

MAXVIEW



MXL060 Roam 5G

Installation & User Instructions

This manual provides information on how to control the Roam 5G Router using your devices internet browser. Most of these functions can be completed easier and faster using the Maxview Roam App. See the Roam App instruction manual for more information.

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9111446 Iss 1

Maxview Roam 5G Powered by



We have partnered up with one of the largest suppliers of Wi-Fi products worldwide.

Introduction

Thank you for purchasing this product, should you have any difficulty using your Roam 5G Mobile 3G/4G/5G Wi-Fi System please contact our friendly Customer Helpline on +44 (0)1553 811000 or email support@maxview.co.uk.

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Record your Purchase

Please fill in the details below once purchased. This information will be required in the unlikely event of a fault occurring with this system.

See page 12 to see where you can find this information.

SERIAL NUMBER

SSID

PASSWORD

Product Contents

- A. Omni-directional Roof Mount Antenna and 0.8m cables with SMA connectors*
- B. 3G/4G/5G Wi-Fi Router
- C. 12V Vehicle Power Supply
- D. Router Mounting Bracket and Fixing Kit
- E. 1.5m Ethernet Cable

- F. 2 x Internal Wi-Fi Antennas
- G. SIM Adaptor Pack
- H. Roof Clamp
- I. Fixing Template
- J. No. 6 Screws X 3
- K. No. 6 Countersunk Screws x 4

*White or Grey Plastics



Tools required

- Power Drill
- 25mm Hole Saw
- Hack Saw
- Surface Cleaner
- 2.5mm Drill Bit
- Cross Head Screwdriver
- File/Emery Paper

Choosing a Service Provider



To use the Maxview Roam 5G, you will need a suitable data SIM card (sold separately)
The Maxview Roam 5G is unlocked, so you can use any service provider.

The best package will depend on many factors such as data usage, budget, location of travel and usage habits, however pre-paid data plans are usually more cost effective.

Accessories - Sold separately



Roam Bracket Fixing Kit - For roof mounting

The raiser bracket allows you the flexibility to mount your antenna anywhere on your roof and enter the cable at your preferred point using the supplied cable entry cover. Alternatively you may have an existing cable entry point you may like to utilise instead.

Designed and manufactured specifically for the Roam Antenna, the aluminium bracket is lightweight, strong and finished with a durable white powder coating.

Suitable for any flat roof the kit also includes 3m extension cables for flexible mounting position.

[MXL050/KIT1](#) White
[MXL050/GKIT1](#) Grey



Roam Extension Cables*

Extension cables can be purchased separately to allow a flexible mounting position to the router.

*For use with this 4x4 antenna you will need to order 2 packs.

1 metre [MXL050/EXT1](#) 3 metres [MXL050/EXT3](#)
2 metres [MXL050/EXT2](#) 5 metres [MXL050/EXT5](#)



Weatherproof Socket with SMA Connectors

The Weatherproof Socket provides an external entry point into the side of any vehicle. Available with 2 SMA connections, making it ideal when using the Roam Antenna with the Roam Bracket Fixing Kit (See left) to allow for a temporary connection or where entry into the roof is not possible.

It can also be used for other applications where an external SMA connection is required. Please note you will require 2 Weatherproof Sockets.

[B2016](#)

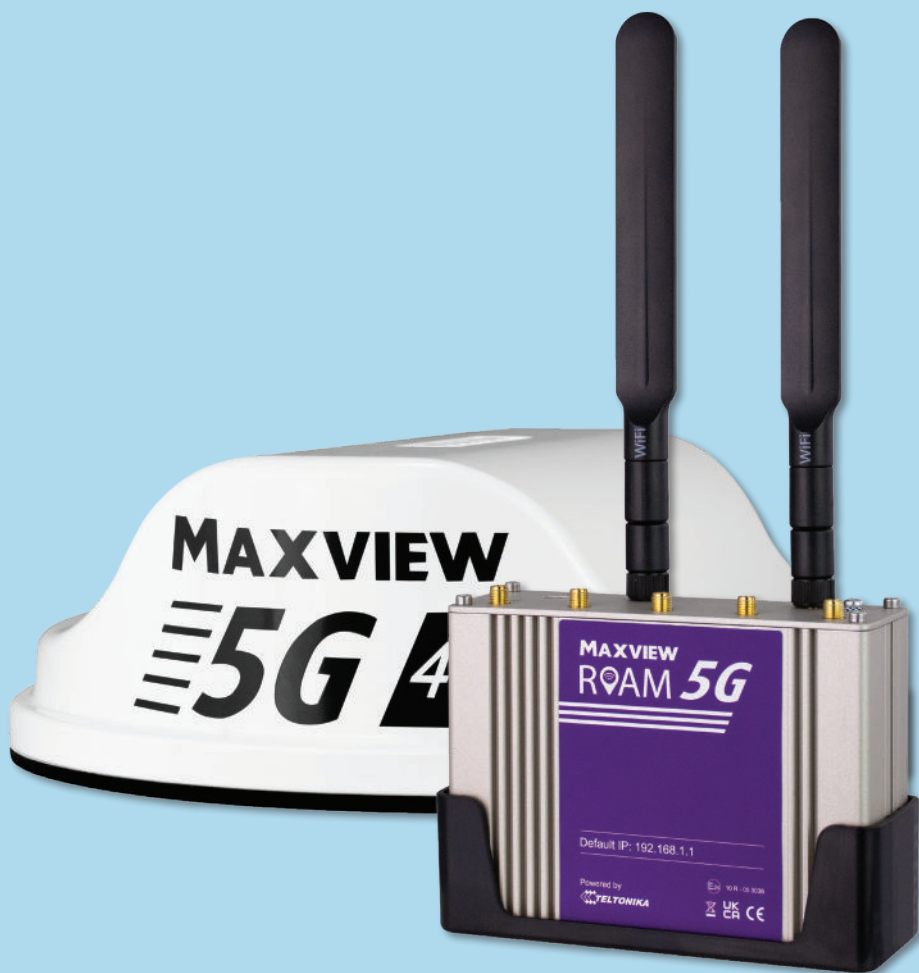


Roam 230V PSU

230V ac to 12V dc Power Supply Unit to power a Roam. For indoor use only.

[MXL051/PSUUK](#)

Installation Instructions



Positioning your Roam 5G

Distance between Router and Antenna

For best performance, we recommend mounting the router in close proximity to the roof mounted antenna. For best performance, only use the antennas standard 0.8m coaxial cables.

This means, once you have a suitable location for the router inside the vehicle, you must also ensure there is a suitable space on the roof to position the antenna in close proximity to the router. For example, if you would like to position your router in an overhead cupboard, we recommend mounting the antenna directly above the cupboard space.

Roof Antenna Position

We recommend leaving 30cm gap from obstacles around the antenna to avoid interference issues and mounting on a horizontal flat roof.*

Router Wi-Fi Antenna Space (Ref page 10)

The internal router can be mounted in a horizontal or vertical orientation. However, bear in mind that the Wi-Fi antenna must be vertical for maximum performance. You must leave enough space for this.

Power Supply

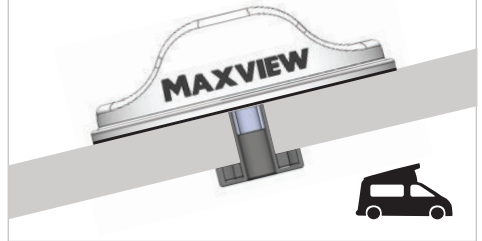
The router comes with 12V cigarette adaptor. You should ensure your router power supply can reach your preferred power source.

*Sloped Roof (Pop Top/Campers)

Although we always recommend a flat installation to maximise Antenna performance. In some installations you may find that you need to install your Roam 5G on an incline.

This is useful for an Elevated Roof (Pop Top) installation where you may use your Roam 5G with both the Roof flat and at an incline.

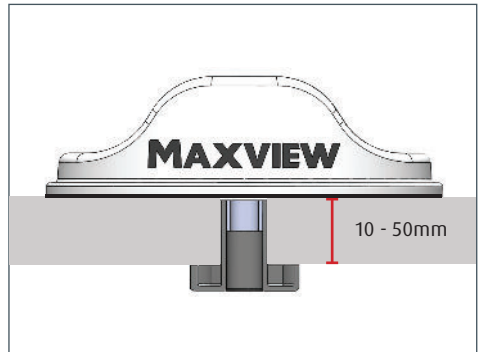
We highly recommend that when installing the Antenna on any incline you test the Roam 5G before installation in a horizontal position and again in the incline position to satisfy yourself of the performance.



Important Antenna Installation Information



1. The 3M seal provides a permanent installation. The adhesive is extremely strong and the antenna is not designed to be removed. Please ensure you are completely happy with your antenna's position and orientation before installation.



2. The Roam 5G antenna is designed to be mounted directly to a horizontal, flat and smooth surface such as GRP (Glass Reinforced Plastic) with the coaxial cables passing directly through the roof underneath the centre of the antenna. The standard installation is designed for roof thicknesses from 10mm up to 50mm.

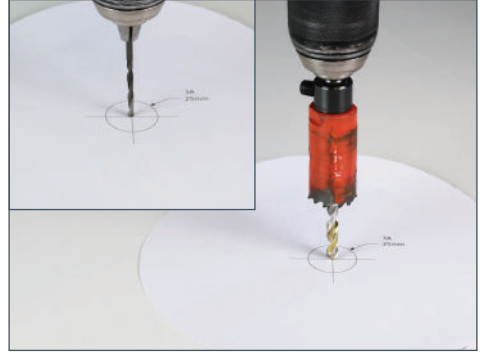
If this does not suit your installation, please see our mounting accessories (page 4) for a more suitable mounting option.

Fitting the Antenna

These instructions are for the standard through-the-roof installation as supplied.



1. Once you have a suitable position for the antenna, cut out the supplied template. Use to mark the 25mm centre hole position and mark the outside of the antenna.

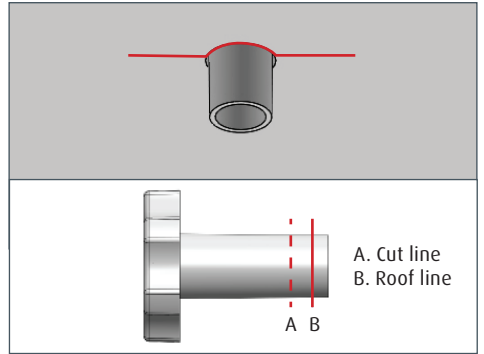


2. At the marked centre position, drill a 2.5mm pilot hole through the roof. Use a 25mm hole saw to drill out the centre hole through the roof.

Tidy up the hole to remove swarf and sharp edges.



3. Use the Antenna clamp to gauge the depth of the roof. The best way to do this is to sit the Antenna clamp upside down through the hole. Then, from the inside, mark on the clamp where the clamp passes through the ceiling and into the vehicle.

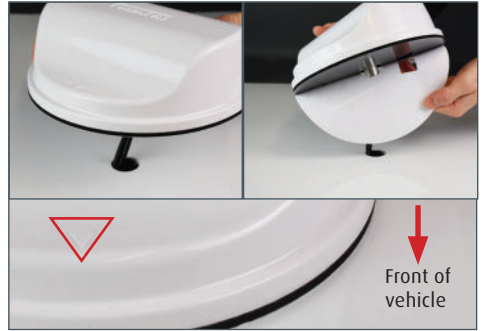


4. Remove the clamp and cut the clamp shaft to the correct length. The correct length for your installation will be the roof depth minus 3mm. This will ensure the clamp does not bottom out on the antenna when tightened.

E.g. If roof depth is 30mm. The clamp shaft should be cut 27mm along the shaft.



5. Clean the surface where the antenna will be installed, ensuring it is free from debris and grease.



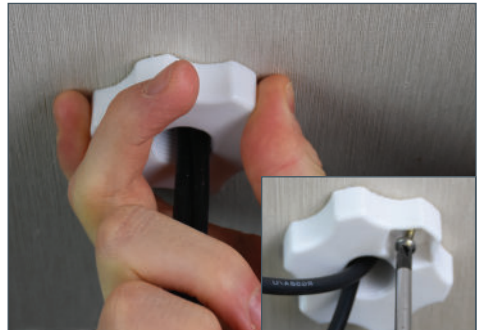
6. Pass the cables through the hole and remove the self-adhesive backing from the 3M seal. Pass the cables through the roof and position the antenna with the embossed arrow facing the front of the vehicle and the outside edge of the antenna aligning with the marks added earlier.



IMPORTANT - Ensure the position of the antenna is central to your markings, as once stuck down, the antenna is not designed to be removed.



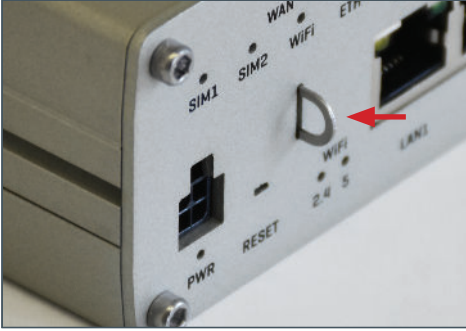
7. Press firmly around the edges of the antenna to ensure a watertight seal has been achieved.



8. From the inside of the vehicle, attach the clamp and turn clockwise onto the thread protruding from the bottom of the antenna. Continue to turn until the clamp is compressing the seal underneath the antenna.

9. Once in position, use 1 x No.6 Screw to secure the clamp in position.

Inserting Sim Card

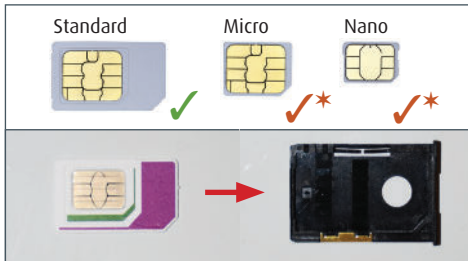


1. Remove the supplied Pin located at the bottom of the router.

Please note your Pin maybe located in the included SIM Card Adaptor Pack instead.



2. Use this pin to firmly press on SIM eject button. This is located next to the SIM slot. It is not necessary to apply force to the SIM tray itself. This may damage the router.



3. Remove the SIM tray and lay the standard size SIM card flat with the metal chip face facing up. Ensure it is in the correct orientation and sitting completely flat in the holder.

* You can convert a Micro or Nano SIM Card to the standard size using the SIM Card Adaptor Kit included.



4. Insert the SIM tray back into the router. The metal chip should still be facing upwards and the SIM text on the front of the tray should be the correct way up. The tray should push into the slot without resistance, until it is fully inserted.

The SIM is now inserted.

Router Installation

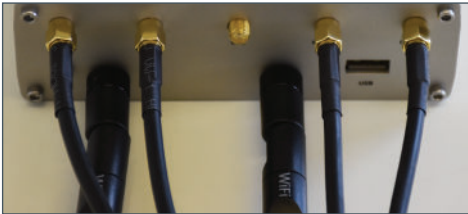


1. Position Router Bracket and mark hole positions. Depending on material, drill a pilot hole or use a bradawl. Mount the Router Bracket to the surface using the 4 x No.6 Screws provided.



Note: Make sure the 'Maxview Logo' is horizontal and in the correct orientation.

IMPORTANT - Ensure the router is not mounted too close to other electrical devices, as this may prevent it from working or negatively impact performance.

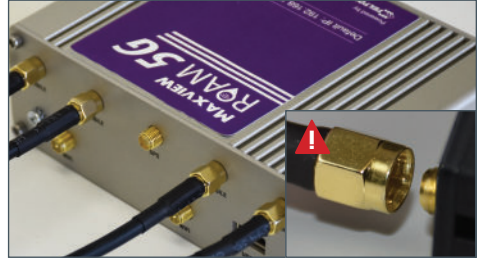


3. Attach the Wi-Fi antennas to the bottom connectors. These are marked 'Wi-Fi'. These should be positioned so they are vertical.



5. Connect the 12V power lead or the 230V PSU (available to order separately) and route the lead to your power source.

6. The installation is now complete. You may wish to tidy up cable routing to suit your installation.



2. Attach the antenna coaxial cables to the top 4 connectors. These are marked 'mobile'. Note the order of the cables does not matter.



IMPORTANT - To prevent damage take care to ensure the centre pins are aligned before attaching the connector.



4. Place the router into the mounting bracket. The router can be removed from the bracket at any time to change the SIM card as required.



The optimum positioning for the Wi-Fi antennas on the Roam 5G Router is pointing directly upwards. However, the unit can be fitted with the antenna at a 45° or 90° angle, or pointing downwards or forwards.

This may have a small detrimental effect on the signal strength, which will become more significant at greater distances from the router. However, for leisure vehicle applications, this will likely only cause a negligible drop in performance.

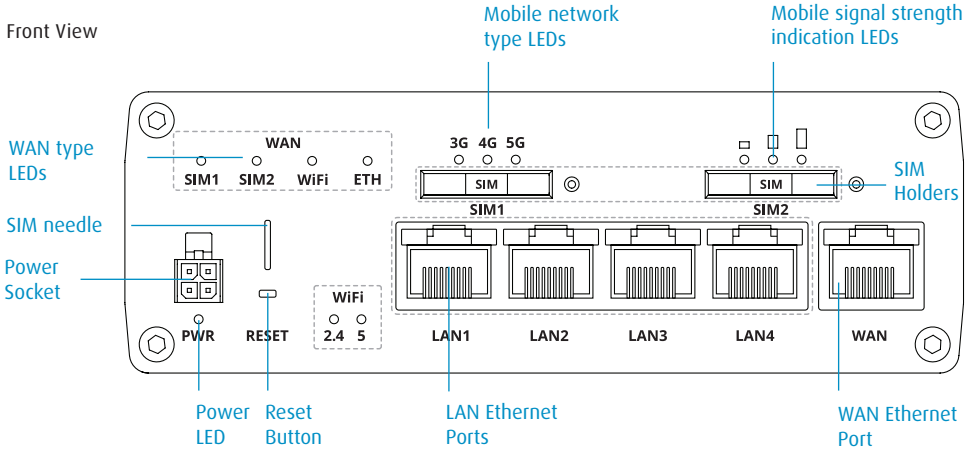
Router

Getting Connected and Basic Functions

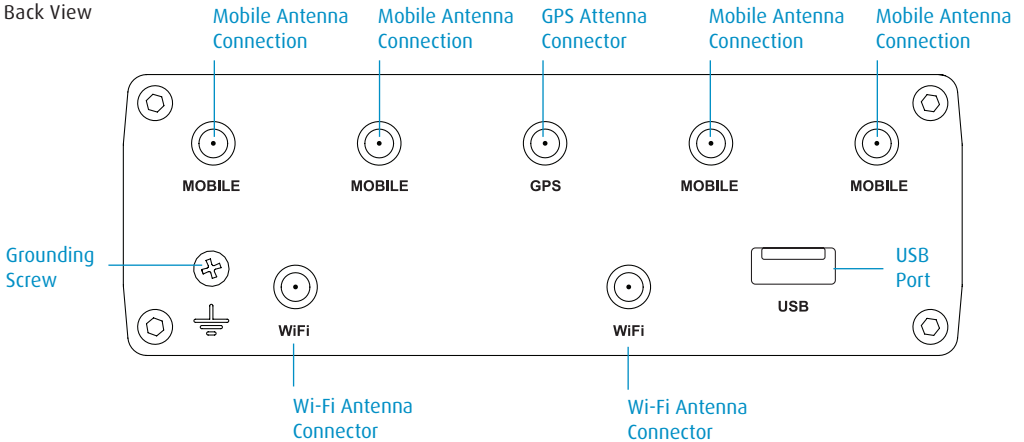


Get to know your Router

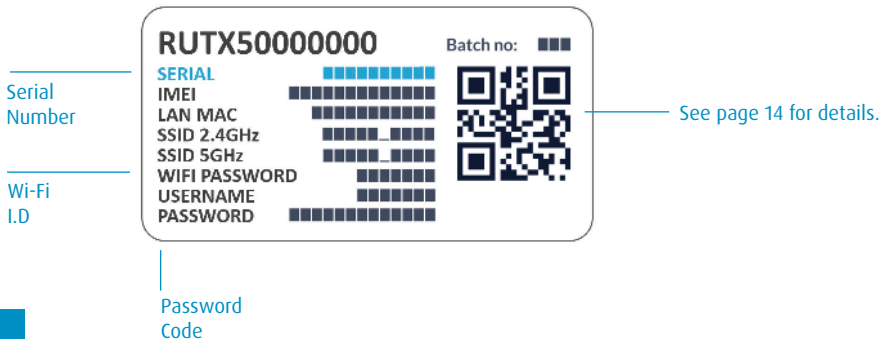
Front View



Back View



Credential Router Sticker (Located on the reverse of the router).



Getting Online

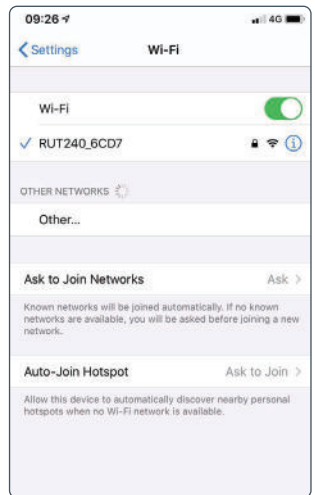
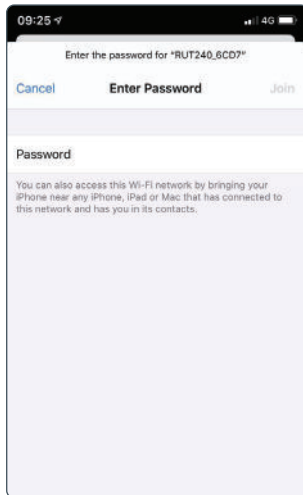
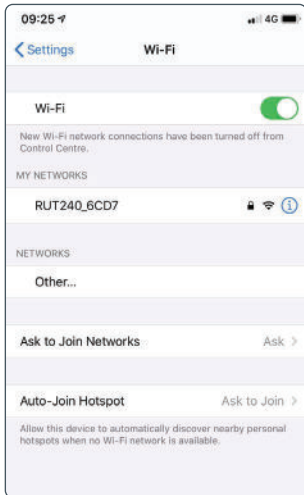
Now your Roam 5G is installed and you have inserted the SIM card, it's time to get connected. To do this, you will need to be using a device which can connect to a Wi-Fi network such as a smart phone, Smart TV, tablet or laptop.

1. Turn on router and allow 2 to 3 minutes for the router to boot.

When ready, the router name will be visible in your devices Wi-Fi settings. There are 2 methods of connecting your device to the routers Wi-Fi network.

- Option A - Using device settings
- Option B - Using QR Code

Option A: Device Settings




1. Navigate to your devices Wi-Fi settings and view available Wi-Fi networks.

2. The Roam 5G Router will be displayed as RUT_EE46_2G. The last 4 characters will be unique to your Roam 5G Router.

If more than one Roam 5G is being used within close proximity, the Wi-Fi network name is displayed on the back of the router.


See page 12 for code.

3. Once you select this network, you must enter the password. This is also printed on the back of the router.

 **Note:** Password is case sensitive.

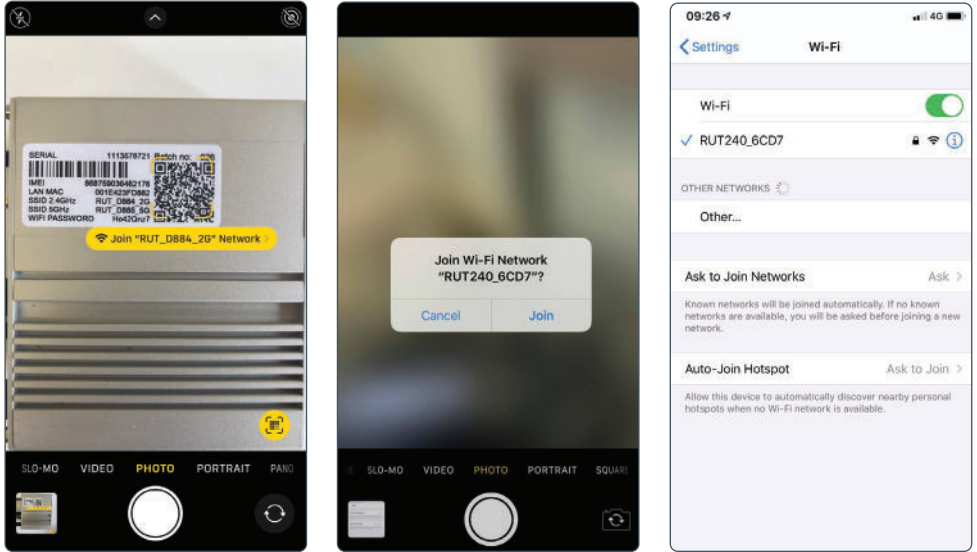
See page 12 for code.

4. You are now connected and can begin using your Roam 5G.

 **Note:** Two WiFi networks of the router are displayed. The 2.4GHz network is designed for range the 5GHz network is designed for data throughput.

Option B: QR Code

1. If your device is able to read QR codes (Android 9 or newer and iOS 11 or newer), simply point your device camera at the QR code on the back on the router. When prompted, select 'join'. Your device will automatically connect to the Roam 5G Router.



That's it! You are now connected to the secure Wi-Fi hotspot of your Roam 5G Router.



The Wi-Fi network name and password will remain the same as those listed on the back of the router. The above processes can be repeated to connect up to 150 devices to the same network simultaneously.



Please note:
With the QR code on the back of the router, it is only possible to connect to the 2.4GHz network. To connect to the 5GHz network, you must enter the Wi-Fi password on the back of the router using the keypad of your device.

Connecting to a device using an Ethernet Cable

If your device does not support Wi-Fi or you would like to maximise the reliability of your connection, you can access the Roam 5G internet connection by connecting the Ethernet Cable between the LAN ports on the router and your device. Possible applications for this include some Smart TV's and desktop computers.

To do this, simply connect the Ethernet cable to the router and your device. If necessary, navigate to your devices LAN settings and follow the prompts.

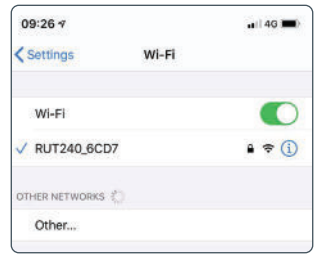
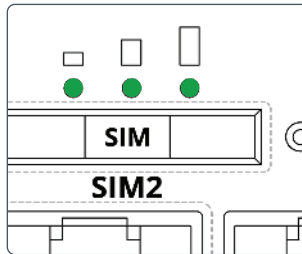


When the ethernet is in use other devices can still connect to the router using Wi-Fi.

Factory Reset

At any time, the Roam 5G Router can be reset to its factory settings using the reset button on the side of the router. This will restore all settings on the router, including:

- Router SSID (network name) and password to those listed on the back of the router.
- Web User Interface to the username and password listed on the front of the router.
- All custom settings will be deleted, including any Wi-Fi connections you may have added.



1. To complete the factory reset, press and hold down the reset button with the supplied pin needle.

2. Hold for 6 seconds, until all of the green LEDs on the side of the router are on.

Once released all 3 signal strength LED's will flash together.

This indicates the start of the reset process.

3. Allow 3 minutes for the router to reset. Once reset the Wi-Fi network will be visible and available to connect to.



Note: If you don't hold long enough, the router will restart but not reset.

Router

Advanced Functions and Changing Router Settings

For most users changing these settings is not necessary. We only recommend accessing and changing settings in the Web User Interface if necessary and we do not recommend changing settings which have not been outlined in this booklet.



Did you know?

The functions in this section can be completed easier and faster using the Maxview Roam 5G App.

See the Roam 5G App instruction manual for more information.



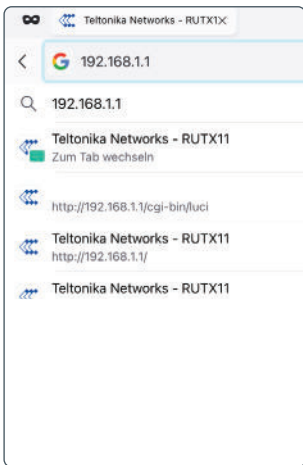
Advanced Functions and Changing Router Settings

All of the settings and functionality of the Roam 5G Router are changed using the Web User Interface. This can be accessed using a browser when your device is connected to the Roam Wi-Fi network. The Roam 5G Router is very powerful and there are many settings in here which can be adjusted to suit your requirements.

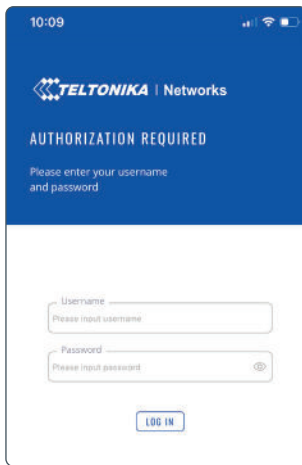
For most users, changing these settings is not necessary. We only recommend accessing and changing settings in the Web User Interface if necessary and we do not recommend changing settings which have not been outlined in this booklet.

Connecting to the Web User Interface


 When using the Web UI, we recommend using the Google Chrome browser.

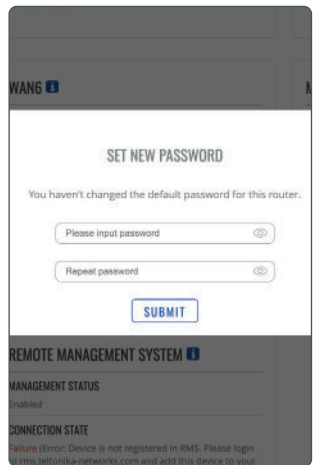


1. Whilst connected to the router, browse to **192.168.1.1** in your web browser. This can be done on any device with an internet browser and a connection to the Roam 5G Router.




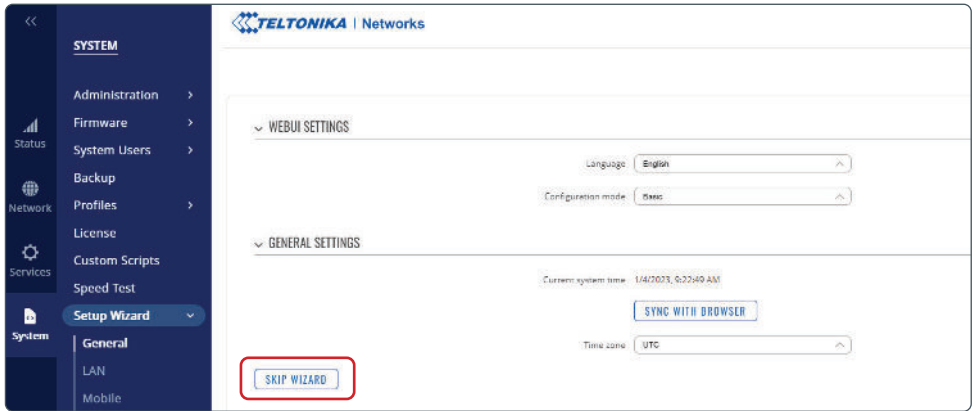
2. You will first be prompted to enter the Web User Interface user name and password. The default details are printed on the rear of the router.

 These are different to the Router Hotspot SSID and Password.



3. On first use, you will be required to update the password. The new password must be a minimum of 8 characters and contain at least one upper case letter, one lower case letter and one number.

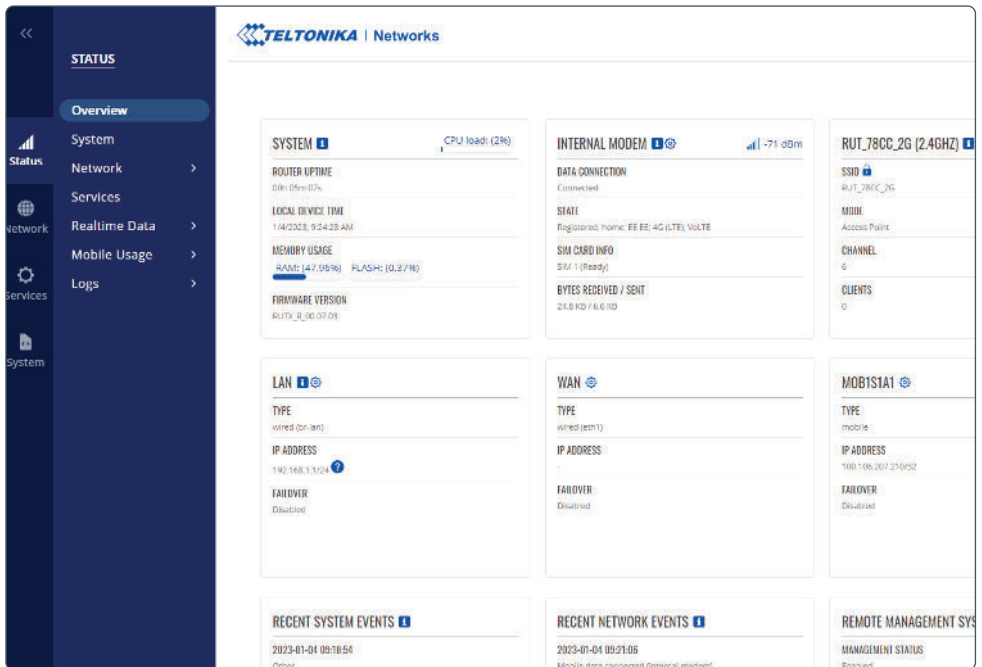
 After completing this change, the original credentials listed on the front of the router will no longer work. If you forget your password, you will need to complete a factory reset to reset to the original credentials.



4. When accessing the Web User Interface for the first time, you will be offered the chance to use the Set Up Wizard. This can be used to set up the router's most relevant parameters, such as changing the hotspot username and password.



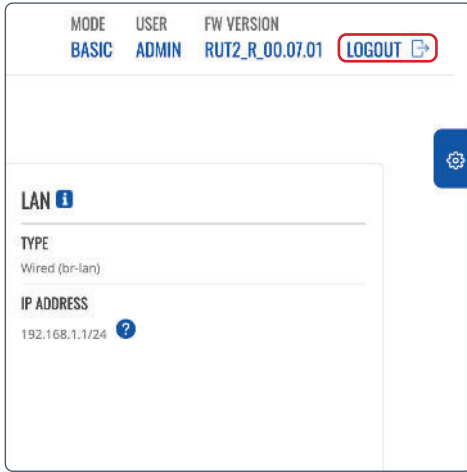
Competent users can navigate through other settings, however we recommend skipping the Set Up Wizard as it is not strictly necessary to change any of these settings. For most users we recommend skipping the installation by selecting 'Skip Wizard'.



5. You will now have access to the router's dashboard. This page displays useful data such as mobile, system and wireless data. Unless necessary, we do not recommend changing any of the dashboard settings.

Logging out of the Web User Interface

Once you have finished using the Web User Interface, you should log out. We recommend doing this every time you have finished using the Web User Interface.



1. Select '**Log Out**' in the top right hand corner and confirm you wish to log out.

2. Once you have logged out you can now close the web browser tab and continue to use the Roam 5G.

Router

Changing the Primary Internet Source from 3G/4G/5G to Wi-Fi



Did you know?

The functions in this section can be completed easier and faster using the Maxview Roam 5G App.

See the Roam 5G App instruction manual for more information.



Changing the Primary Internet Source from 3G/4G/5G to Wi-Fi

In some instances during your travels, you will be in a location where there will be a usable Wi-Fi connection which can be used as a source, instead of 3G/4G/5G. This means you can access the internet using the same Roam 5G hotspot, however the source of the connection will be from another Wi-Fi hotspot.

To use an existing Wi-Fi hotspot, you will need to ensure:

- You know the password of the source Wi-Fi.
- The source Wi-Fi does not require access through a Captive Portal. See page 35 for more information on Captive Portals.

Using the web browser to set up this feature requires some set up time, however this only needs completing once as the Wi-Fi source details will remain in the router and the router will automatically switch to using this Wi-Fi source instead of 3G/4G/5G when it is available. Because of the initial set up required, we recommend using this feature if you will be spending considerable time at this location or using significant amounts of data.

If you will only be at the site for a short period, we suggest you continue to use the 3G/4G/5G connection or connect directly to the Wi-Fi connection with your Wi-Fi enabled device.



The speed and reliability of the Wi-Fi connection you receive will only be as good as the source it is connected to. We therefore recommend you confirm the network is suitable for your requirements before carrying out the set up process. This can be done using a separate device with Wi-Fi connectivity, such as a mobile phone, laptop or tablet.



It is easier and faster to switch between 3G/4G/5G and Wi-Fi using the Maxview Roam 5G App. See the Roam 5G App instruction manual for more information.



1. From the Web User Interface Dashboard, select '**Network**' at the top of the page. When the drop down menu appears, select '**Wireless**' then click Scan under '**WIFI 2.4GHZ**' if you wish to have a standard Wi-Fi network. Or under '**WIFI 5GHZ**' if you wish to connect to a 5GHz WIFI network.

WIRELESS SCAN RESULTS

SIGNAL	SSID	CHANNEL	MODE	BSSID	ENCRYPTION	
59%	Maxview	1	Master	00:1D:AA:3E:AD:A4	mixed WPA/WPA2 PSK (TKIP, CCMP)	JOIN NETWORK
55%	Guest	1	Master	02:1D:AA:3C:AD:A4	mixed WPA/WPA2 PSK (TKIP, CCMP)	JOIN NETWORK
55%	Maxview	1	Master	00:1D:AA:3E:AD:9A	mixed WPA/WPA2 PSK (TKIP, CCMP)	JOIN NETWORK
51%	Guest	1	Master	02:1D:AA:3C:AD:9A	mixed WPA/WPA2 PSK (TKIP, CCMP)	JOIN NETWORK
54%	RUT240_NEW_MENU	1	Master	02:1D:42:43:E47E	WPA2 PSK (TKIP, CCMP)	JOIN NETWORK
22%	Maxview	1	Master	00:1D:AA:3E:AD:98	mixed WPA/WPA2 PSK (TKIP, CCMP)	JOIN NETWORK
56%	Maxview	1	Master	00:1D:AA:3E:AD:96	mixed WPA/WPA2 PSK (TKIP, CCMP)	JOIN NETWORK

2. Next the wireless connection you wish to connect to click 'Join Network'

JOINING NETWORK: MAXVIEW

WPA passphrase

Name of the new network

Create / Assign firewall-zone **wan**

SUBMIT

3. Enter the password for the network and network name if you choose to do so. Then click 'Submit'

MAXVIEW INTERFACE CONFIGURATION

Enable

Mode **Client**

ESSID **Maxview**

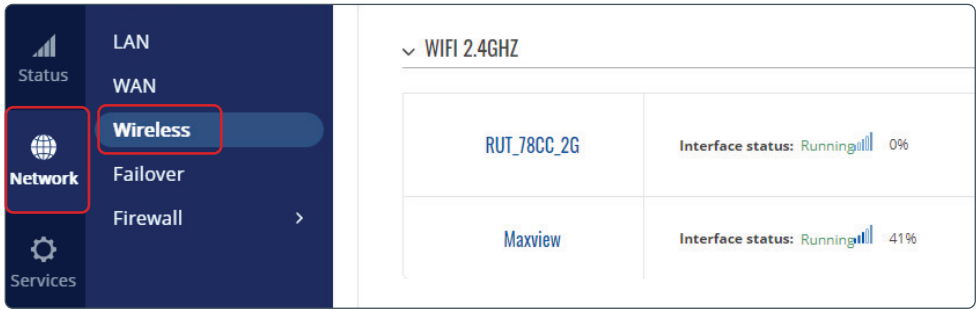
BSSID **00:1D:AA:3E:AD:A4**

Network **Maxview**

Password *********

SAVE & APPLY

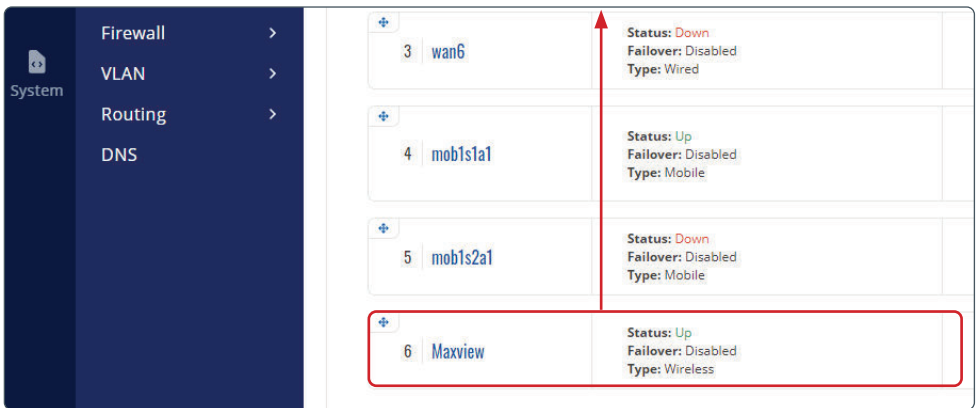
4. Click "SAVE & APPLY"



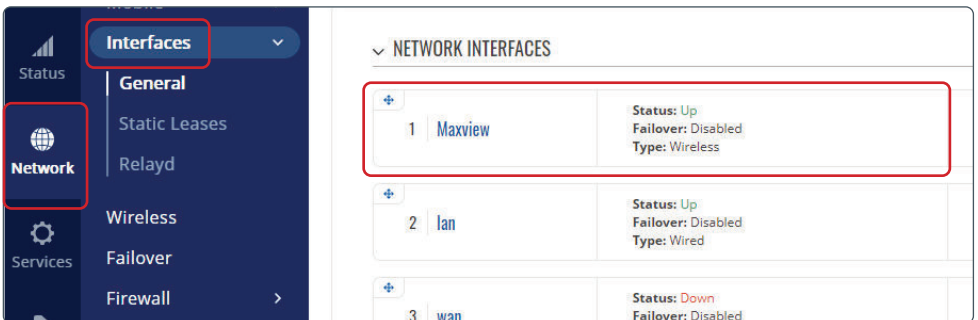
5. Your router will now connect to your chosen wifi network. However the connection your router uses for to connect to the internet will depend on your WAN configuration setting,



6. Click 'Basic' to switch to 'Advanced'



7. To change connection priority drag and drop each connection in the order desired.

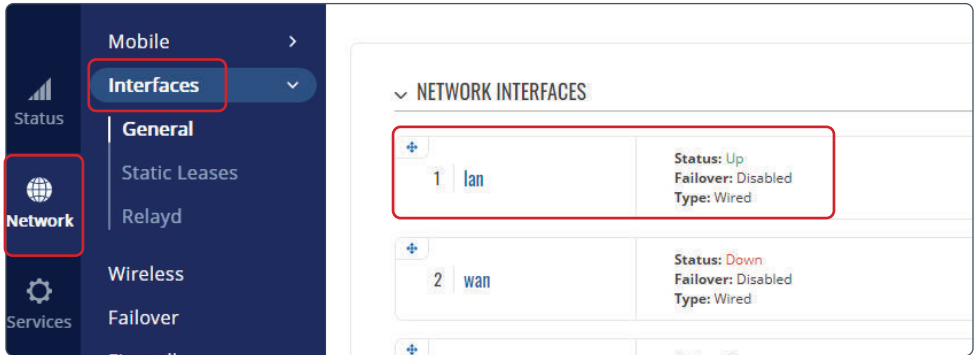


8. Then save and apply.

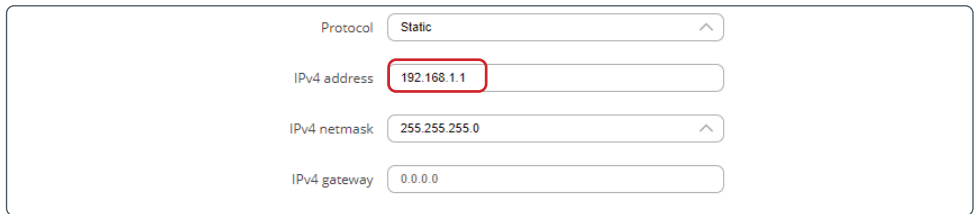
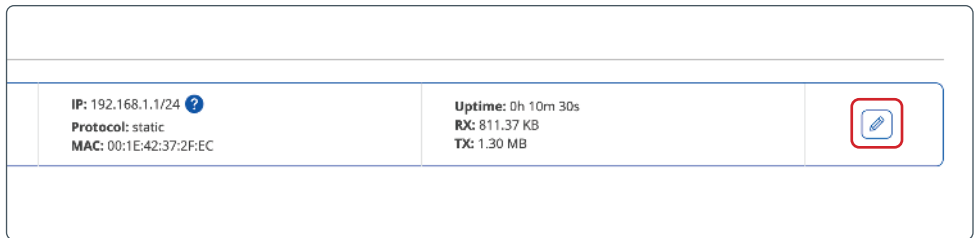
Changing the Routers LAN IP Address

In some cases, the LAN IP Address of the Roam 5G Router will be the same as the source Wi-Fi IP address. If this is the case, using Wi-Fi as the internet source will not work.

To fix this, we must change the LAN IP Address of the Roam 5G Router. To do this, follow the steps below:



1. From the dashboard, select 'Network' and then 'Interfaces'.



2. In the 'IP Address' box, change the IP address from 192.168.1.1 to your desired value.
3. It is not necessary to change any other settings. Select 'save' to add these settings and return to the dashboard.
4. After completing this change, the Roam 5G Wi-Fi will reboot and you may temporarily lose connection to the Wi-Fi. Once restored, it should not be necessary to reconnect your devices.

Note: The LAN IP Address is used to access the Roam 5G Router web user interface (WebUI). Therefore, by changing the LAN IP Address, this will also change the address which is typed into the web browser to access the router WebUI. Whatever address is used for the LAN IP address must be used.

Router

Other Functions



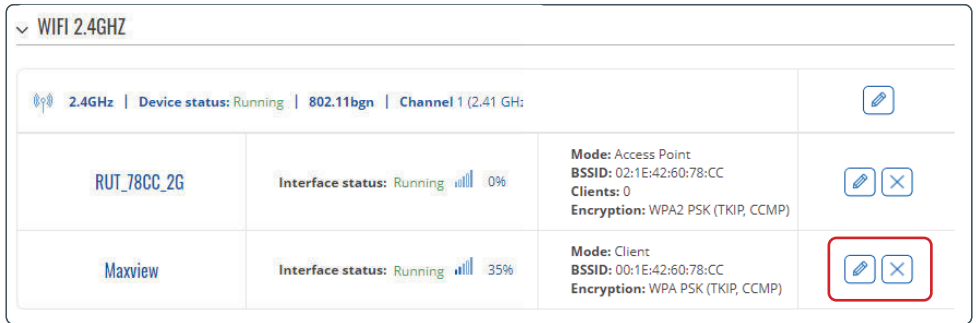
Did you know?

The functions in this section can be completed easier and faster using the Maxview Roam 5G App.


See the Roam 5G App instruction manual for more information.



Managing and Removing Wi-Fi Connections



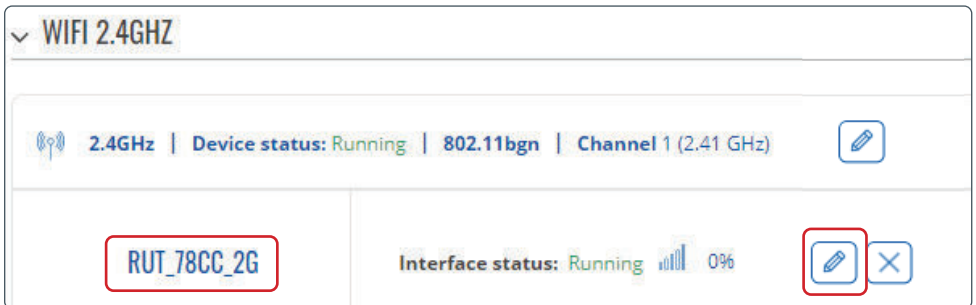
1. Navigate to 'Network' and then 'Wireless'. From here, you can then view and manage the most recent Wi-Fi connection listed under the Wireless Station Mode heading. This includes updating the password or removing it completely if it is no longer used.

 The Router will store the details of the most recently used Wi-Fi connection only. See page 21 to input a new connection to replace it.

Changing Wi-Fi SSID (name) and password

After completing this change, the original credentials listed on the back of the router will no longer work. If you forget your password, you will need to complete a factory reset to reset to the original credentials.

 Completing this change will remove all devices which are currently connected to the router hotspot. These will need to be reconnected using the new username and password.



1. From the Web User Interface dashboard, select 'Network' and then 'Wireless' from the top menu.

2. You will then see a list of the Wireless Access Points (hotspots) the router is creating. As standard, this will be for 2.4GHz and one for 5GHz. Select 'pencil icon' on the relevant access point.

▼ RUT_78CC_2G INTERFACE CONFIGURATION

GENERAL SETUP

ADVANCED SETTINGS

WIRELESS SECURITY

MAC-FILTER

Enable off on

Mode Access Point

ESSID RUT_78CC_2G

Network RUT_78CC_2G

Hide ESSID

SAVE & APPLY

3. You will now be transferred to the 'Interface Configuration' tab under the 'General Set Up' tab. In the ESSID box, input a new name (ESSID) for your router.

4. Click 'WIRELESS SECURITY' and input new password in the 'Password' box.

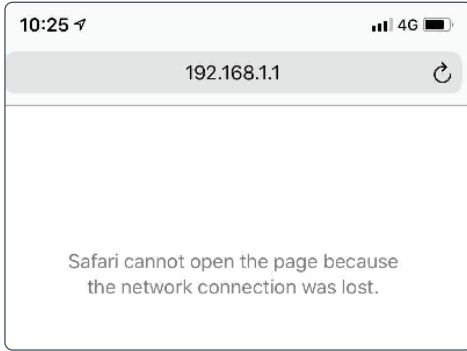
5. Once completed, select 'SAVE & APPLY'.



It is important this is a strong password to ensure your hotspot remains secure.

We recommend using a combination of uppercase characters, lowercase characters, numbers and symbols. You should also avoid common phrases such as 'password' and '12345'.

Keep your password safe as it will be required to connect devices to the new Wi-Fi network.



6. When the changes are complete, you will see a web browser error page and your device will no longer be connected to the router. Because the Wi-Fi network has changed, the router will automatically remove all devices, including the one you are currently with.

Your new hotspot name and password is now set up.

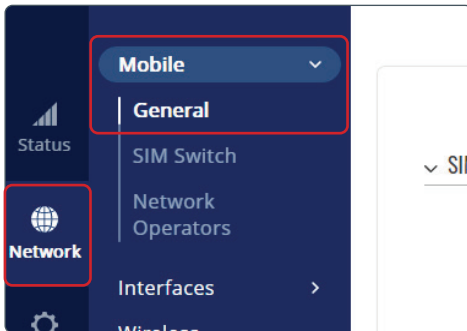
Entering SIM PIN

For security, some SIM cards have a 4-8 digit PIN activated. If your SIM is PIN protected, you will need to input the PIN number into the Web User Interface before it can be used.

Please note, if you enter the incorrect PIN 3 times, your SIM card may be blocked. If this happens, you will need to contact your SIM card network provider.

If your SIM requires a PIN, the Web User Interface will display SIM (locked). If it does not require a PIN it will display SIM (ready).

To enter the PIN, follow the below steps.

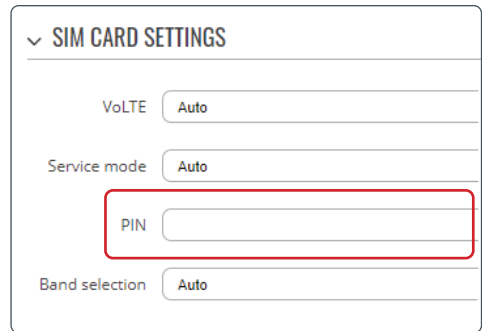
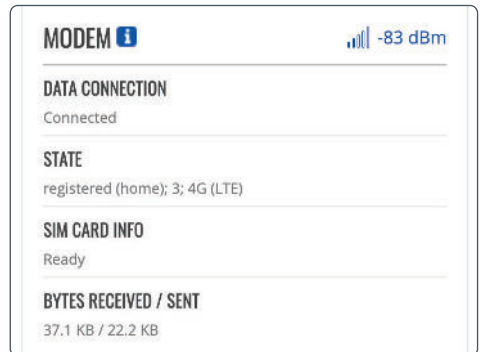


1. From the Web User Interface, select **'Network'** and then **'Mobile General'** from the top menu.



7. You can now navigate to your device's Wi-Fi settings and view available Wi-Fi networks. The Roam router hotspot will be displayed as your chosen name. Select this network and enter the new password.

This step should be repeated for any device you wish to connect.



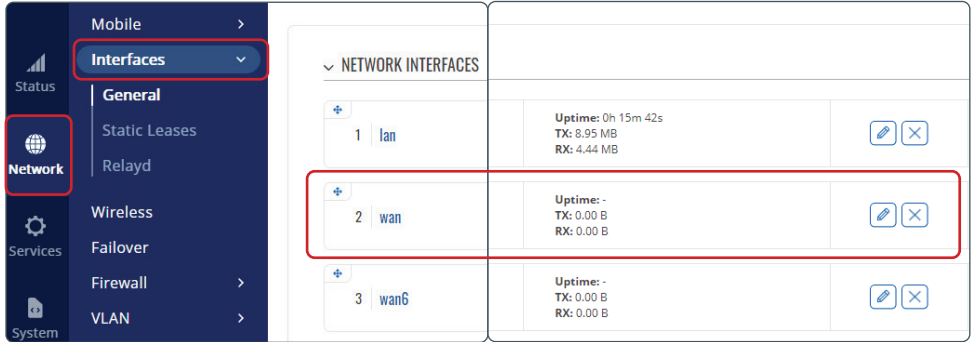
2. In the **'General'** tab, insert the PIN in **'PIN'** box. Once entered, select save.

Controlling Data Usage

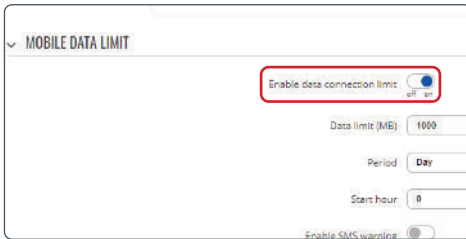
This function can be used to sync your SIM card's data allowance with the router. This configuration will not reset when the router is turned off so can be used to monitor usage and to understand when you are nearing your maximum allowance.

Warning:

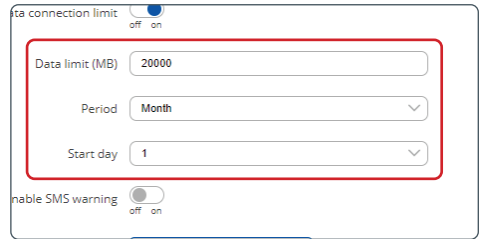
This should be used as a guide only. For exact usage and allowance usage, please contact your service provider.



1. From the Web User Interface, select '**Network**' and then '**Interfaces**' from the menu. Click the '**Edit**' button on the internet connection (i.e the pencil icon).



2. Under '**Mobile Data limit**' click on the enable data connection limit and turn **ON**.



3. Change the Data limit value to your desired setting (i.e 2000mb) and period and month. Then click '**Save & Apply**'.

4. SMS warning texts can also be set up in the same way, however this will send a warning text when you are nearing your allowance limit.

Other Functions

The Roam 5G Router offers a vast number of functions. These include features such as SMS remote control, accessing SMS messages and custom configuration. These features are advanced and should only be used by a competent user.

To bring you the Roam 5G Router, we have partnered with Teltonika. Teltonika have a vast amount of information available for all function of the router and Web UI on their Wiki Support Site. This can be accessed at: <https://wiki.teltonika-networks.com/view/RUTX50>

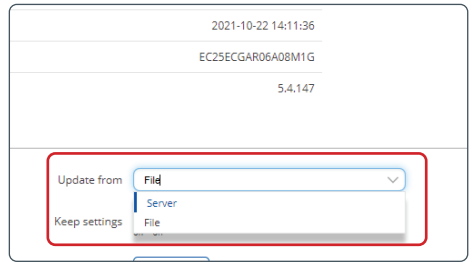
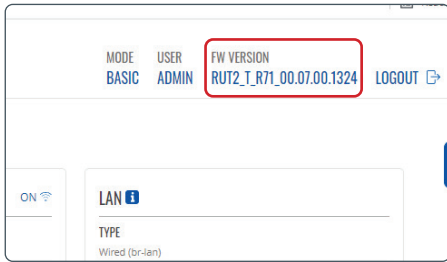
For more information on the function available and instructions on how to use this, please refer to the Teltonika Wiki Support Site.

Router Firmware Update

From time to time, new firmware will be available to download onto the 5G Router. It is not essential that the latest firmware is on the router, however we recommend keeping firmware up to date to ensure you have access to new feature releases and the latest security updates.

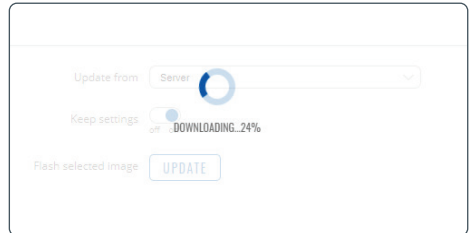
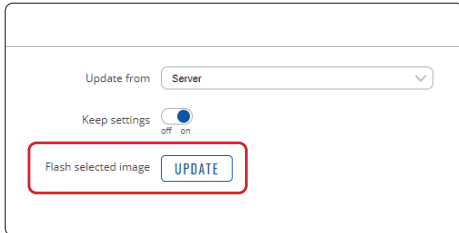
A list of the latest firmware changes and the associated features can be found at https://wiki.teltonika-networks.com/view/RUTX50_Firmware_Downloads

As long as the router has a reliable internet connection, the firmware update can be done from the Teltonika Web User Interface. The time it takes will depend on your connection speed, so we recommend using a fast connection to minimise the time required.



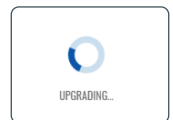
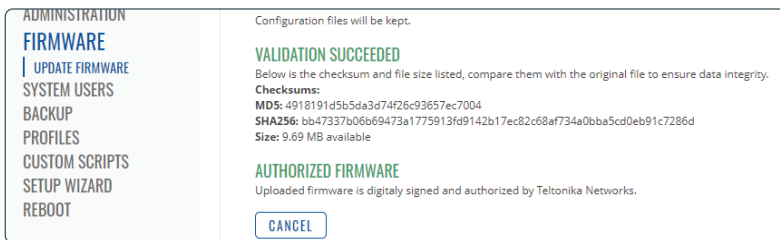
1. To find out if your software is up to date, click the 'FW Version' tab in the top right hand side of the dash board menu.

2. If a new version appears and is available click the update from 'server' from the drop down options.



3. Press 'UPDATE'.

4. The new firmware will now begin to download.



5. You will receive a validation message once the firmware downloads successfully. Next click the 'PROCEED' button and an upgrading message will then appear. Once upgrading is complete you will be taken back to the login window.

Your firmware update is now complete.

Additional Information

General Safety Warnings

Read these instructions carefully and become familiar with your Maxview product. Understand the application, limitations and any hazards involved with the installation and operation. Failure to follow all instructions may result in damage to your vehicle and/or serious injury. Maxview declines all responsibility in the event of incident or accident if they are due to a non observation of the installation instructions or the way the product is used.

No modifications to the product are permissible.

Installation

- Always consider the additional height the product you install adds to the vehicle
- Always follow manufacturer's operating instructions before using tools and equipment.
- Take care when working at heights. Keep work area clean and tidy to avoid trip hazards
- Use creeper boards where necessary to ensure roof construction can support your weight
- All electrical work should be carried out by a competent person

Operation

- The maximum speed of vehicle with product mounted on roof is 81mph (130km/h)

Servicing & Support

- Any inspection or repair must be carried out by Maxview or an appointed representative of the manufacturer
- No regular maintenance required on the product
- Do not dismantle product
- Do not use solvent or abrasive cleaning agents on the product
- Only use a suitable mild detergent to clean the product
- Do not pressure wash the product
- We recommend you check the mechanical integrity of a roof mounted product at least once a year
- If in the event that you do experience a problem with the product, call Maxview Customer Service +44 (0)1553 811000

Maintenance

The Roam has been designed to be maintenance and trouble free. For optimum signal strength, keep the cover clean from dirt, bugs, and other debris. Periodic washing of the top cover with mild soap and water is recommended.

1. Do not remove the cover of the antenna as it will void the limited guarantee.
2. Never power wash the antenna. Keep the enclosure clean from dirt, bugs, and other debris by hand washing with mild soap and water.

DO NOT USE SOLVENTS TO CLEAN THE ROAM. DO NOT DROP OR EXPOSE TO JARRING MOVEMENTS.

Terms and conditions

In no event shall Maxview be liable for any indirect, incidental or consequential damages from the sale or use of the product. This disclaimer applies both during and after terms of the guarantee. This does not affect your statutory rights. The Roam 5G antenna is designed for permanent installation and is not designed to be removed or serviced. Whether the Roam is in warranty or not and whether the cause for removal is our fault or not, we are not responsible for the safe removal of the Roam 5G antenna. We will not be held responsible or liable for any damage done to the Roam or other property whilst removing the antenna, regardless of the reason for removal. By selling a Three™ SIM card we are acting completely independent of Three™ and any information you supply or any contract you enter in to is your own choice. We will not be held liable for any costs incurred as a result of using Three™ services. Three™ is a trading name of Hutchinson 3G UK Limited. Data usage can be expensive. Although the Roam 5G does offer data warning and restriction warnings, this should be used as a guide only, it is not always completely accurate. For accurate data usage information, you should contact your service provider. We will not be liable for any costs incurred as a result of data usage using the Roam.

2 year guarantee

Every Maxview Roam Mobile 3G/4G/5G Wi-Fi System is thoroughly inspected and tested before leaving the factory, and is covered by the following 2 year parts limited guarantee from the date of original purchase.

Registering your product

As part of our commitment to our customers, we ask owners of our Roam 3G/4G/5G Wi-Fi Systems to register ownership. By registering products with the Maxview service database, we will have a record of the product purchase that will allow us to provide our customers with faster and improved technical support, notifications of software updates as well as many other benefits. Additional benefits do not affect your statutory rights as a consumer. Each product you purchase needs to be registered with us individually.

How do I register my product?

You need to register your product within 28 days of purchase. To register your roof mounted system go to the Product Registration: register.maxview.co.uk

You will need the model and serial number of your product, which can usually be behind the Router. This can also be found on your guarantee registration card. We recommend that you keep this instruction book and proof of purchase in a safe place. The instruction book is particularly useful to help you get the most from your product.

Has my product been registered?

Once you have registered your product you will receive an email confirming your registration.

How do I claim on my guarantee?

In the unlikely event that you have an issue with your product please contact our Customer Services Team on +44 (0) 1553 811000 or email support@maxview.co.uk. You will need to retain your proof of purchase as we will ask for this along with the model and serial number of your product.

In no event shall Maxview be liable for any indirect, incidental or consequential damages from the sale or use of the product. This disclaimer applies both during and after terms of the guarantee. This does not affect your statutory rights.

Due to expanding and changing telecommunications market, Maxview cannot be held responsible for changes made to communication services. Software updates to address such issues are not covered under guarantee.

Terms and Conditions of the Guarantee

- a) Your guarantee starts from the date you purchased your item. Your guarantee will be valid from date of manufacture if you are unable to provide a proof of purchase.
- b) A guarantee authorisation must be obtained from Maxview prior to work commencing.
- c) Maxview is responsible for the cost of a replacement part if the original part is determined to be defective under the terms of the guarantee.
- d) Any replacement parts required will be supplied, by return, on receipt of the faulty part.
- e) Any work requiring replacement parts will only be sanctioned on receipt of proof of the broken part. The customer is responsible for the cost of replacement parts after the guarantee period has expired.
- f) Our guarantee is "Back To Base." No travelling costs will be paid.
- g) Parts that suffer breakdown and/or failure due to flooding/water ingress or abrasive cleaning caused by solutions and/or Pressure Washers are not covered under our guarantee.
- h) Our guarantee does not cover installation or external wiring.

This guarantee also does not apply where:

- The product has been abused, misused, improperly installed or improperly maintained.
- The product has been installed without the use of a Maxview mounting bracket designed for the product.
- Repairs have been made or attempted by others that are not certified by Maxview to do such repairs.
- Repairs are required because of normal wear and tear.
- Alterations have been made to the product.
- The antenna unit has been opened without authorisation.
- Damage has been caused by power washing.
- Circumstances beyond the control of Maxview cause the product to no longer operate correctly.
- Customer is not the original owner.

Troubleshooting and FAQ's

1. How can I test the speed of my connection?

There are various apps available that can be used to measure your upload and download speed. We recommend the Ookla speed test app, available from the App Store and Google Play Store. Before running the test, make sure your device is receiving internet through the roam router.

2. What Download speed do I need to watch TV through my Roam 5G?

As a general rule of thumb, you will need 3Mbps to stream standard definition video and 5Mbps to stream high definition video.

3. My phone is connected to the Roam 5G but I don't have any phone signal?

The Roam 5G creates a Wi-Fi hotspot which can be used to provide a Wi-Fi connection to your device. This means it can be used for all features on your device that use an internet connection. This includes Facetime, WhatsApp and Wi-Fi calls, but will not include traditional voice calls and SMS text messages.

4. I am connected to the Roam 5G with a good Wi-Fi signal but nothing is loading?

If you are near to the Roam 5G Router, it is likely that you will have a strong Wi-Fi connection to the router. However, this doesn't mean that the Roam 5G is receiving a strong signal from the 3G/4G/5G network. We suggest trying a different location and ensuring you still have data on your SIM card.

If you are using the router to connect to an existing Wi-Fi hotspot, check the Wi-Fi source is reliable and has a good download speed before connecting the Roam 5G to it.

5. Why has my phone got faster internet speed than my Roam 5G?

The Roam 5G has been optimised for remote and rural locations where our customers tend to travel. Using the router's 3G/4G/5G capabilities in urban locations where the 3G/4G/5G signal is strong, you should still be able to receive a fast internet speed (enough to stream HD TV). However, the Roam 5G performs best when 3G/4G/5G signal is limited, allowing you to use the internet when other devices can't.

6. I have forgotten my Wi-Fi password, what should I do?

You will need to carry out a factory reset. See page 15.

7. Where can I find more information about the advanced functionality of my router?

If this manual does not cover the function you wish to use, detailed step-by-step information on every function of the router is available at <https://wiki.teltonika-networks.com/view/RUTX50>

8. Is there an easier way to change the settings for my router?

Most router functionality can be controlled using the Teltonika App.

9. Does the Roam 5G work when my vehicle is moving?

Yes, when the Roam 5G is using 3G/4G/5G as the connection source (rather than Wi-Fi), the Roam 5G will work when you are in motion.

10. Why do I lose connection to my Roam 5G when I move in or out of range of the Wi-Fi source my Roam 5G is using?

The Roam 5G will automatically detect and connect to the Wi-Fi source you have set up in the Web User Interface. When the Roam 5G detects that this network has become available (or unavailable), the router will switch from receiving Wi-Fi to 3G/4G/5G (or vice versa). During this sequence, there will be a brief period where there is no signal available to the router. Because of this, some devices will disconnect from the Roam 5G hotspot. If this is the case, simply reconnect to the Roam 5G hotspot and you should be back up and running.

See page 24 to check how the Roam 5G router is using Wi-Fi or 3G/4G/5G to receive an internet connection.

11. I am revisiting a location where I have previously been connected to the Wi-Fi using the Roam 5G. Why doesn't my Roam 5G automatically reconnect?

When using an existing Wi-Fi hotspot as the connection source, the Roam 5G will only store the last Wi-Fi hotspot used. If you are revisiting a location which was not the most recent location used, you will need to visit the Web User Interface to input the new Wi-Fi source details. For more information on how to do this, see page 26.

If the location you are revisiting is the last Wi-Fi source the Roam 5G Router was set up with, whilst located within good range of the Wi-Fi source, try rebooting the router. It should now automatically connect.

If this does not work, it is possible that the password for the Wi-Fi source has changed. If so, you will need to log into the Web User Interface and update the password. See page 26 for instructions on how to do this.

12. Some buttons on the Web UI are not responding?

We recommend using the Google Chrome browser when using the Web UI. If you are using a different browser and experience problems, you can also try holding down the button you wish to select.

13. I have connected the Roam 5G Router to an existing Wi-Fi source, however I cannot receive the internet.

- It is possible that the IP Address of your Wi-Fi source is the same as that of the Roam 5G Router. This will cause this function to stop working. See page 24 for more information.
- If this change does not work, it may be that the Wi-Fi source you are connected to is slow or even unusable. You can try moving closer to the source. If this does not work, the Wi-Fi source may be too slow to use; the connection received through the Roam 5G Router is only as good as the source.

14. The 192.168.1.1 web address does not open the WebUI.

- Ensure the device you are connected to is receiving its Wi-Fi from the Roam 5G Router.
- Ensure that you have not changed the LAN IP address. If this has been changed, the new IP address must be used to access the WebUI.

15. Why does my Apple device say the Roam 5G Wi-Fi has weak security?

Firstly, rest assured this message is nothing to worry about and your Wi-Fi connection is still perfectly secure. As default, the Roam 5G Router uses WPA2-PSK as the Wi-Fi security standard.

As new standards emerge, Apple have highlighted vulnerabilities in the WPA2-PSK encryption standard and therefore devices on IOS 14 or newer highlight this with the 'weak security' message.

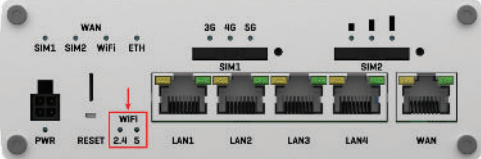
In reality, this protocol remains secure and is the standard used by most routers in the marketplace today. The newer gold standard protocol is WPA3. Maxview are working with Teltonika to ensure this protocol is introduced when available.

16. What are the lights on the side of the Roam 5G Router telling me?

Basic use and diagnosis using the LED's has been outlined below.

WiFi band LEDs

The WiFi band LEDs are located at the bottom of the front panel of the device, to the left of the Ethernet ports.

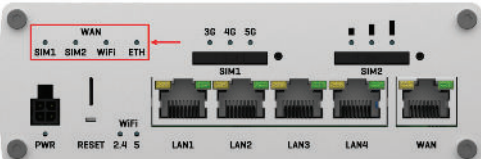


They display whether a WiFi Access Point (AP) is active on a specific band.

State	Description
2.4 LED turned on.	At least one 2.4 GHz Access Point is running.
2.4 LED turned off	No 2.4 GHz Access Points are running.
5 LED turned on	At least one 5 GHz Access Point is running.
5 LED turned off	No 5 GHz Access Points are running.

WAN type LEDs

The WAN type LEDs are located at the top-right of the front panel.



They indicate which type of Internet connection is currently active.

State	Description
SIM1 LED on	A mobile data connection on SIM1 is active.
SIM1 LED off	A mobile data connection on SIM1 is inactive.
SIM2 LED on	A mobile data connection on SIM2 is active.
SIM2 LED off	A mobile data connection on SIM2 is inactive.
WiFi LED on	A WiFi data connection (WiFi WAN) is active.
WiFi LED off	A WiFi data connection (WiFi WAN) is inactive.
ETH LED on	An Ethernet data connection (wired WAN) is active.
ETH LED off	An Ethernet data connection (wired WAN) is inactive.

Visit https://wiki.teltonika-networks.com/view/RUTX50_LEDs for a full list of the LED configurations and what these mean.

17. What is a Captive Portal?

A Captive Portal is the term used when a public Wi-Fi source redirects the user to a webpage before they can gain access to the internet.

This page usually requires the user to input details such as an email address and accept terms of use.

Wi-Fi sources requiring use of a Captive Portal are not supported by the Maxview Roam 5G and therefore cannot be used as an Wi-Fi source.

In this instance we suggest you continue to use the 3G/4G/5G connection or connect directly to the Wi-Fi connection with your Wi-Fi enabled device.



Example of a typical captive portal login.

18. What does the Maxview Roam 5G App do?

The Maxview Roam 5G App is available free of charge to all customers who have purchased a Maxview Roam 5G. It is available to download from the Android Google Play and Apple App Stores. The Roam 5G App is designed to simplify some of the key functions of the Maxview Roam 5G including set up, changing the Roam 5G hotspot Wi-Fi name/password as well as switching between 3G/4G/5G and Wi-Fi source. With the Roam 5G App, it is no longer necessary to access the router settings through the web browser.

19. What is WAN Failover?

Once Wi-Fi has been activated as the internet source, the Roam 5G uses WAN failover as default. This feature is designed to overcome the need to manually switch the internet source between mobile and Wi-Fi. When a Wi-Fi connection has been set up, the Roam 5G Router will prioritise this as the source of internet and only use the mobile connection when the Wi-Fi is no longer available.

Specifications

Antenna

Type:	Omni-directional 4 x 4 MIMO (multiple in multiple out)
Frequency/Gain:	698-6000 MHz/5.9dBi -8.8dBi. Includes all 3G, 4G and 5G frequencies
Connector Type:	4 x SMA
Impedance:	50 Ohm
Power:	Passive
Cable Lengths:	0.8m as standard
Housing:	Aluminium Base. UV Stable ASA Cover
Dimensions:	ø: 196mm x H: 65mm
Weight:	550g

Router

Router Type:	5G/4G (CAT20 LTE)/3G
Compatible Speeds:	5G up to 3.3Gbps - 4G up to 2.1Gbps
Wi-Fi:	MU-MIMO - 802.11.b/g/n/ac - 2.4GHz - 5GHz
3G/4G/5G Antenna Connector:	4 x SMA
Ethernet Ports:	5 x RJ45 (WAN and LAN)
Connection Devices:	Up to 150
External Antennas:	4 x 3G/4G/5G (for external roof mount antenna) 2 x Wi-Fi (for internal whip antenna)
Power:	9-50 VDC (Reverse Polarity Protection) 12V Automotive Power Supply Included. 1.5m Lead Length 2 Amp Fused Input Protection
Power Consumption:	0.4A Max
Family Browsing:	Yes, blacklists and whitelists
Remote Diagnostics:	Yes
SIM:	2 x Unlocked Ports
Housing:	Aluminium
Dimensions:	H: 270 x W: 132 x D: 45mm
Weight:	577g

Certification and Environment



The Roam 3G/4G/5G/Wi-Fi system has been designed, constructed and marketed in compliance with the safety and product requirements of the relevant EEC Directives.



Products marked with the crossed out wheely bin must not be disposed of with normal household waste but made available for separate household collection. Separate collection of used products and their packaging allows materials to be recycled and used again. Re use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.



UK Conformity Assessed (UKCA) marking is a certification mark that indicates conformity with the applicable requirements for products sold within Great Britain.