This Modem Uses a Nano SIM card

M4G

VISION PLUS 4G CAT6 ROUTER

Welcome to Your 4G Mi-Fi Router Quick Start Guide

Thank you for choosing the VisionPlus 4G Mi-Fi Router. Designed for simplicity and performance, this Category 6 4G router offers faster speeds and a more reliable connection, ensuring seamless internet access wherever you are. This guide will walk you through the easy setup process, key features, and tips to maximise your device's performance. Whether you're at home, at work, or on the go, enjoy effortless connectivity and high-speed browsing with your new router.

Your new 4G router is more than just a Wi-Fi hotspot.
This versatile device can enhance your connectivity experience in countless ways.

Stay Connected, Anywhere

- **Mobile Flexibility: With 4G LTE technology, you can enjoy high-speed internet anywhere. Stay connected to your online world whether you're travelling for work or pleasure.**
- **Reliable Backup: Use your router as a backup internet connection if your primary service fails. Ensure uninterrupted access to online services.**

Customize Your Wi-Fi Network

- **Dual-Band Wi-Fi: Choose between the 2.4GHz or 5GHz Wi-Fi bands to optimise your internet connection. The 2.4GHz band offers better range, while the 5GHz band provides faster speeds. You cannot use both simultaneously.**
- **Guest Network: Create a separate Wi-Fi network for guests to share your internet connection without compromising your privacy.**

Communicate on the Go

- **SMS Functionality: Send and receive text messages directly from your router. This is especially useful for remote monitoring or emergency communications.**

Uninterrupted Connectivity with Built-in Battery

- **Emergency Backup: The router's built-in battery can provide up to 4 hours of backup power, ensuring uninterrupted connectivity even during power outages.**

Easy to Set Up and Use

- **Intuitive Interface: The router's user-friendly interface makes configuring and managing your network settings simple.**
- **Quick Start Guide: Follow the instructions to get your router up and running quickly.**

With its powerful features rechargeable battery backup and convenient design, your 4G router is the perfect companion for your digital caravan lifestyle.

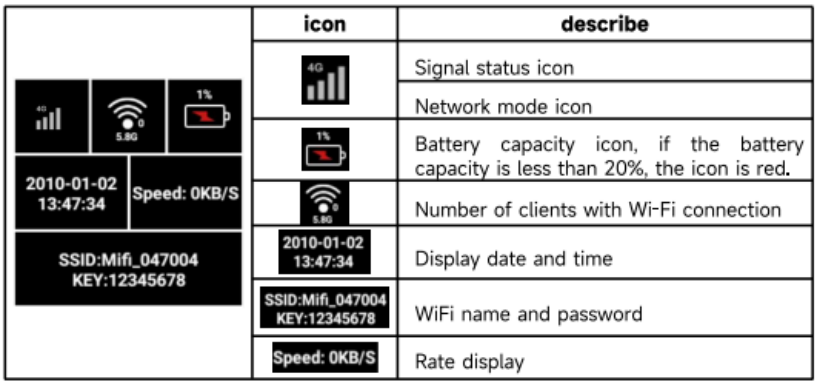
Press and hold the top right-side power button to power up the Router.
To charge, plug the unit into a USB dock, USB phone charger (No supplied) or a laptop.

1. Use the power outlet to charge the battery.

2. Use USB-A of a computer or laptop to charge the battery.

SIMPLE SETUP

To access the router setup interface, connect to the Wi-Fi using a laptop, desktop or mobile phone. The SSID (Name of Wi-Fi) and password are shown on the screen,



icon	describe
	Signal status icon
	Network mode icon
	Battery capacity icon, if the battery capacity is less than 20%, the icon is red.
	Number of clients with Wi-Fi connection
2010-01-02 13:47:34	Display date and time
SSID:Mifi_047004 KEY:12345678	WiFi name and password
Speed: 0KB/S	Rate display

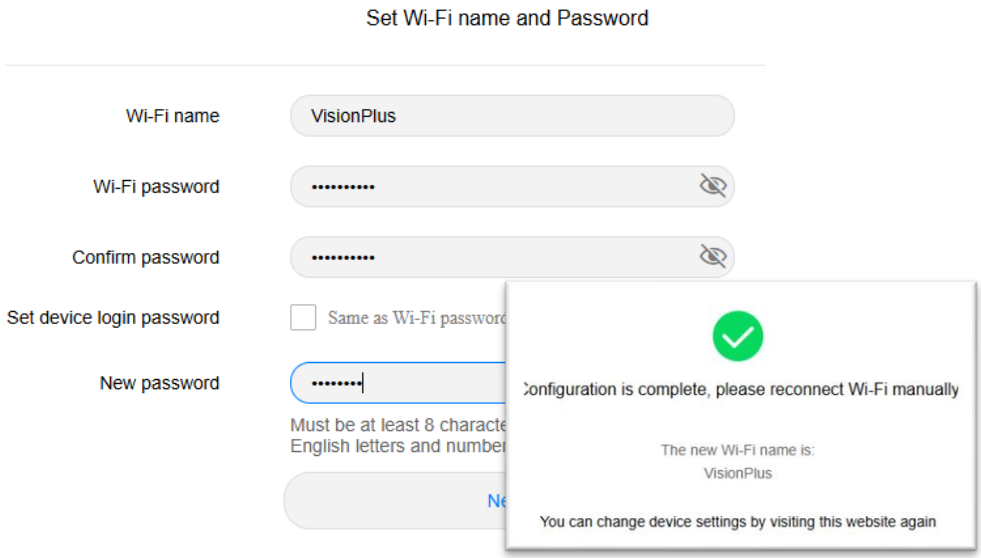
- You can use the QR code to connect to the Wi-Fi for initial setup and you can find the QR code by clicking the top menu button on the router.
- Alternatively select the Wi-Fi name (SSID) on your phone and login with the temporary setup password of 12345678
- You can also plug your laptop into the router using a data USB lead.

If connected by Wi-Fi, in your browser, enter 192.168.42.1 (Wi-Fi interface)
If connected by data USB , in your browser, enter 192.168.43.1 (PC Interface)

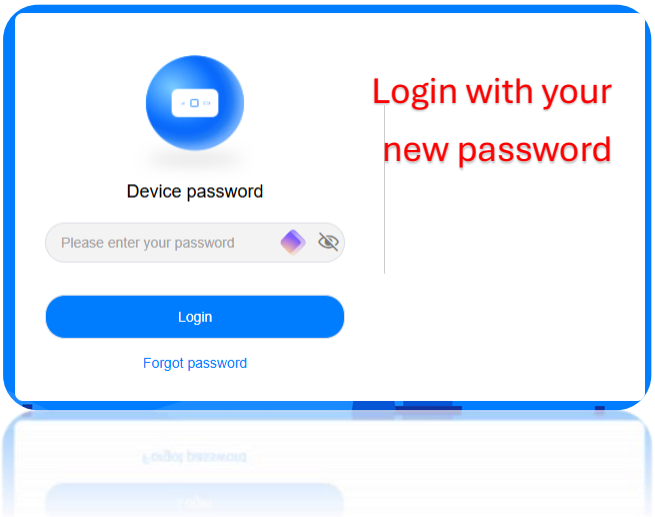
Once connected, open your Browser and type 192.168.42.1 into the bar at the top.

Alternatively, scan the QRCode to connect to the interface.

If this is your first time logging in, then you will be asked to change the password for both Wi-Fi and admin, this is for security reasons.



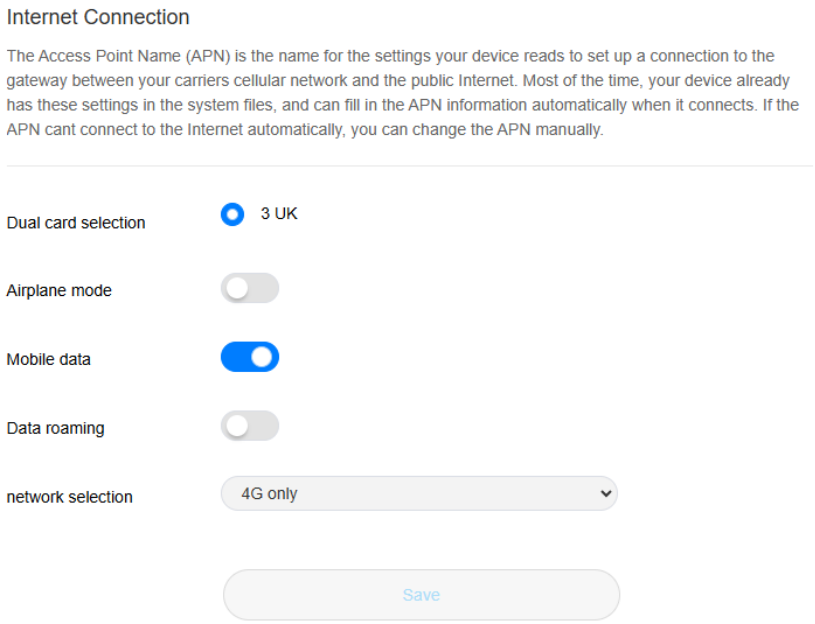
- You have now completed the basic setup of the router, if you are connected via Wi-Fi, you will need to reconnect with your new Wi-Fi credentials.
- You can go to 192.168.43.1 in your browser, to continue setup, if required.
- If you are connected via the USB interface, then enter 192.168.42.1 in your browser, to continue setup, if required.

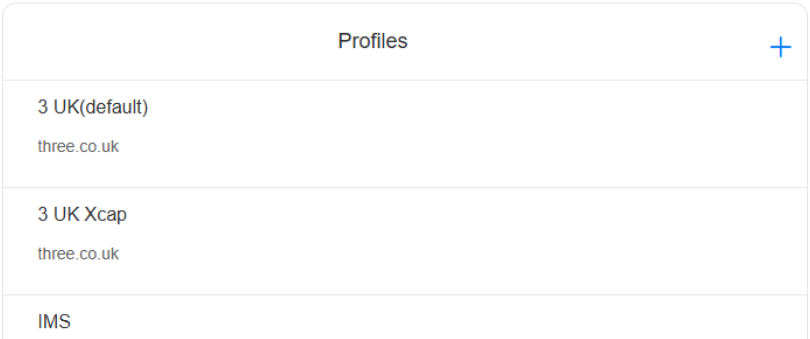


Card selection: The network you are currently connected to (Information only).
Airplane mode: Disables all wireless cellular and Wi-Fi connections. This is often used on airplanes to prevent interference with aircraft systems.
Mobile data: Deactives the modem This means your MiFi router will no longer use its mobile data connection to access the internet.
Data roaming: Data roaming lets you use mobile internet abroad, but often at higher charges.
Network selection:

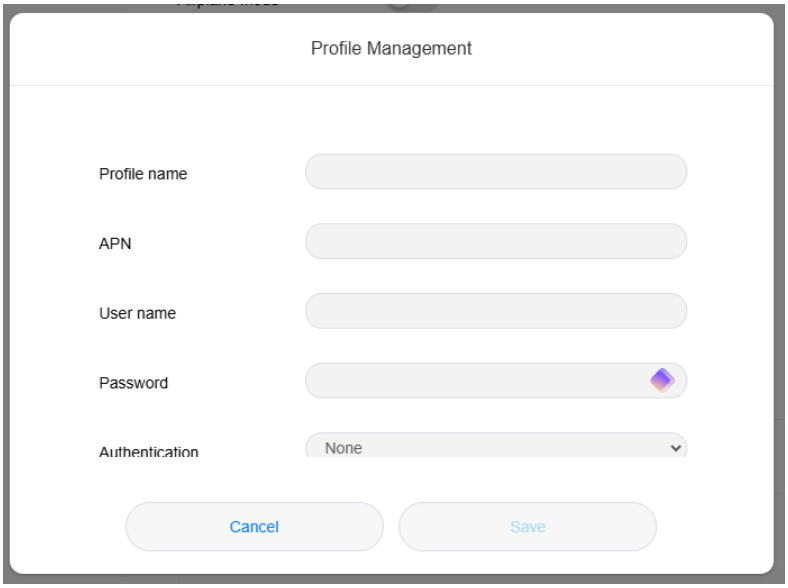
- 4G Only: When you need the fastest speeds and are in an area with strong 4G coverage.
- 3G and 4G: For a balance of speed and reliability, allowing your MiFi to adapt to the best available network.
- 3G Only: When you prioritize coverage and battery life, or if you're in an area with limited 4G availability.

Ultimately, the best option depends on your needs, location, and the network coverage in your area. Default is 3G and 4G as this covers most needs.

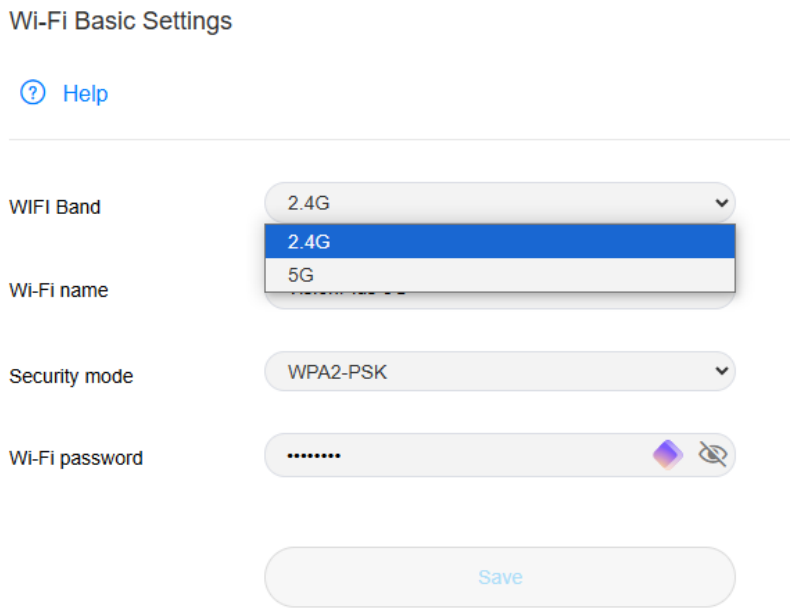




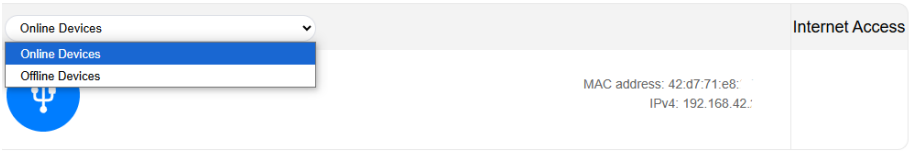
Profile management lets you add APNs. An APN is like an address your MiFi uses to connect to your carrier's network for internet access. Each carrier has unique APN settings. If your MiFi can't connect, the APN might be wrong. Find the correct settings on your carrier's website and enter them here. Most UK carriers are pre-installed, but if needed, enter the carrier's APN details, save, and restart your MiFi.



Choose between 2.4GHz (better range/compatibility) and 5GHz (faster speeds, shorter range) in Wi-Fi settings. The router can't use both at once. For security, always use WPA2-PSK and a strong password. This is the password you set up initially.

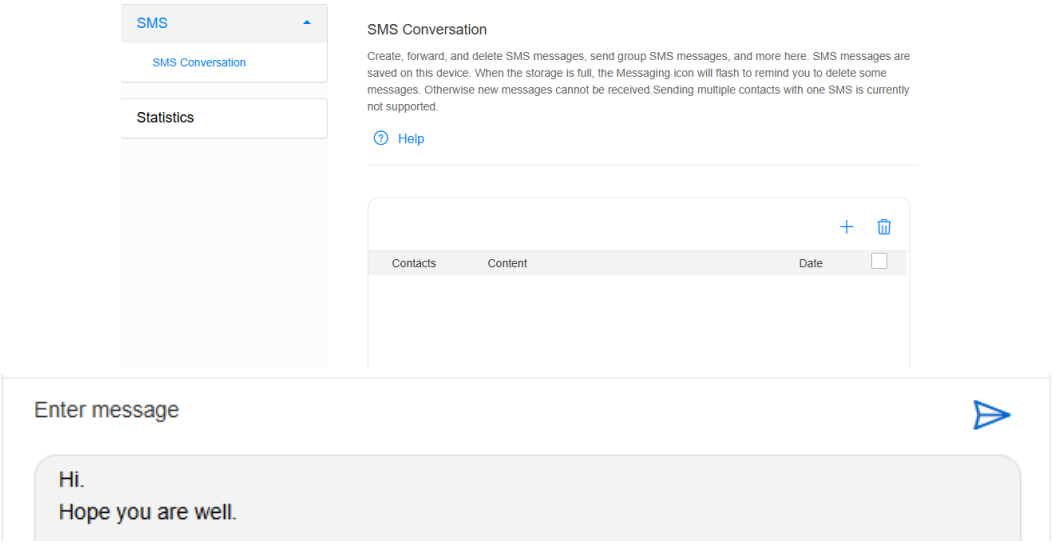


The "Internet Access" setting allows you to control whether a specific device connected to your MiFi router can access the internet. Even if a device is successfully connected to the MiFi's Wi-Fi network, it won't be able to browse the web or use internet-dependent apps if the "Internet Access" feature is disabled for that device. This can be useful for temporarily restricting internet access for certain users or devices, while still allowing them to connect to the local network for other purposes, such as sharing files or printers.

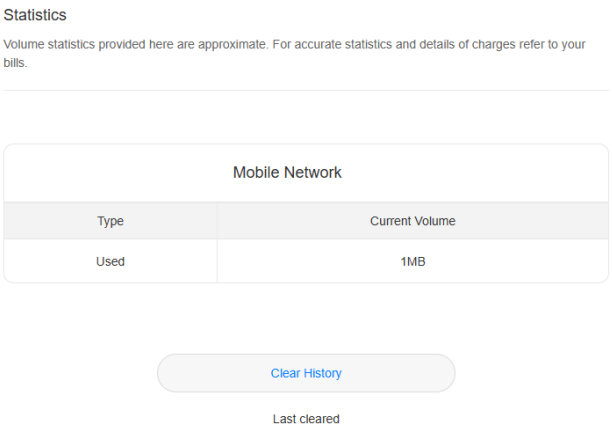


You can manage SMS messages here: create, forward, delete, and send group texts. Messages are stored on this device. When storage is full, the Messaging icon will flash you should delete messages to receive new ones.
Sending an SMS to multiple contacts simultaneously is not currently supported.

To send an SMS, click the "+", enter the recipient's number, type your message, and press send.



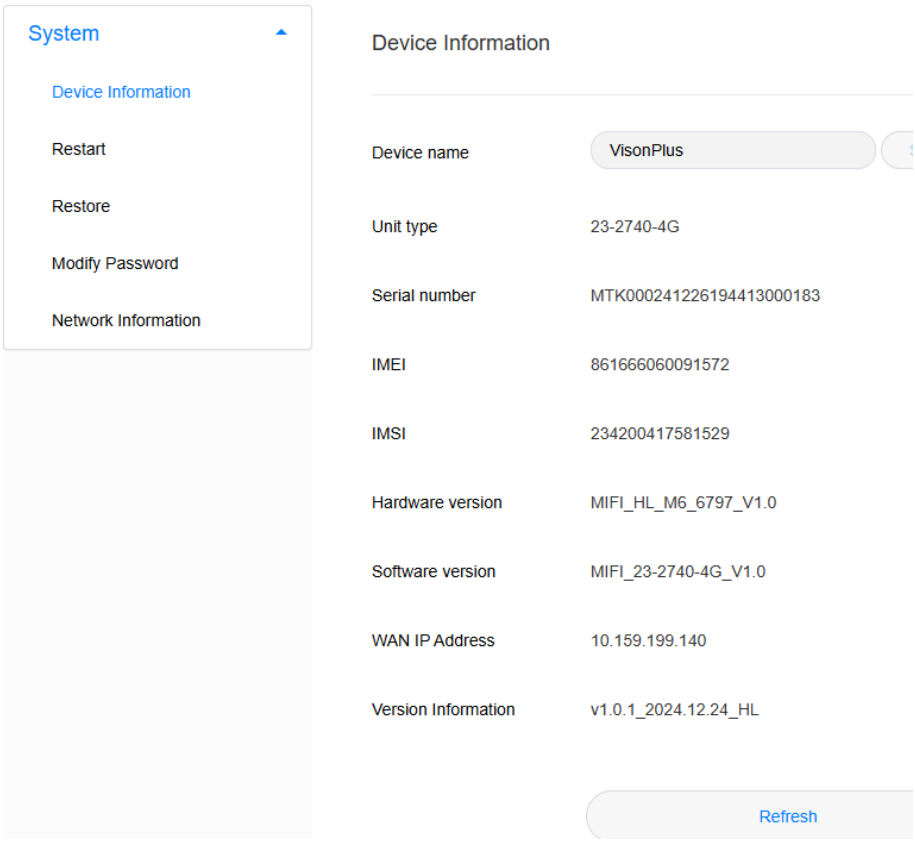
SMS volume statistics are approximate.
Consult your billing statements for accurate usage and charges.



In the Advanced section, you can change the device name (default is VisionPlus). The remaining information in this section is for viewing only.

it's worth keeping a note of your MiFi router's IMEI number. Here's why:

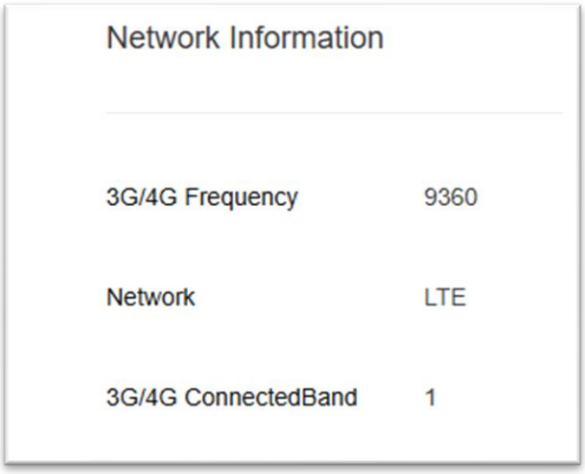
- **Identification:** The IMEI (International Mobile Equipment Identity) number is a unique identifier for your device, like a serial number. It helps to distinguish your MiFi router from all others.
- **Recovery:** If your MiFi router is stolen, you can provide the IMEI number to your mobile carrier and the police.
- **IMSI: Your SIM card's ID** Think of the IMSI (International Mobile Subscriber Identity) as the unique identification number for your SIM card itself. It links your subscription to your mobile network. This is different from the IMEI, which is tied to the device



Restart: A soft reboot, like restarting a computer. It resolves minor glitches without changing your settings (Wi-Fi password, name, APN, etc.). Use this for temporary slowdowns or minor connectivity issues.

Restore (Factory Reset): Erases *all* settings, returning the router to factory defaults. This is irreversible. Use it as a last resort for persistent problems or before giving away the router. You'll need to reconfigure everything afterward, including your Wi-Fi and APN settings.

Modify Password (Admin Password): Changes the password you use to access the router's settings. Use a strong, unique password (letters, numbers, symbols) to prevent unauthorized access. Change it regularly. This is separate from your Wi-Fi password.



This screen shows key **Network Information** for your MiFi device, providing details about its cellular connection. Let's break down each element and explain its usefulness:

1. 3G/4G Frequency (9360):

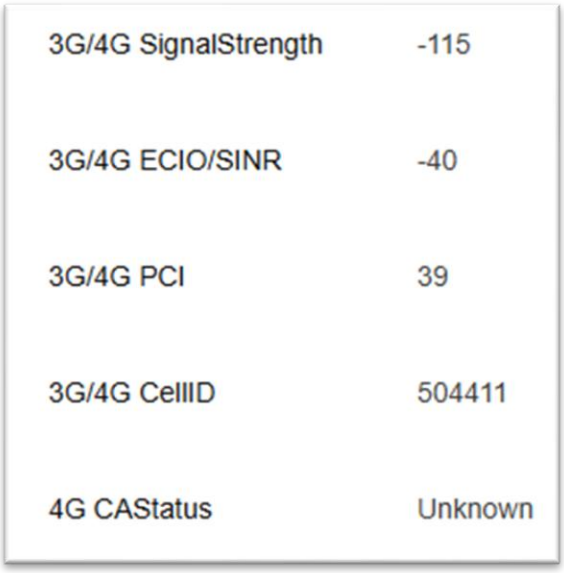
- **Meaning:** This indicates the radio frequency band being used for the cellular connection. Different regions and carriers use different frequencies.
- **Usefulness:** Generally, you won't need to change this. It's more for informational purposes, useful for advanced troubleshooting or understanding network compatibility in different areas.

2. Network (LTE):

- **Meaning:** Confirms the connection is using LTE (Long Term Evolution), which is a 4G cellular technology.
- **Usefulness:** Shows you're on a 4G connection, which generally offers faster speeds than 3G.

3. 3G/4G Connected Band (1):

- **Meaning:** Specifies the specific LTE band being used within the LTE frequency range. Band 1 is a common LTE band used by many carriers globally.
- **Usefulness:** Similar to frequency, this is mainly informational for advanced troubleshooting or ensuring compatibility.



3G/4G SignalStrength	-115
3G/4G ECIO/SINR	-40
3G/4G PCI	39
3G/4G CellID	504411
4G CAStatus	Unknown

4. 3G/4G Signal Strength (-114 in this example):

- **Meaning:** Measures the strength of the cellular signal your MiFi is receiving. It's measured in dBm (decibels per milliwatt), a logarithmic scale where the numbers are negative. **The closer to 0, the stronger the signal.** -114 dBm is a relatively weak signal.
- **Usefulness: Extremely useful for determining optimal placement of your MiFi device.** A stronger signal means better speeds and more reliable connection. If the signal is weak, try moving the VisionPlus antenna to a location with less obstruction.

5. 3G/4G ECIO/SINR (Combined) (In this example -37):

- **ECIO stands for Equalized Carrier-to-Interference and Noise Ratio. It's a measure of the signal quality and strength of a 4G network connection.**
- **In simpler terms, ECIO measures how well the router's antenna is able to receive and decode the 4G signal, while minimizing interference and noise from other sources. A higher ECIO value indicates a stronger and more reliable signal. Usefulness:** Along with signal strength, SINR helps diagnose connection issues. A low SINR suggests interference (from other devices, physical obstacles) or network congestion.

6. 3G/4G PCI (39):

- **Meaning:** PCI (Physical Cell ID) is a unique identifier for the specific cell tower your MiFi is connected to.

7. 3G/4G CellID (504411):

- **Meaning:** A unique identifier for the cell tower and sector your MiFi is connected to. It's more specific than PCI.

8. 4G CA Status (Unknown):

- **Meaning:** Indicates the status of Carrier Aggregation (CA), a technology that combines multiple LTE bands to increase data speeds. "Unknown" means the device is unsure if CA is active.
- **Usefulness:** If CA is enabled, you should see information about the secondary bands being used. CA significantly improves performance.

To factory reset the router, hold the 'M' (menu) key for 15 seconds. The router will reboot and reset to factory settings, losing any customisations."

Specifications.

Category	Details
Network	Protocol: 3GPP Rel.11, LTE Category 6
	System: FDD LTE, DC-HSPA+, HSPA+, HSUPA, HSDPA, UMTS
Bands and CA*	LTE-FDD: 81/83/B5/B7/B8/B20/B28A
	LTE-TDD: 838/B40/B41
	UMTS/HSPA/HSPA+: 81/B5/B8
	OEM*: Frequency bands can be customized according to customer needs
	2CA DL: 1A+5A/8A/20A/28A; 3A+5A/8A/20A/28A; 5A+5A/7A/40A; 7A+7A/8A/20A/28A; 20A+38A; 40A+40A; 41A+41A
Data Rate	LTE: Downlink/Uplink up to 300Mbps/50Mbps
	HSPA+: Downlink/Uplink up to 42.2Mbps/11.5Mbps
Antenna	3G/4G Antenna: Internal, 2x2 MIMO
Wi-Fi	Protocol: Wi-Fi 5 802.11a/b/g/n/ac, 1x1 2.4GHz or 5GHz
	Clients: 16 Users
	Data Rate: LTE: Downlink/Uplink up to 300Mbps/50Mbps; HSPA+: Downlink/Uplink up to 42.2Mbps/11.5Mbps
	Antenna: 1x1 Internal Antenna
Display	LCD (Power, 4G, 3G, Wi-Fi)
Button	Power, Reset
Interface	USB2.0 Port: Type-C
SIM	USIM Nano,
Battery	2300mAh USB 5V/2A

Category	Details
Approximate Power consumption	Switched off: 0.1mA Standby: < 10mA Browsing web pages: 350mA by browsing one news for 10 minutes Playing video: 250mA 1 device connected to Wi-Fi and play the video: about 250mA; 5 devices connected to WiFi, playing videos: around 350mA