

TCL LINKPORT IK511



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Read this first

- Before using this documentation and the device it supports, ensure you read and understand the “Important safety information” on page 14.
- Illustrations in this documentation might look different from your device.
- Instructions in this documentation may vary depending on your device model and software version.
- Some apps and features are not available in all countries or regions. App and feature availability is subject to change.
- Documentation content is subject to change without notice. We make constant improvements on the documentation of your device, including this user manual.
- TCL Communication Ltd. does not assume any liability that may occur due to the use or application of the product described herein. Every effort has been made in the preparation of this documentation to ensure accuracy of the contents, but all statements, information and recommendations in this documentation do not constitute the warranty of any kind, express or implied.

Chapter 1. Meet your TCL LINKPORT IK511

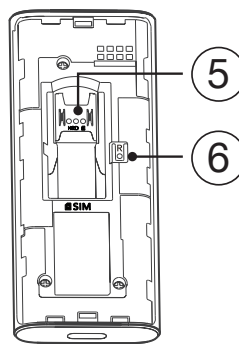
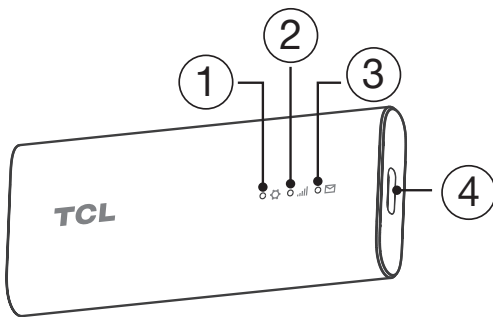
This TCL LINKPORT IK511 is a redcap TCL LINKPORT IK511. With its compact dimension and light weight, it can be used to provide internet access on-the-go, as well as at home.

1.1 System requirements

Supported operating systems: Linux Ubuntu v22.04, Windows (7, 8, 10, 11), macOS X (Catalina), Android (13, 14, S, R).

Supported browsers: Microsoft Edge, Chrome 60 and above, Firefox 58 and above, Safari 12 and above, Opera 50 and above.

1.2 Overview



- ① System LED indicator
- ② Signal LED indicator
- ③ SMS LED indicator
- ④ USB-C port

- ⑤ SIM card slot
- ⑥ Reset button

LED indicator:

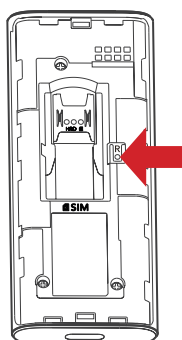
Indicator description	LED indicator status
Powering up	System LED indicator: Solid yellow
Error (e.g. SIM card is not recognized, or PIN, PUK or SIM lock protected)	System LED indicator: Solid red
Network searching	System LED indicator: Solid green Signal LED indicator: Flashing blue
Registered on 4G or 5G (but no EPS bearer established)	System LED indicator: Solid green Signal LED indicator: <ul style="list-style-type: none">• Solid green: Strong signal strength• Solid yellow: Acceptable signal strength• Solid red: Poor signal strength

Indicator description	LED indicator status
Connected on 4G or 5G	System LED indicator: Solid green Signal LED indicator: <ul style="list-style-type: none"> • Solid green: Strong signal strength • Solid yellow: Acceptable signal strength • Solid red: Poor signal strength
Firmware upgrading	System LED indicator: Flashing blue
Unread SMS	SMS LED indicator: Flashing green
SMS Inbox is full	SMS LED indicator: Solid green
No unread SMS and inbox is not full	SMS LED indicator: Off

Reset button

Use a paper clip or blunt pin to gently press and hold the reset button for 3 seconds to reset your TCL LINKPORT IK511.

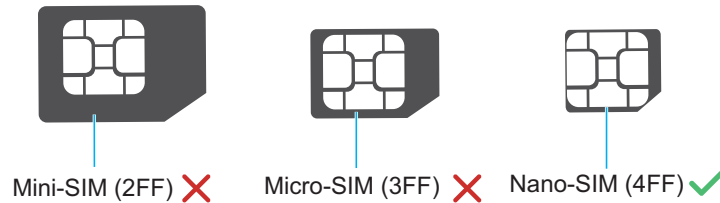
You can also reset the device via the Web UI (See “Restart & reset” on page 13).



Chapter 2. Get started with your TCL LINKPORT IK511

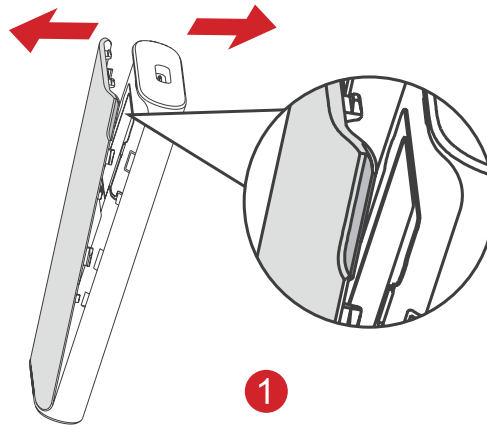
2.1 Insert a nano SIM card

Prerequisite: Select the right size of SIM card for your TCL LINKPORT IK511.



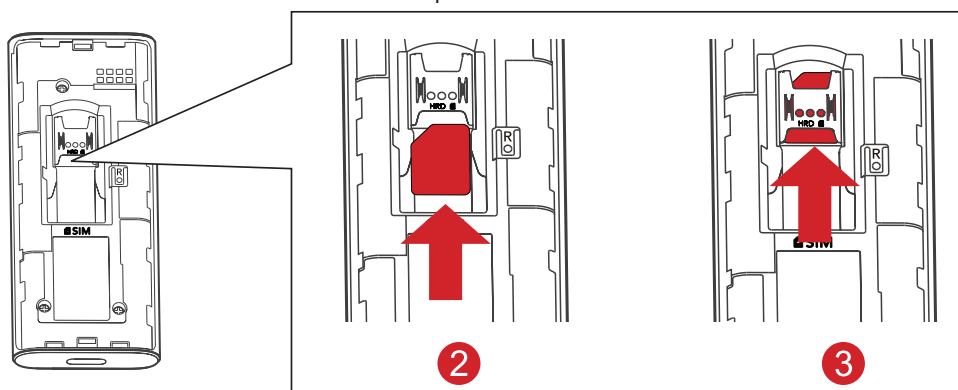
1. Open the back cover.

Hold the TCL LINKPORT IK511 in one hand and pull the back cover outwards from the slot using the index finger of your other hand.



2. Align the SIM card cutout tab as seen in the diagram and gently slide the card into the slot with the gold metal contacts facing down.

3. Make sure the Nano SIM card clicks into place. Put the back cover on.

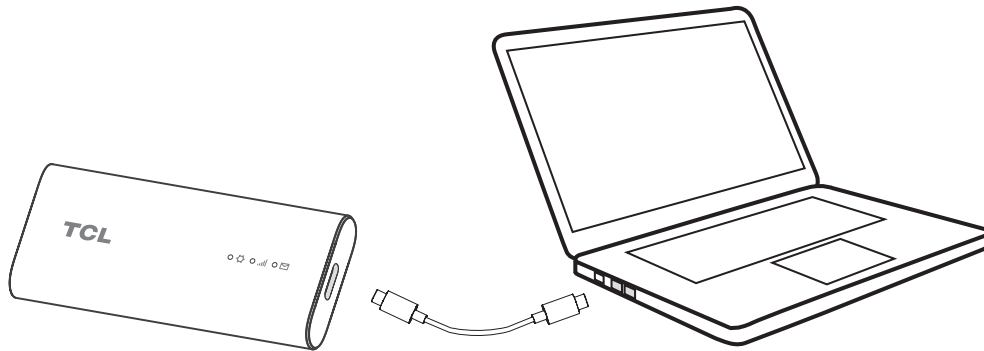


Notes:

- Note the orientation of the Nano SIM card. If the Nano SIM card is inserted incorrectly, it may get jammed.
- Do not remove the Nano SIM card when your TCL LINKPORT IK511 is in use. Otherwise, it may cause malfunction to your TCL LINKPORT IK511 or data loss of your SIM card.

2.2 Plug the TCL LINKPORT IK511 into your computer

Connect your TCL LINKPORT IK511 to a computer using the USB-C to USB-C cable included in the box.



Software will auto-install. Once installation is complete, your TCL LINKPORT IK511 is ready for use.

Chapter 3. Access the web UI

3.1 Log in to the web UI

To log in to the web UI, follow these steps:

1. Open a web browser on the device connected to the TCL LINKPORT IK511 network wiredly.
2. Go to the login website which can be found on the bottom label of your TCL LINKPORT IK511 and follow the on-screen instructions to finish the login process.

For the default login information, refer to the bottom label of your TCL LINKPORT IK511.

Notes:








- Click **Language** at the upper right of the screen to change the language setting.
- Click **Help** at the upper right of the screen to access user manual.

3.2 Explore web UI features

Home page features

The web UI is mainly comprised of the following sections: Home, Status, Services, Settings, and System. Click on each section to display more information about your TCL LINKPORT IK511.

Commonly-used status icons are displayed in the web UI, which give you information about your TCL LINKPORT IK511.

	It is the network your TCL LINKPORT IK511 connects to. No Service will be displayed when there is no network available.
	The number of the signal bar indicates the signal strength. The more signal bars it shows, the stronger the signal is.
	The TCL LINKPORT IK511 connects to WAN network.
	The TCL LINKPORT IK511 disconnects from WAN network.
	New messages or unread messages.
	The SMS inbox is full.
	Click to log out of the web UI.

Chapter 4. Configure your TCL LINKPORT IK511

In this chapter, we will show you how to get the most out of your TCL LINKPORT IK511 using the web UI.

In the web UI, you can configure Wi-Fi settings, view connected devices, set up a guest network, and more

4.1 Home

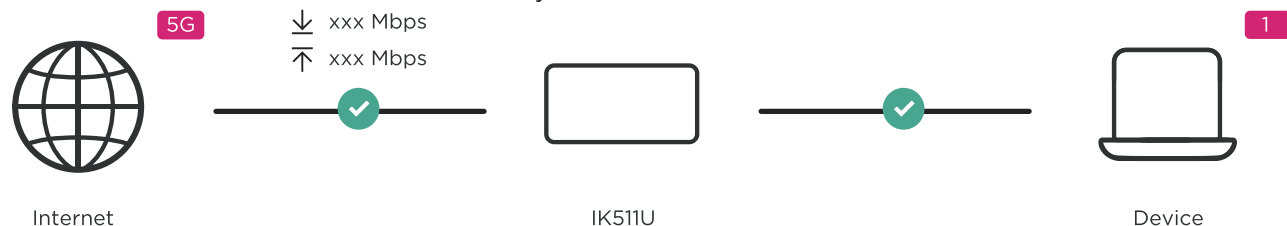
This section allows you to quickly check connection status, network information, device information, and connected devices.

4.1.1 Network overview

The network overview panel shows network connection status, download and upload speed, and the number of connected devices.

Click **Disable mobile data** to disconnect your TCL LINKPORT IK511 from the network.

Click **Enable mobile data** to connect your TCL LINKPORT IK511 to the network.



Network

The Network panel displays network name, network type, and network connection status. Click Network to access the internet setting page.

Device information

The Device information panel shows device model name, software version, and running time. Click Device information to get more information on your device.

Diagnostics

You can test network up-and-down and view the band.

4.2 Status

This section allows you to view your network information, connection status, device information, and more.

4.2.1 Internet

You can have a quick check on your device information, such as SIM status, Connection status, Network name, Network type, Profile name, and IP address.

4.2.2 Diagnostics

You can view the diagnostics data of the network, including Cell ID, RSRP, SINR and Band.

4.3 Services

Navigate to Services, and click the SMS tab to display the information you want or change SMS settings as desired.

Refer to the following table for the description of each folder under the SMS tab.

Inbox	Incoming messages are stored in this folder.
Outbox	Outgoing messages are stored in this folder.
Draft	Draft messages are stored in this folder.
New message	Write a new message in this folder.
SMS settings	Configure SMS settings in this folder.

Refer to the following table for commonly used operations of SMS messages.

Read a message	Click the message you want to read.
Send a message	<ol style="list-style-type: none">1. Click SMS > New message.2. Input the recipient's number and message content.3. Click Send. <p>NOTE: A message can be sent to up to five recipients simultaneously.</p>
Reply to a message	<ol style="list-style-type: none">1. Click the message you want to reply to.2. Click Reply.3. Input the message content, then click Send.
Delete a message	<ol style="list-style-type: none">1. Locate the message you want to delete in the Inbox or Outbox folder.2. Tick the checkbox beside the message you want to delete.3. Click Delete.
Delete all messages	<ol style="list-style-type: none">1. Click at the top of the checkbox column to select all messages.2. Click Delete.
Forward all messages	<ol style="list-style-type: none">1. Click SMS settings.2. Enable SMS forwarding to mobile phone.3. Input the recipient's number.4. Click Apply.
Enable SMS delivery reports	Click SMS settings , then enable SMS report .
Disable SMS delivery reports	Click SMS settings , then disable SMS report .

4.4 Settings

This section allows you to prioritize the network connection, configure connection mode, manage LAN and Wi-Fi settings, and more.

4.4.1 Quick setup

In this tab, you can configure network mode, enable or disable data roaming and internet profile name.

4.4.2 Mobile network

Network connection

In this option, you can configure and manage connection mode, enable or disable mobile data, and data roaming.

Profile management



In this option, you can set up a new APN profile, and edit or delete existing profiles.

Add a new profile	<ol style="list-style-type: none">1. Click New.2. Input the correct parameters (like profile name, APN and IP type) for your network operator.3. Click Save.
Edit a profile	<ol style="list-style-type: none">1. Select the profile from the profile management list.2. Click Edit to set the parameters.3. Click Save.
Delete a profile	<ol style="list-style-type: none">1. Select the profile from the profile management list.2. Click Delete. <p>NOTE: The default profile cannot be deleted.</p>
Set as default	<ol style="list-style-type: none">1. Select the profile from the profile management list.2. Click Set as default.

Mobile network settings

You can set the network search mode to either Auto or Manual. Ensure that you click Apply after making any changes.

SIM PIN management

Enable SIM PIN	<ol style="list-style-type: none">1. When the SIM PIN feature is disabled, click .2. Set a SIM PIN code.3. Click Apply.
Disable SIM PIN	<ol style="list-style-type: none">1. When the SIM PIN feature is enabled, click .2. Enter the current SIM PIN code.3. Click Apply.

Change SIM PIN	<ol style="list-style-type: none"> 1. When the SIM PIN feature is enabled, click Change SIM PIN. 2. Enter the previous and current SIM PIN. 3. Click Apply.
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Note: When the SIM PIN code is entered incorrectly 3 times, a PUK code is required. You can obtain the PUK code from your internet service provider.

4.4.3 Router

DHCP

Dynamic Host Configuration Protocol (DHCP) is a client or server protocol that automatically provides you with an Internet Protocol (IP) host. The IP address and related configuration settings such as subnet mask and default gateway address are all automatically assigned.

- DHCP Server: DHCP Server will automatically assign IP addresses to devices on the network. The default setting is enable.
- Gateway address: It is the router's IP address on the LAN. The default setting is "192.168.0.1".
- Subnet mask: The router's internal LAN subnet mask. The default setting is "255.255.255.0".
- Start IP address: Set the start IP address available to access.
- End IP address: Set the end IP address available to access.
- DHCP Lease Time: Amount of time that a Wi-Fi enabled device can use its assigned IP address before it is required to renew the lease.

DDNS

WAN IP address is needed when some functions of your TCL LINKPORT IK511 are enabled. If the WAN IP address of your TCL LINKPORT IK511 changes, these functions may not work properly. The Dynamic Domain Name Server (DDNS) function allows you to map a dynamic WAN IP address (public IP address) to a static domain name, helping internet users (WAN side) access the TCL LINKPORT IK511 network by static domain name.

DHCP Reservation

Reserve IP addresses for Specified clients connecting to this device.

Click + to create a new DHCP Reservation rule, and specify the MAC address and IP address allows to access the network. A maximum of 32 rules can be created.

VPN

Virtual Private Network (VPN) is a dedicated network across the shared or public network (usually the internet). The VPN technology allows employees at a branch of an enterprise and employees at the headquarters to exchange resources conveniently without exposing these resources to other internet users.

VPN passthrough

A VPN allows you to create a secure link between private networks through the internet.

You can choose the different protocols that you can use when setting up a VPN, such as IPSec Passthrough, PPTP Passthrough and L2TP Passthrough.

IP passthrough

IP Passthrough enables a client on the LAN to acquire the router's IP address assigned from

an ISP. When IP passthrough is enabled, the router bridges all traffic to the device connected to it.

4.4.4 Firewall

IP filter

By default, any device connected to your TCL LINKPORT IK511 is allowed to access the internet.

You can use the IP filter to allow or block specific devices from accessing IP addresses on the internet.

Create a Blocklist rule for IP addresses you do not want a device to access. If you enable it, then only IP addresses that match the rules will be accessible, all other addresses will be blocked.

A maximum of 32 rules can be created.

Port forwarding

Port forwarding allows external users to connect to services inside the local network (LAN).

Click + to create a new Port forwarding rule, and specify the LAN IP address, LAN ports, WAN ports and Protocol type for traffic to be forwarded.

4.5 System

4.5.1 Device information

You can view the info of your device here such as device name, model name, IMEI, your number, software version and hardware version.

4.5.2 Login password

Enter your current password and confirm a new password. Your chosen password must be between 4-16 characters long.

The default password can be found on the label located on the underside of the TCL LINKPORT IK511.

4.5.3 System time

Time zone: Change the local time zone here.

Current date and time: This will show your current time according to the selected time zone.

4.5.4 TR-069

It is a protocol for communication between TCL LINKPORT IK511 and an Auto Configuration Server (ACS) that provides secure auto-configuration as well as other TCL LINKPORT IK511 management functions within a common framework.

4.5.5 Backup & restore

How to backup the TCL LINKPORT IK511 configuration:

1. Click **Backup** to save the configuration file.

2. On Windows and Mac OS these will be saved in the Downloads folder by default and the file name will be configure.bin.

How to restore the configuration:

1. Click Browse to select the previously backed up configuration file.
2. Click Restore.

Note: Do not plug out the TCL LINKPORT IK511 during the configuration restoration process.

4.5.6 Restart & reset

Restart: Click Restart to reboot the TCL LINKPORT IK511. Current settings will be maintained.

Reset: Click Reset to reset all settings back to factory default settings. Note that any custom settings you have applied will be reset, so backup a device configuration file as instructed above if you want to restore settings later.

You can also reset the device by holding the reset button on the back of the device down with a paper clip for more than 5 seconds.

Note: Do not plug out the TCL LINKPORT IK511 during the reset or restart process.

4.5.7 Firmware update

Click **Check for updates**. Your TCL LINKPORT IK511 will check if there is an update available.

If one is found, you may click Download. Once the file has downloaded successfully, the device will update automatically.

Enable Allow automatic updates to automatically update the device when a new update is available. If this option is disabled, you can still update the device via Check for updates.

Note: Do not plug out the TCL LINKPORT IK511 during the update process. Your internet connection may be unavailable during the update process.

Important safety information

Read all the safety information before using your product. Failure to follow these safety instructions could result in injury, or damage to your product or other property.

Important safety instructions

- Observe signs and notices that prohibit or restrict the use of wireless devices.
- Always handle your device with care. It contains sensitive electronic components inside. The device can be damaged if dropped, burned, punctured, or crushed, or if it comes in contact with liquid.
- Do not disassemble or attempt to repair your device yourself. Disassembling the device may damage it, or cause injury to you.
- The device and its accessories may present a choking hazard to small children. Do not let children use the device and its accessories without supervision.

Medical device interference

Your router contains components which may interfere with medical devices such as pacemakers, defibrillators, or other medical devices. Maintain a safe distance of separation between your medical device and your router. Consult your physician and medical device manufacturer for information specific to your medical device.

Power adapter

Use only adapters that are compliant with the applicable international and regional safety standards. Using other adapters could cause damage to the device or pose a risk of injury or death. It is important to keep the power adapter in a well-ventilated area when the power adapter is plugged into an electrical outlet. Don't use damaged power adapters.

Operating temperature

Your device is designed to work best in ambient temperatures between 0°C and 45°C (32°F and 113°F), and should be stored between ambient temperatures of -10°C and 70°C (14°F and 158°F). Your device may malfunction if operated or stored outside of these temperature ranges. Avoid exposing the device to dramatic changes in temperature or humidity.

Regulatory compliance information




This section introduces regulatory information, certification, and compliance information specific to your product.

Electromagnetic fields (EMF)

This product complies with all applicable standards and regulations regarding exposure to electromagnetic fields.

Disposal and recycling information

At TCL, we continually strive to improve our operations and products, and minimize our impact on the environment.

	<p>Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment. For recycling information, please visit www.tcl.com.</p>
 	<p>This symbol on your device and/or its accessories indicates that this device should not be disposed of with household waste. When this device reaches its end of life, take it to a collection point designated by local authorities. For more detailed information about device recycling, contact your local authorities, household waste disposal centers, or retail stores.</p> <p>The separate collection and recycling of your device and/or its accessories at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.</p>

Troubleshooting

If you encounter problems while using the product, use the troubleshooting information to help determine the problem and find possible solutions.

General problems

Problem	Solution
How do I set a new PIN code for my SIM card?	<ol style="list-style-type: none">1. Log in to the web UI.2. Go to Settings > Mobile network > SIM PIN management.3. Enable SIM PIN status operation, and enter a new PIN code.4. Click Apply.
Where can I find the device's model number and hardware version?	<ol style="list-style-type: none">1. Log in to the web UI.2. Go to System > Device information.

Web UI problems

Problem	Solution
How can I access the web UI?	<ol style="list-style-type: none">1. Open the web browser, and go to http://192.168.0.1.2. Enter the login information as required. Find the default login information on the bottom label of the TCL LINKPORT IK511.
I can't log in to the web UI.	<ul style="list-style-type: none">• Make sure 192.168.0.1 is entered correctly in the web browser.• Make sure the TCL LINKPORT IK511 is plug in the computer correctly.• Make sure the system/signal LED indicator are solid green.
How do I change the login password?	<ol style="list-style-type: none">1. Log in to the web UI.2. Go to System > Login password.
"No SIM card" or "Invalid SIM card" is displayed on the web UI.	<ul style="list-style-type: none">• Make sure there is a SIM card in your TCL LINKPORT IK511.• Reinstall the SIM card, and log in to the web UI again.

Connection problems

Problem	Solution
I can't access the internet.	<ul style="list-style-type: none">• If no SIM card is detected, reinsert the SIM card, then try again.• If a PIN code is required, enter the PIN code, and try again.• If no network is available, place the TCL LINKPORT IK511 in an area with better signal (for example near a window), and try again.• Reboot your TCL LINKPORT IK511, and try again.• If the DHCP server is enabled, make sure your device MAC address is enabled on the DHCP Reservation list.
"PIN lock" or "PUK lock" is displayed on the screen of the device connected to the TCL LINKPORT IK511 network.	<p>This indicates that the SIM card is locked.</p> <p>To unlock the SIM card, log in to the web UI and enter the PIN code or PUK code. To obtain the PUK code, contact your internet service provider.</p> <p>NOTE: If the PIN code is entered incorrectly 3 times, you will be required to enter the PUK code. If the PUK code is entered incorrectly 10 times, the SIM card will be locked permanently.</p>