt), and then click < Login > button.
5. After successfully logging in to the device management interface, you can view the basic information of the device and man age the operation of the device.

Administrator Login
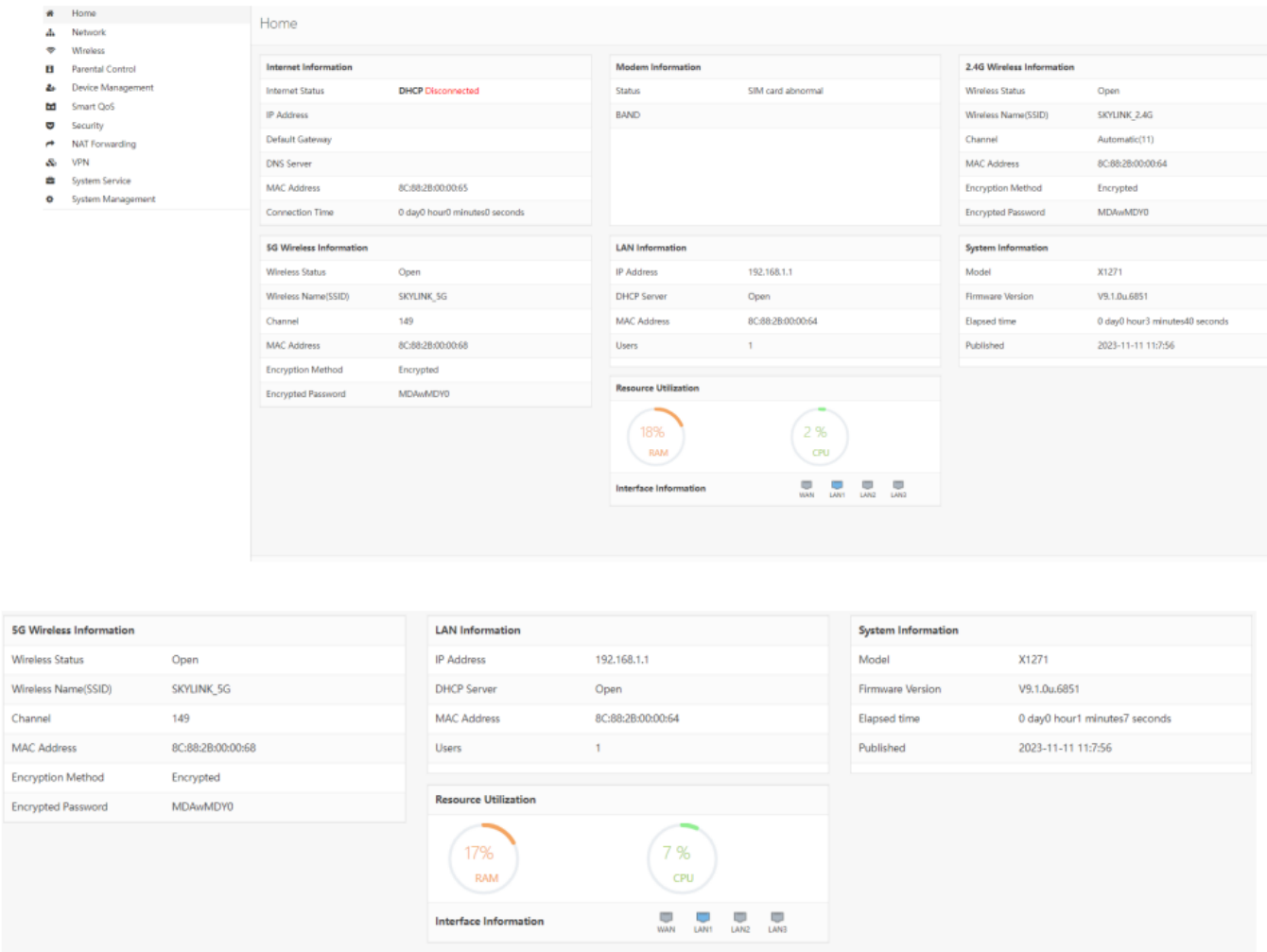
Please enter login password

Forgot password?

Login

Introduction to Basic Functions

System Status

The system interface can intuitively display all the current status information of the device, and the unique module popup in terface can clearly and accurately display more setting information.

- System information: Automatically displays the operating days and the current software version and model;

- LAN information: Displays the address of the LAN port and the number of users;

- Resource usage information: Displays CPU and M emory usage status , and interface information;

- 2.4G/5G wireless information: Display 2.4G/5G wireless status and name, password, channel;

- Modem information: Display APN connection status and signal strength;

- Routing information: Displays rout e status, number of static and policy rout e connections.

Network Settings

1. **Internet Settings**

   Can be used to set Internet access policy, connection mode, host name, MTU, DNS settings, APN, authentication mode, user name , password, PIN code.

2. **LAN Settings**

   Can be used to set the LAN port IP address and DHCP address

3. USSD

To obtain USSD service information, please check whether the operator supports it when using the service and press the cancel button at the end of the service.

4. SMS Service

You can send emails to others and record the contents of sending and receiving

5. **DDNS Settings**

This mode is turned off by default, and when turned on, provides a valid, unchanging Internet domain name (URL address) to match a (likely ever-changing) IP address.

Wireless Settings

1. **Basic Settings**

In this mode, the basic information of a 2.4G/5G wireless network can be set (for example Wireless N ame, Password, Frequency B and, B and width, Channel, Country/Region).

Wireless > Basic

This page is used to set the basic parameters of the wireless network.

○ 2.4GHz Wireless   ○ 5GHz Wireless

Wireless Status	Open
Wireless Name(SSID)	SKYLINK_2.4G
Hide SSID	☐
Encryption	☑
Wireless Password	Getlinked
Band	2.4 GHz (B+G+N) ▾
Country/Zone	USA ▾
Bandwidth	40MHz ▾
Channel	Automatic ▾

This page is used to set the basic parameters of the wireless network.

○ 2.4GHz Wireless   ● 5GHz Wireless

Wireless Status	Open
Wireless Name(SSID)	SKYLINK_5G
Hide SSID	☐
Encryption	☑
Wireless Password	Getlinked
Band	802.11A/N/AC ▾
Country/Zone	USA ▾
Bandwidth	80MHz ▾
Channel	149 ▾

2. **Guest Network**

This mode is off by default, but when it is on , you can set up the 2.4G/5G wireless network separately. With the guest network function, users can set up an independent Internet environment for guest s, which uses a separate Internet key This not only prevents the leakage of the user's own Internet key, but also prevents the leakage of user data information, thus further ensuring the security of the home network

Wireless > Guest Network

The guest network is a virtual network. Through the guest network function, users can establish an independent Internet environment for guests, which uses a separate Internet key, which can not only avoid the leakage of the user's own Internet key, but also prevent the leakage of user data information, thereby further ensuring the security of the home network.

○ 2.4GHz Wireless   ● 5GHz Wireless

Wireless Status   Open

Wireless Name(SSID)   SKYLINK_5G_GUEST

Hide SSID   ☐

Encryption   ☐

Allow guests to access my local network   ☐

Parental Control
This mode is off by default, and when it is on, it help s you to limit your child's online time by not being able to access the Internet outside of the set allowable online time.

Parental Control

Parental controls can help you limit the amount of time your child spends online and not be able to access the internet outside of the set allowed time period.

Radio   Open

Current parental control list (Maximum:32)

ID ☐	MAC Address	Internet schedule	Description	Operation
	Scan	☐Monday ☐Tuesday ☐Wednesday ☐Thursday ☐Friday ☐Saturday ☐Sunday ☐ Every 00 ▾ : 00 ▾ - 00 ▾ : 00 ▾	Description	Add

Device Management
This function is turned off by default and can be used to set up static DHCP services when enabled.

Smart QoS

This function is turned off by defaul t, when it is on, you can intelligently speed limit rules in the list. Supports Quality of Service (and intelligent QoS bandwidth management based on services and IP network segments.

Security Settings

1. **IP/Port Filtering**

    This function is turned off by default, when it is on, you can set up IP/Oort filtering, it is used to restrict LAN users from accessing the Internet.

2. **MAC Filtering**

    This function is turned off by default, when it is on, it is used to restrict access to the Internet by certain users on the LAN. The MACs in the list will be prohibited from accessing the Internet through the gateway when the function is enabled, and the rules in the list will not take effect when the function is disabled.

3. **URL Filtering**

   This function is disabled by default, when it is on, it is used to restrict LAN users from accessing the Internet. Enabling this feature will prohibit the domains in the list from being accessed by users. The rules of the list do not take effect when this feature is disabled.

NAT Forwarding

1. **Port Forwarding**

   This function is turned off by default, but when it is turned on, port forwarding is set up to provide services over the Internet .

2. **DMZ**

   This function is turned off by default, but when it is turned on, it protects you from direct exposure to external networks and attacks.

NAT Forwarding > DMZ

When some hosts need to provide some application services, such as Web, Mail, FTP, etc., in order to better provide services, and at the same time effectively protect the security of the internal network.

Radio   Open

Host IP   [   ]

                         ☐ The IP of the computer currently connected is192.168.1.225

Apply

3. **VPN Penetration**

Used to set up VPN penetration service functions.

NAT Forwarding > VPN Passthrough

This page is used to set up the VPN traversal service feature.

Allow PING from WAN   Close

L2TP penetration   Open

PPTP penetration   Open

IPSec penetration   Open

Apply

System Services

1. **Remote Management**

Used to set up the remote management function of the system, turned off by default.

System Service > Remote

This page is used to set up the remote management capabilities of the system.

Radio   Open

Port   1024
                         (80~65535)

Apply

2. **SNMP**

Used to set up the SNMP service, turned off by default.

System Administration

1. **Changing the Administrator Password**

- **Old password**: The default password of the device is "admin", which is marked on the label on the back of the device. The password can be changed to a maximum of 32 characters (that is, 32 bit English characters, digits, and special characters).
- **New password**: The password can be changed to a maximum of 32 characters (that is, 32 bit English characters, digits, and special characters).
- **Confirm password**: Enter the new password once to confirm the success.

2. **Time Settings**

- **Select time zone:** 24 time zone options are supported from 12 to +12, and users can set the time according to the local time.

- **Automatically synchronize NTP time:** After this option is selected, the device automatically synchronizes time based on the NTP server address. If this option is not selected, the device automatically starts time based on the current time. It is generally not recommended to deselect this option.
- **NTP server:** The IP addresses of the three servers are automatically updated at the same time and it is generally not recommended to change them

3. **Scheduled Restart**

   Used to restart the device. Tap Restart to restart the device.

4. Firmware Upgrade

- **Firmware version**: Automatically displays the current version number. When the device is connected to the network, click the < Detect New Version > button, and the device will automatically detect if there is a new version that can be upgraded. If ther e is a new version, th e page prompts if there is a new version and whether it needs to be upgraded, and a < Upgrade > button appears.
- **Do not retain the configuration**: This function is used with the firmware upgrade function. If this function is selected, the original configuration of the device will be cleared after the firmware upgrade is successful.
- **Select file**: Support page to manually upgrade the firmware, the user can choose the different version of firmware with the device to upgrade by themselves

5. System Configuration

- **Backup configuration file:** Automatically saves the configuration of the current device into a file, which is convenient for later restoration to factory defaults.
- **Restore configuration file:** Select the saved configuration file or another configuration file to update. After the device is restarted, the device configuration automatically changes to the configuration status of the updated configuration file.
- **Reset system configuration:** Click the < Restore > button, and the device automatically clears all settings and restores to the original factory state.

6. **Ping Diagnostics**

Simply enter the address you want to ping and the number of bars you want to ping, and tap apply to perform ping diagnostics.

7. **Route Tracing:** Simply enter the address to be traced and the number of entries to be traced and click "Execute" to route the trace

System Management > Traceroute

This page is for traceroute.

Tracking Address

Number of traces

(1~60)

Execute   Clear

8. **System Logs**

This function is turned off by default and displays system logs when enabled.

System Management > System Log

This page is used to display system logs.

Radio   Open

Clear   Refresh

Sep 11 14:20:41 kernel: [24.912000] mt7603_set_ed_cca: TURN OFF EDCCA mac 0x10618 = 0x8564267c, EDCCA_Status=0
Sep 11 14:20:41 kernel: [24.920000] WiFi Startup Cost (ra0): 9.896s
Sep 11 14:20:41 kernel: [24.924000] device ra0 entered promiscuous mode
Sep 11 14:20:42 kernel: [25.956000] br0: port 3(ra0) entered forwarding state
Sep 11 14:20:42 kernel: [25.960000] br0: port 3(ra0) entered forwarding state
Sep 11 14:20:42 kernel: [25.964000] br0: port 2(rai0) entered forwarding state
Sep 11 14:20:42 kernel: [25.972000] br0: port 2(rai0) entered forwarding state
Sep 11 14:20:42 kernel: [25.976000] br0: port 1(eth2) entered forwarding state
Sep 11 14:20:42 kernel: [25.980000] br0: port 1(eth2) entered forwarding state
Sep 11 14:20:42 kernel: [26.048000] Ebtables v2.0 registered

9. **Exit**

Log out of the device background login.

Are you sure you want to quit?

Cancel   OK

Specifications

Chip configuration	Flash/RAM	Flash: 16MByter RAM: 128MByte
Machine port	Keys	1*Reset button, 1*WPS button, 1* Power button
	Module interface	M.2 (Standard M.2 base; Compatible with USB3.0 and 8111H Phy)
	SIM card holder	CAT12: Virtual cloud card + pluggable SIM (add SIM switch)
	Network Port	1 adaptive 10/100/1000Mbps WAN port (switchable LAN port) 3 adaptive 10/100/1000Mbps LAN ports
	Antenna	CAT 12 external antenna *4, WIFI antenna built-in (onboard) *2
	Power Supply	1*DC 12V/2A
Light bits	Light position	1*POW, 1*NET, 1*WIFI, 1*WAN, 1*LAN, 3*4.5G SIGNAL
Work environment	Operating temperature	0°C ~ 55°C
	Operating humidity	5% to 95% (no condensation)
	Storage temperature	-20°C ~ 85°C
Mechanical Properties	Mounting method	Desktop, stereo, etc.
	Size	186 * 159.3 * 49 mm
	Shell	Plastic case

FCC regulation

Warning: Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. this device must accept any interference received, including interference that may cause undesired operation.

MPE & SAR
FCC Radiation Exposure Statement
This equipment complied with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FAQ

Q: How do I reset the device to factory settings?
A: Press and hold the reset key for 8 seconds to restore the system to factory settings.

Documents / Resources

4G Wireless Data Terminal User Manual	**Starlink SYS X1271 4G Wireless Data Terminal** [pdf] User Manual X1271, 2BBUT-X1271, 2BBUTX1271, X1271 4G Wireless Data Terminal, X1271, 4G Wireless Data Terminal, Data Terminal, Terminal

References

- **User Manual**