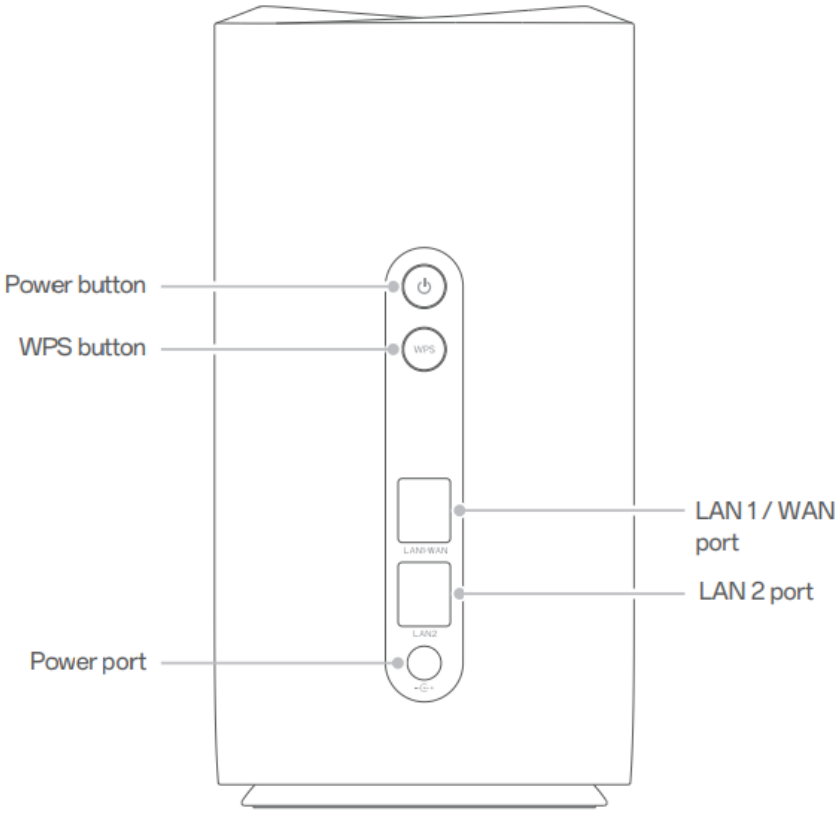
ONEPLUS CTD05 Hub 5G Router User Guide

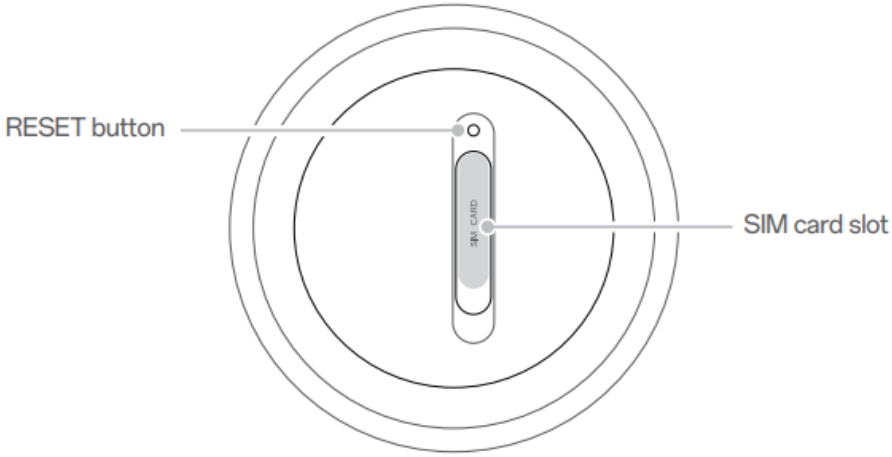
Contents

ONEPLUS CTD05 Hub 5G Router

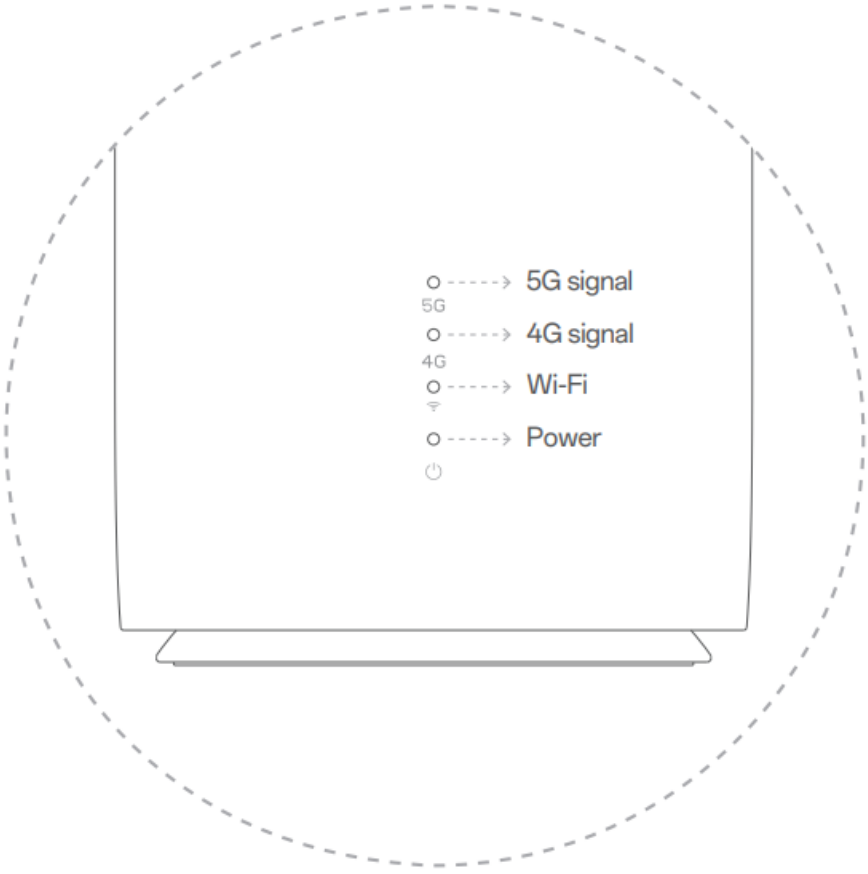

5G
4G

Appearance


Power button
WPS button
WPS
LAN1/WAN
LAN2
Power port
LAN 1 / WAN port
LAN 2 port



Indicator

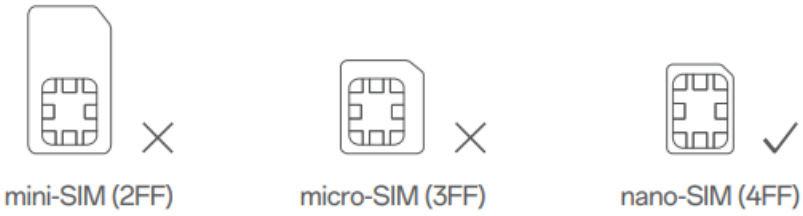


Indicator Status Descriptions

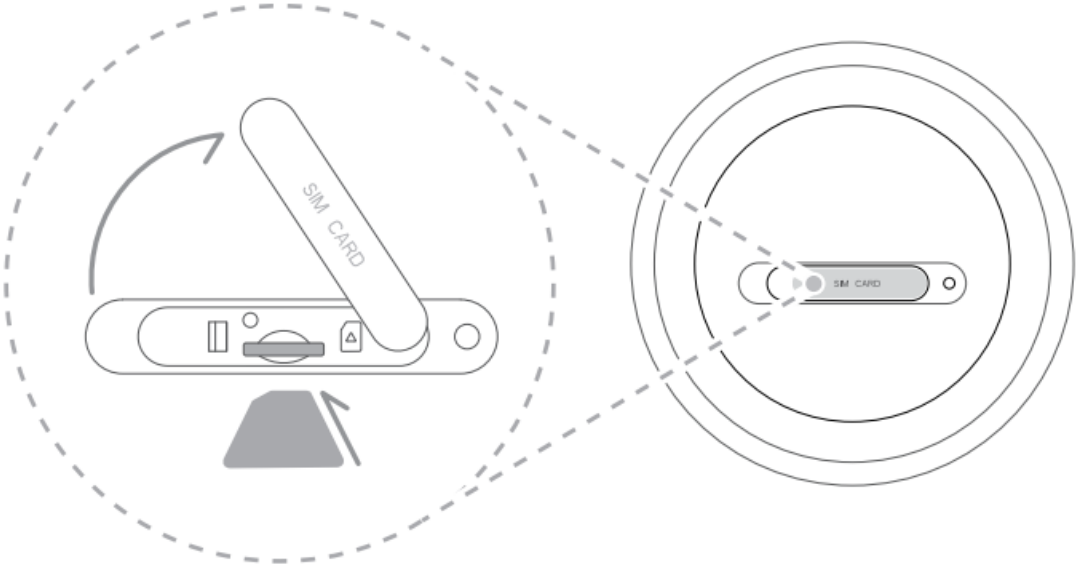
5G/4G signal indicator	White	Strong signal
	Yellow	Medium signal
	Red	Weak signal
	Off	SIM card not inserted, SIM card invalid, SIM card locked, or no signal
Wi-Fi indicator	White	Wi-Fi normal
	Blinking white	WPS running/Mesh Searching
	Off	Wi-Fi turned off
Power indicator	White	Router running
	Off	Router powered off

Set Up the Network with a SIM Card

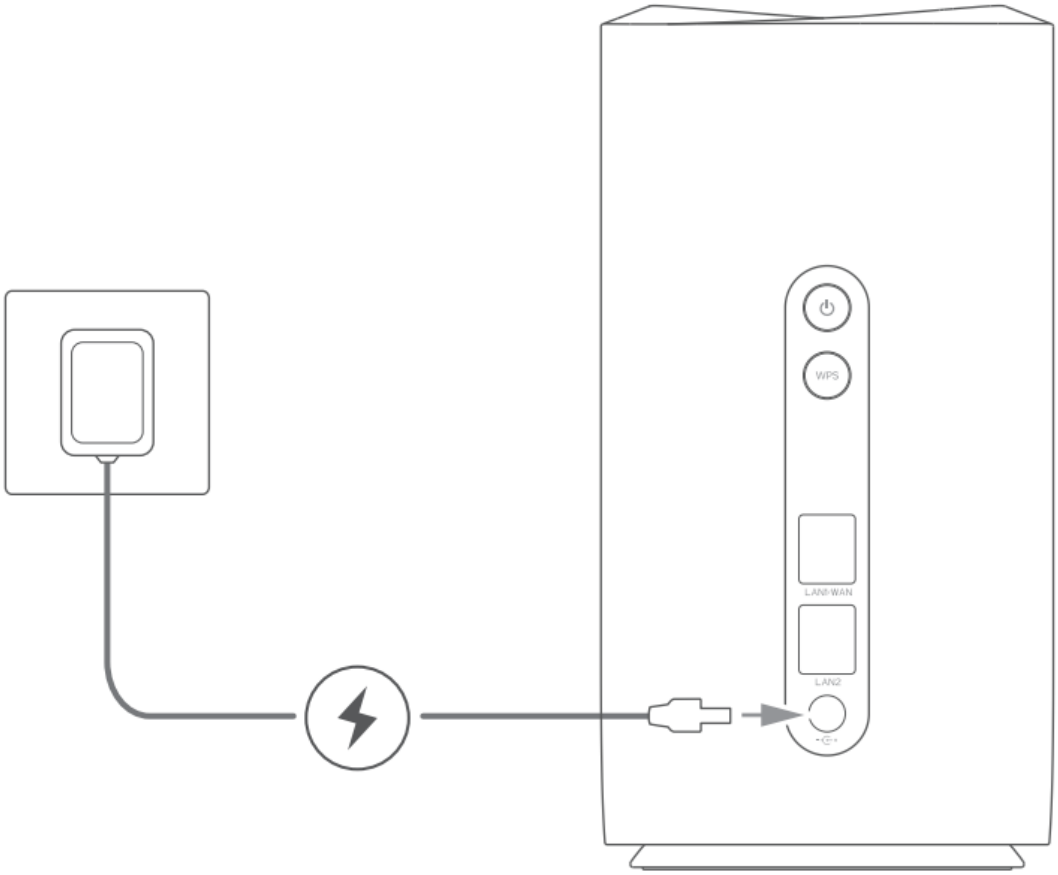
1. Prepare a nano-SIM card. A local SIM card is recommended.



2. Open the SIM card slot at the bottom of the router and insert the SIM card as shown in the following figure.



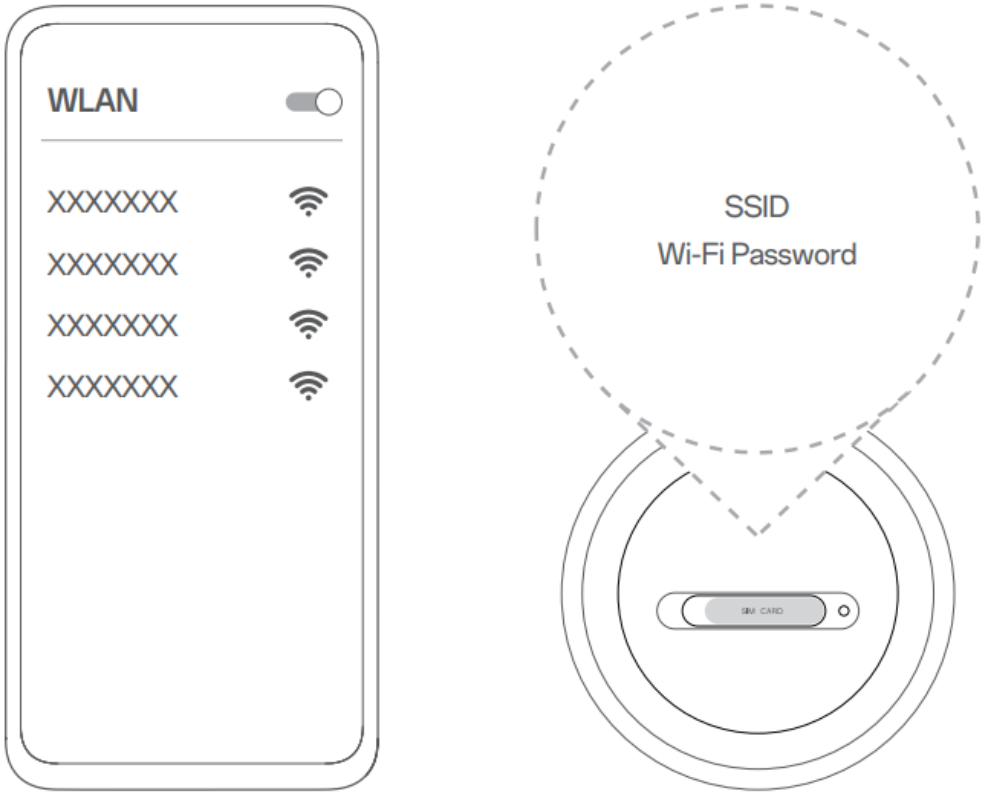
3. Connect your router to a power source. The router then automatically powers on and searches for an available network.



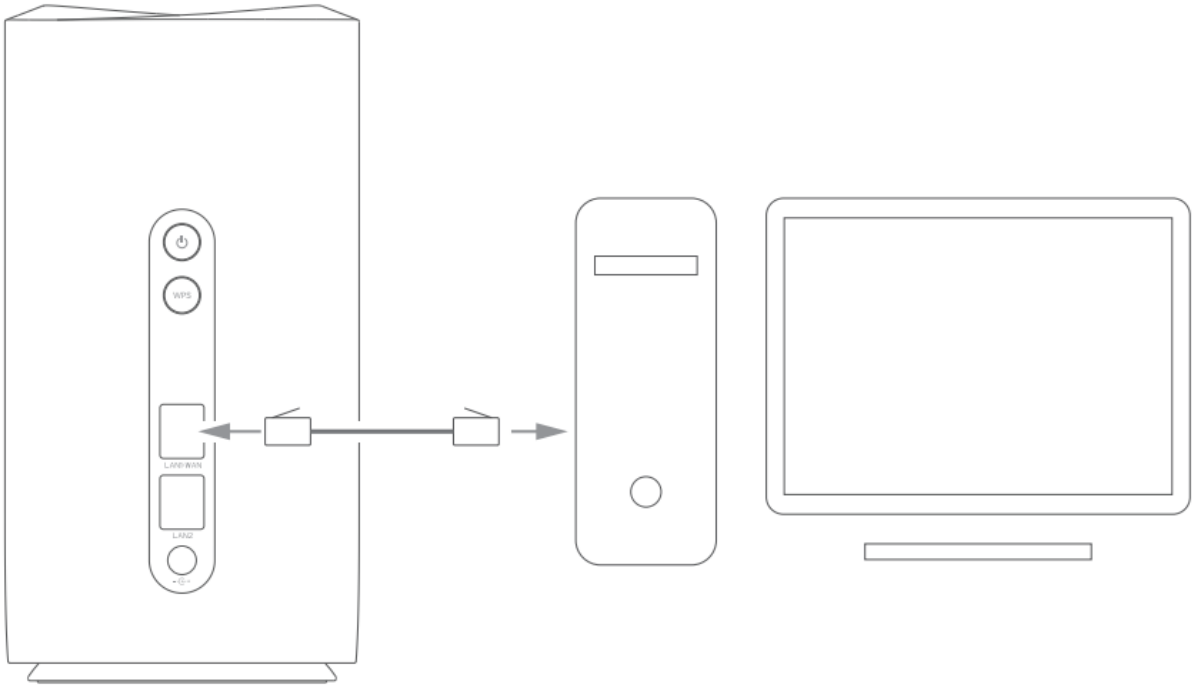
4. Wait until the power-on initialization ends. If the 4G or 5G indicator is on, the router has successfully connected to a network. If the 4G or 5G indicator does not turn on, refer to “FAQ” for troubleshooting.

Connecting to the router for Network Access

Method 1
Connect your device to the router via Wi-Fi. For the default Wi-Fi name (SSID) and default Wi-Fi password, see the label attached to the bottom of the router.



Method 2
Connect your device to the router via a network cable. If your device requires a wired connection (e.g. a computer), connect it to a LAN port at the rear of the router via a network cable.



Change the Passwords

- To prevent others from connecting to your router without your consent, after the first connection, sign in to the Management Page, and follow the instructions to change the router management password (used to sign in to the Management
- Page) and Wi-Fi password, as follows: Connect your mobile phone or computer to the router via Wi-Fi or a

network cable.

- Log in to “**http://oneplus.home**” on the browser to access the Management Page.
- On the sign-in page, enter the default username and default password to sign in to the platform.
- Follow the instructions to set a new Wi-Fi password, and a new Router management password, and select a network mode.
- After changing the passwords and Wi-Fi name, you need to reconnect your device to the router with the new password.
- In addition to the above mentioned, many other settings can be configured on the Management Page (**http://oneplus.home**)

Mesh Networking

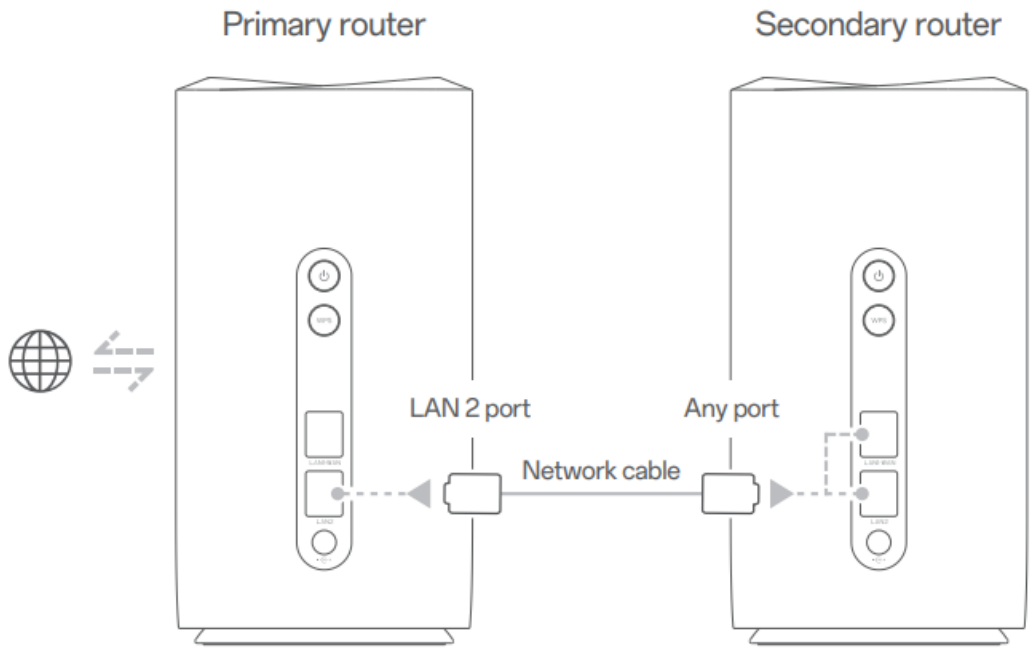
For users who need Wi-Fi coverage for larger spaces, we recommend purchasing multiple 5G routers. Then follow the steps below to connect them in a mesh network.

Method 1: Wireless mesh networking
Choose one OnePlus Hub 5G Router to serve as the primary router, which will connect directly to the internet. The Network, Power, and Wi-Fi indicators on this router should be solid white. Sign in to the Router Management Page (**http://oneplus.home**), go to Wi-Fi Settings – Basic, and switch to “Unified Band Settings”. The other router will serve as a secondary router*. Place it near the primary router, plug it into a power outlet, and turn it on. The Power and Wi-Fi indicators on this router should be solid white.

Ensure that the secondary router is set to factory settings, and turn it on within 30 minutes. Press the WPS button on the back of the primary router twice in 3 seconds. The Wi-Fi indicator should flash white as wireless mesh networking begins. If the Wi-Fi indicators of both routers are solid white and the Network indicator of the secondary router is solid white, then mesh networking has been successful. If the Wi-Fi indicators of both routers flash white 10 times before turning solid white, but the Network indicator of the secondary router does not light up, then mesh networking has failed.

Method 2: Wired mesh networking

1. Complete the first three steps of method 1, and then use a network cable to connect the LAN 2 port of the primary router to any port of the secondary router.
2. Press the WPS button on the back of the primary router twice in 3 seconds.
3. The Wi-Fi indicator should flash white as wireless mesh networking begins.
4. If the Wi-Fi indicators of both routers are solid white and the Network indicator of the secondary router is solid white, then mesh networking has been successful. If the Wi-Fi indicators of both routers flash white 10 times before turning solid white, but the Network indicator of the secondary router does not light up, then mesh networking has failed.



Method 3: Complete mesh networking on the Router Management Page
Complete the first three steps of method 1, and then follow the instructions on the Router Management Page (**http://oneplus.home**) to complete mesh networking.

Manage your router with an App

1. Download and install the OnePlus Home App by scanning the QR code below or going to your phone's app store.
2. Make sure your router is connected to the internet and your phone is connected to the Wi-Fi network of the router.
3. Open the OnePlus Home App and add your router as instructed. After adding successfully, you can tap your router on the device list page to manage it.

OnePlus Home App (Android 8.0 or later; iOS 13.0 or later)

FAQs

How do I restore the router to factory settings?
Power on the router and wait until the indicators light up and are steady. Use a pin to press and hold the RESET button at the bottom of the router for 3 seconds. Release the RESET button when the Wi-Fi indicator, 4G signal indicator, and 5G signal indicator flash 3 times quickly. The router will then start to be restored to factory settings. Once the router is restored to factory settings, all its parameters will be reset, and you will need to sign in to the Router Management Page to configure them again.

What can I do if I forget the Wi-Fi password or the router management password?
If you forget the Wi-Fi password, connect your computer to a LAN port at the rear of the router via a network cable, and sign in to the Router Management Page to view the Wi-Fi password. You can also restore the router to factory

settings, and then use the Wi-Fi password and router management password on the label attached to the bottom of the router to sign in again.

I inserted a SIM card. Why doesn't the power indicator or 5G/4G signal indicator turn on (or the 5G/4G signal indicator turns on but the router won't connect to the Internet)?

- Check whether the power connector is properly inserted into the power port of the router and whether the router is powered on.
- Check whether you are using the right-size SIM card and whether it is correctly inserted into the slot. For details, see "Set Up the Network with a SIM Card".
- Contact your network provider to check whether the SIM card is activated and confirm that is unlocked and your account is not in arrears.
- If this problem persists, try to restore the router to factory settings.

How do I connect to the router through WPS?

- If your device supports WPS (Wi-Fi Protected Setup), perform the following steps to connect your device to the router:
- Press the WPS button on the router and hold for 3 seconds to start WPS. The Wi-Fi indicator will start blinking.
- Turn on the WPS function on your device within 2 minutes after you press the WPS button of the router (generally, you can turn on this function in your device's Wi-Fi settings).

What can I do if the network speed is too slow?

- Check the status of the 5G/4G signal indicator. If the indicator is red or yellow, adjust the position of the router or move it to a different location to obtain better signal strength. A white 5G/4G signal indicator means the mobile network signal is strong; a red one indicates the signal is weak.
- If you access the network via Wi-Fi, make sure your devices are within range of a good Wi-Fi signal.
- Contact your network provider to check whether your network speed has been restricted because you've reached your mobile data limit.
- Restart the router or your device and try connecting to the Internet again.

How do I choose between 5 GHz Wi-Fi and 2.4 GHz Wi-Fi?

- 5 GHz Wi-Fi provides a faster data transmission speed with less interference.
- However, 5 GHz Wi-Fi is not good at penetrating solid objects (such as walls and floors) compared to 2.4 GHz Wi-Fi. Your device must support the 5 GHz Wi-Fi frequency band to use it.
- You can switch to "Unified Band Settings" in "Wi-Fi Settings" on the Router
- Management Page. 2.4 GHz and 5 GHz signals will be displayed as one Wi-Fi signal source. After a device connects to this Wi-Fi network, it will automatically select the best Wi-Fi frequency band.

What can I do if I can't access the Router Management Page?

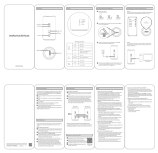
- Make sure your device is connected to the router through a network cable or Wi-Fi.
- Make sure your device is set to automatically obtain the IP address and DNS server address.

- Restart the browser or use another browser.
- If this problem persists, try to restore the router to factory settings.

If you encounter other problems when using the router, try the following troubleshooting methods:

- Restart the router.
- Restore the router to factory settings.
- Contact OnePlus for help

Documents / Resources

	ONEPLUS CTD05 Hub 5G Router [pdf] User Guide CTD05 Hub 5G Router, CTD05, Hub 5G Router, Router

References

- User Manual