



USER MANUAL

4GEE Router from EE

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Safety and use

We recommend that you read this chapter carefully before using your device. The manufacturer disclaims any liability for damage, which may result as a consequence of improper use or use contrary to the instructions contained herein.

CONDITIONS OF USE:

Switch the device off before boarding an aircraft.

Switch the device off when you are in health care facilities, except in designated areas. As with many other types of equipment now in regular use, devices can interfere with other electrical or electronic devices, or equipment using radio frequency.

Switch the device off when you are near gas or flammable liquids. Strictly obey all signs and instructions posted in a fuel depot, petrol station, or chemical plant, or in any potentially explosive atmosphere.

When this device is switched on, it should be kept at least 20 cm from the body.

When the device is switched on, it should be kept at least 15 cm from any medical device such as a pacemaker, a hearing aid, or an insulin pump, etc.

Do not let children use the device and/or play with the device and accessories without supervision.

If your device has a removable cover, note that your device may contain substances that could create an allergic reaction.

If your device is a unibody device, the back cover is not removable. If you disassemble your device the warranty will not apply.

Always handle your device with care and keep it in a clean and dust-free place.

Do not allow your device to be exposed to adverse weather or environmental conditions (moisture, humidity, rain, infiltration of liquids, dust, sea air, etc.). The manufacturer's recommended operating temperature range is -20°C (-4°F) to +50°C (122°F).

Do not open, dismantle, or attempt to repair your device yourself.

Do not drop, throw, or bend your device.

Do not paint it.

Use only chargers and accessories which are recommended by EE Ltd. and its affiliates and are compatible with your device model. EE Ltd. and its affiliates disclaim any liability for damage caused by the use of other chargers.

Please note your device is a unibody device, the back cover is not removable. Observe the following precautions:

- Do not attempt to open the back cover;
- Do not puncture the back cover of your device;
- Do not burn or dispose of your device in household rubbish or store it at temperature above 60°C (140°F).

Device as a unibody device must be disposed of in accordance with locally applicable environmental regulations.



This symbol on your device and the accessories means that these products must be taken to collection points at the end of their life:

- Municipal waste disposal centres with specific bins for these items of equipment;
- Collection bins at points of sale.

They will then be recycled, preventing substances being disposed of in the environment, so that their components can be reused.

In European Union countries:

These collection points are accessible free of charge.

All products with this sign must be brought to these collection points.

In non-European Union jurisdictions:

Items of equipment with this symbol are not to be thrown into ordinary bins if your jurisdiction or your region has suitable recycling and collection facilities; instead they are to be taken to collection points for them to be recycled.

Adapters:

Mains powered adapters will operate within the temperature range of: 0°C (32°F) to 40°C (104°F).

The adapters designed for your device meet the standard for safety of information technology equipment and office equipment use. They are also compliant with the ecodesign directive 2009/125/EC.

Due to different applicable electrical specifications, an adapter you purchased in one jurisdiction may not work in another jurisdiction. They should be used for this purpose only.

Radio waves

Proof of compliance with international standards (ICNIRP) or with European Directive 2014/53/EU (RED) is required of all device models before they can be put on the market. The protection of the health and safety for the user and any other person is an essential requirement of these standards or this directive.

THIS DEVICE MEETS INTERNATIONAL GUIDELINES FOR EXPOSURE TO RADIO WAVES.

Your device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) recommended by international guidelines. The guidelines were developed by an independent scientific organisation (ICNIRP) and include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of mobile devices. They recommend that if you are interested in further reducing your exposure then you can easily do so by limiting your usage or keep the device away from the head and body.

Additional information about electromagnetic fields and public health are available on the following site: <http://www.who.int/peh-emf>.

Your device is equipped with a built-in antenna. For optimal operation, you should avoid touching it or degrading it.

Licences



The WiFi Logo is a certification mark of the WiFi Alliance.

This equipment may be operated in all European countries.

The 5150-5350 MHz band is restricted to indoor use only.

BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY	LV	NO	IS
LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK	LI	CH

We hereby point out that the end user warranty for infringement IPR is solely limited to the EU/EEA/Switzerland.

If and to the extent that the Product is exported, taken with, or used by end customer or end user outside the EU/EEA/Switzerland any responsibility, warranty or indemnification of manufacturer and its suppliers in regard to the Product expires (including any indemnification in regard to infringement IPR).

General information

Internet address: www.ee.co.uk

Hot Line Number: Using your EE SIM, dial 150 or alternatively dial 07953 966 250 from a UK landline

Manufacturer: EE Limited

Address: EE, 1 Trident Place, Hatfield Business Park, Hatfield, Hertfordshire, AL109BW, United Kingdom

This radio equipment operates with the following frequency bands and maximum radio-frequency power:

UMTS 2100/1800/900: 23dBm

LTE 1800/2600/800 : 23dBm

802.11a/b/g/n/ac : 2.4GHz<20dBm 5GHz<20dBm

Hereby, EE Ltd. declares that the radio equipment type 4GEE Router is in compliance with Directive 2014/53/EU.

The description of accessories and components, including software, which allow the radio equipment to operate as intended, can be obtained in the full text of the EU declaration of conformity.

Disclaimer

There may be certain differences between the user manual description and the device's operation, depending on the software release of your device or specific operator services.

EE Ltd. shall not be held legally responsible for such differences, if any, nor for their potential consequences, which responsibility shall be borne by the operator exclusively. This device may contain materials, including applications and software in executable or source code form, which is submitted by third parties for inclusion in this device ("Third Party Materials"). All Third Party Materials in this device are provided "as is", without warranty of any kind, whether express or implied. The purchaser undertakes that EE Ltd. has complied with all quality obligations

incumbent upon it as a manufacturer of mobile devices and devices in complying with Intellectual Property rights. EE Ltd. will at no stage be responsible for the inability or failure of the Third Party Materials to operate on this device or in interaction with any other device. To the maximum extent permitted by law, EE Ltd. disclaims all liability for any claims, demands, suits or actions, and more specifically – but not limited to – tort law actions, under any theory of liability, arising out of the use, by whatever means, or attempts to use, such Third Party Materials. Moreover, the present Third Party Materials, which are provided free of charge by EE Ltd., may be subject to paid updates and upgrades in the future; EE Ltd. waives any responsibility regarding such additional costs, which shall be borne exclusively by the purchaser. EE Ltd. shall not be held responsible for the lack of availability of any application, as its availability depends on the country and the operator of the purchaser. EE Ltd. reserves the right at any time to add or remove Third Party Materials from its devices without prior notice; in no event shall EE Ltd. be held responsible by the purchaser for any consequences of such removal.

1. Overview

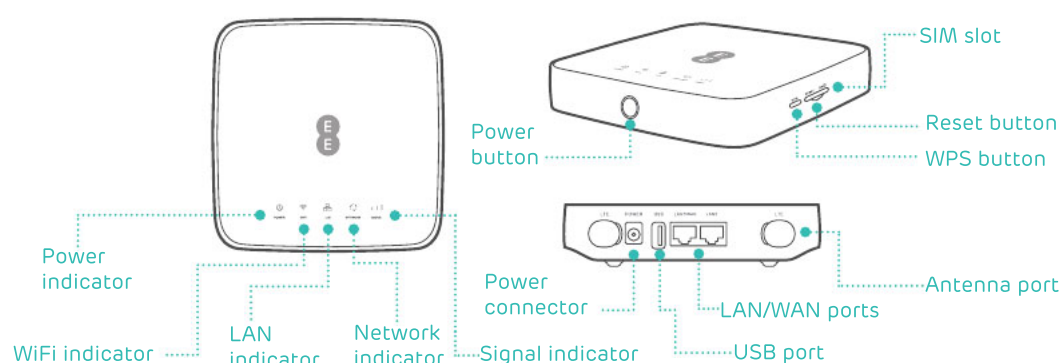
This device allows you to share a secure mobile broadband internet connection using WiFi or LAN. You can connect most WiFi enabled devices to it. (PCs, mobile gaming devices, smartphones, tablets, etc.) To get the best signal, the ideal place for your device will be near a window. Try a few different locations until you find the one with the best signal.

1.1 System requirements

This 4GEE Router is compatible with WiFi devices which support 2.4GHz (802.11 b/g/n) or 5GHz (802.11 a/n/c) and have a web browser.

1.2 Device description

The description for the device as below:



Power button

- Once connected to a power outlet, your 4GEE Router will automatically power on.
- To power off your device, press and hold the power button for 3 seconds.
- To power on your device, press and hold the power button for 1 second.

WPS button

To enable WPS, press and hold the WPS button for 3 seconds. The WiFi LED will start to flash blue. Then press the WPS button on the device you wish to connect to within two minutes. Your 4GEE Router will automatically assign your network settings to the device you wish to connect to.

Reset button

Use a paperclip or blunt pin to gently press and hold the reset button for 3 seconds, all LEDs will turn on, then off, and finally turn on again once the reset is completed.

USB port

Connect a USB storage device, or USB printer.

- This port cannot be connected to a USB host, only to devices such as computers.
- Supports USB 1.0 / 2.0 storage.
- If the power supply requirements exceed USB standards, it may not function properly.

Power indicator

■ Solid blue

Your device is powered on.

■ Off

Your device is powered off.

WiFi indicator

■ Solid blue

WiFi is enabled.

■ Flashing blue

WPS connection is available.

■ Off

WiFi is disabled.

LAN indicator

■ Solid blue

Device is connected to one of the LAN ports.

■ Off

No device is connected to either of the LAN ports.

Network indicator

■ **Solid green**

Connected to 3G.

■ **Solid blue**

Connected to 4G.

■ **Solid yellow**

Connected to WAN.

■ **Solid red**

No SIM available or the device is not registered to the network.

■ **Flashing green**

Registered to 3G.

■ **Flashing blue**

Registered to 4G.

Signal indicator

■ **Solid blue**

Signal strength ranges from 1-3 bars, with 3 being the strongest.

■ **Off**

No service / No signal / No SIM / Invalid SIM.

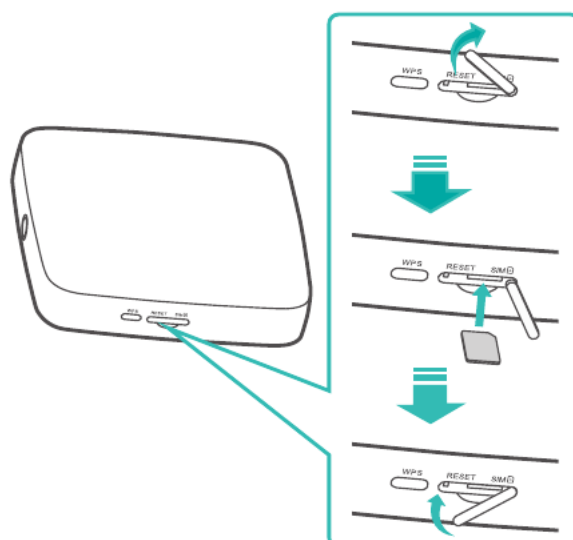
2. Getting started with your device

2.1 Insert SIM

Follow the 3 steps in the illustration below.

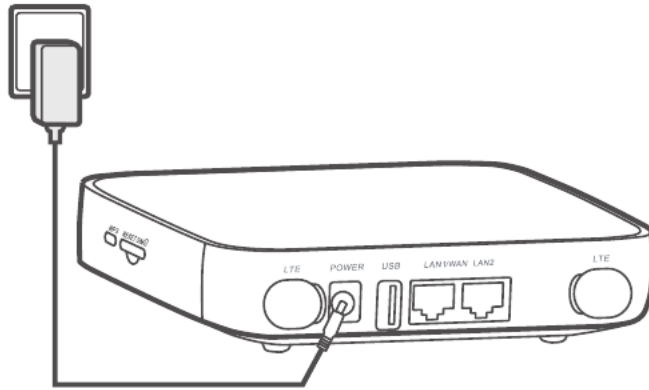
- 1) Open the SIM slot cover.
- 2) Insert the SIM into the SIM slot.
- 3) Close the SIM slot cover.

Do not remove the SIM when your 4GEE Router is in use. Doing so will affect the performance of your device, and data stored on the SIM may be lost.



2.2 Connect the power adapter

Follow the illustration below to plug in the power adapter. Once connected to a power outlet, your 4GEE Router will automatically power on.



To prevent interference caused by radio signals, place the 4GEE Router at least one metre away from phones and other electrical devices.

2.3 Optional: Installing the external antennae

In areas with poor signal reception, connect external antennae to the two ports labelled 'LTE' to improve signal reception.

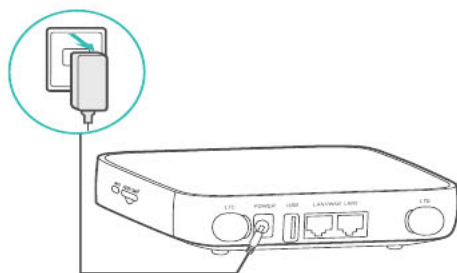
Warning:

Before installing the external antennae, ensure that your 4GEE Router is powered off and disconnected from the power outlet.

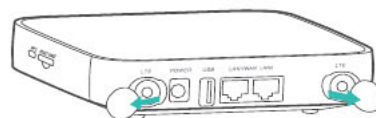
The external antennae must be installed by a qualified technician.

Use antennae recommended by EE Ltd. only.

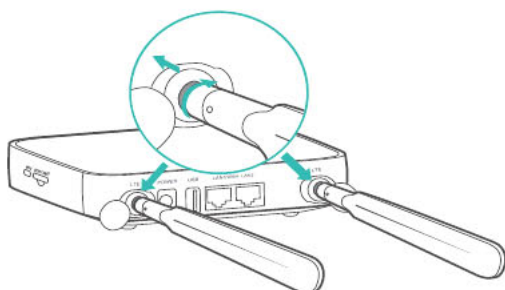
① Power off your 4GEE Router and disconnect it from the power outlet.



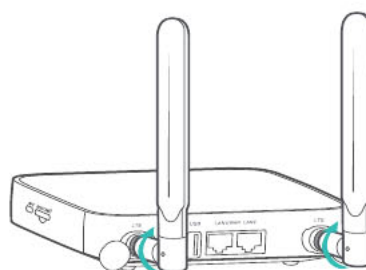
② Open the 'LTE' covers on both sides.



③ Screw external antennae fully into the antenna ports.



④ Keep external antennae pointed upwards to get a better signal.



2.4 How to connect in WiFi mode

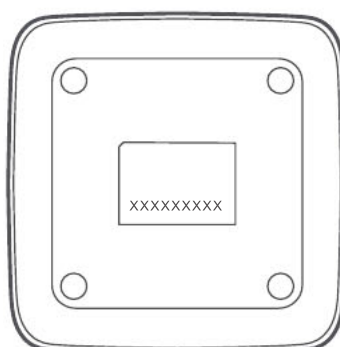
Step 1: Enabling WiFi on your 4GEE Router.

When the WiFi indicator is solid blue, WiFi is enabled.

Step 2: Recording the SSID and WiFi Key.

The default SSID and WiFi key are printed on the device label, situated on the underside of your 4GEE Router.

To prevent unauthorised parties from accessing your WiFi network, it is recommended that you change the SSID and WiFi key from time to time. For more information, please refer to the User Guide which can be accessed via the Web User Interface.



Step 3: Setting up a WiFi connection

- **Setting up a WiFi connection manually:**

- 1) From your WiFi enabled client, perform a scan for wireless networks.
- 2) Connect to the network name that matches the SSID found on the device label.
- 3) When prompted for a password, enter the WiFi key found on the device label (this is case sensitive). Your client will notify you when it is connected.

- **Setting up a WiFi connection through WPS:**

Your client must support WPS. There are 3 ways to set up a WPS connection.

Option 1: WPS button

- 1) Ensure that WiFi is enabled on the client and enable WPS.
- 2) Press and hold the WPS button for 3 seconds. The WiFi LED will begin to flash blue.
- 3) Your device should then automatically connect.

Option 2: WPS key

- 1) Enable the WPS function on your smart device (only Android devices are supported) and note the WPS key.
- 2) Enter the WPS key on the WEB User Interface and click **Apply**.
- 3) Your device should then connect automatically.

The screenshot shows a web interface for WPS configuration. At the top, the title 'WPS' is displayed. Below it, there are two radio buttons for 'WPS mode': 'WPS key' (which is selected) and 'PBC'. Underneath, there is a text input field labeled 'WPS key:'. A note at the bottom explains that the WPS key is used to verify access credentials and that the router will receive a request from the client within two minutes. At the very bottom, there are two yellow buttons: 'Apply' and 'Cancel'.

WPS

WPS mode: ☒ WPS key ☐ PBC

* WPS key:

Note:
Use the WPS key to verify the WPS access credentials.
Your router will receive an access request from the client within two minutes.
Enter the WPS key from the wireless access client and click Apply.

Apply Cancel

Option 3: PBC

- 1) Open the WPS page on your Web User Interface (Navigate to Settings / WiFi / WPS).
- 2) Click on **PBC**.
- 3) Click **Apply**. WPS is now enabled for 2 minutes.
- 4) Enable WPS on your client and it should automatically connect.

WPS mode: ☐ WPS key ☒ PBC

Note:

The WPS soft button works in the same way as the WPS button on your router.

To set up a WPS connection, select PBC and click Apply.

Or press and hold the WPS button on your router for three seconds until the WiFi indicator light flashes.

Apply **Cancel**

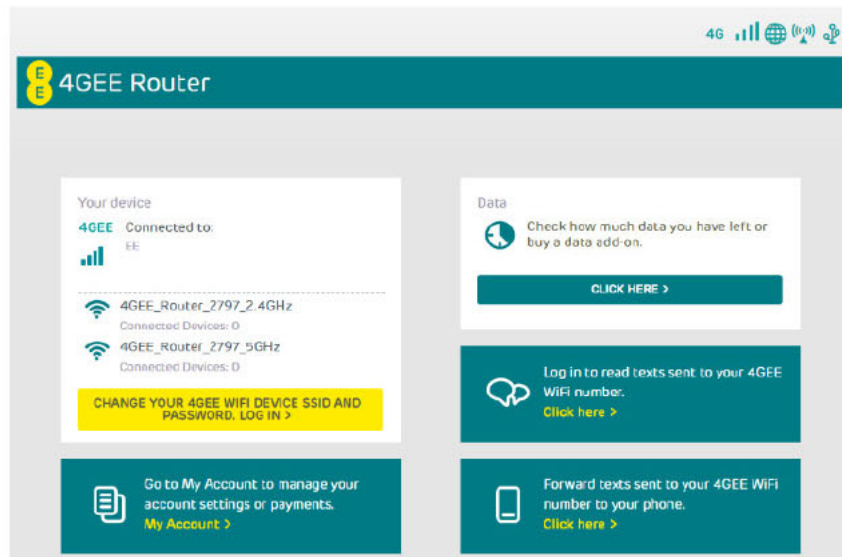
3. Home

The Web User Interface is compatible with the following browsers:

- Mozilla Firefox
- Safari 4.0.2 to 7.02
- Internet Explorer 9.0 or later.
- Microsoft Edge
- Opera
- Google Chrome

3.1 How to log in to the Home page

- 1) Open your web browser.
- 2) Input <http://192.168.1.1> into the address bar and press enter. The Home page will then load, as shown in the screenshot below.



- 3) Log in to change your 4GEE WiFi device SSID and password, or change other basic settings.


Default username: **admin**








Default password: **admin**

Note: You will be forced to change the default password for additional security.

3.2 Web UI status bar page

Status bar icons

Description	Icon displayed
Network technology	3G or 4G will be displayed, depending on the network available. No service will be displayed when there is no network available.
Signal indicator	 From no signal to excellent.

Description	Icon displayed
Connection status	 disconnected,  connected
SMS	 New message / Unread message(s) in inbox  SMS box is full.
WiFi status	 WiFi is enabled.  WiFi is disabled.
USB	 USB device or printer is connected.

4. Status

You can click on **Status** to view basic information about your device or check various statistics.

Status

Status allows you to view your device information including internet, LAN, WAN and WiFi. You can connect, disconnect or change the SSID of the device here.

Statistics

The internet statistics can be seen here, both for your current session and your total traffic for the month.

Note: These figures are only meant to be used as a guide. Please check your online account or visit <http://add-on.ee.co.uk>.

LAN and WiFi statistics can also be viewed.

5. Services

You can navigate to **Services** and click the items you want. In this section, the following items are included:

5.1 SMS

Inbox: List the messages received.

Sent: List the messages sent successfully.

Draft: Unsent messages are saved here.

New message: Write a new message.

SMS Forwarding: Forward messages to a recipient's mobile number.

SMS Settings: Configure settings for messaging.

How to read an SMS:

Left-click the content of the message you wish to read.

How to send an SMS:

- 1) Click on **SMS**.
- 2) Left-click on **New message**.
- 3) Input the recipient's number and message content.
- 4) Click **Send**.

Note: you may also save the message to **Draft** by clicking on **Save**.

How to forward an SMS:

- 1) Click on the content of the message that you wish to forward.
- 2) Click **Forward**.
- 3) Input the new recipient's number.
- 4) Click **Send**.

How to reply to an SMS:

- 1) Left-click the content of the message in your Inbox that you wish to reply to.
- 2) Click **Reply**.
- 3) Input the content that you wish to send.
- 4) Click **Send**.

How to delete an SMS:

- 1) Find the message you wish to delete in either the Inbox, Sent or Draft folder.
- 2) Tick the box in the far right column for the message(s) that you wish to delete.
- 3) Click **Delete**.

How to delete all SMS:

- 1) Left-click at the top of the column to select all.
- 2) Click **Delete**.


How to enable SMS delivery reports:

- 1) Click **SMS Settings**.
- 2) Click .

How to disable SMS delivery reports:

- 1) Click **SMS Settings**.
- 2) Click .

How to enable SMS forwarding:

- 1) Click **SMS forwarding**.
- 2) Click .
- 3) Enter recipient's number.
- 4) Click **Apply**.

How to disable SMS forwarding:

- 1) Click .
- 2) Click **Apply**.

SMS Settings:

SMS delivery reports: You can enable or disable delivery reports here.

SMS centre: This is preset and is non-editable.

5.2 Share

USB mass storage

Samba and FTP

The Samba and FTP Service allows computers running different operating systems to access files in the USB storage device connected to your 4GEE Router.

- **How to access files in the USB storage via Samba:**

- 1) Log in to your 4GEE Router Web-UI and go to **Services** -> **Share** -> **Connected devices**. Ensure that the **Access Storage** of the connected devices is enabled.
- 2) Go to **Services** -> **Share** -> **USB mass storage** and enter the administrator password.
- 3) Enable **Samba**.
- 4) On Windows OS: Go to 'My Computer'. Click in the navigation bar where it says 'Computer' and input \\192.168.1.1 (If default IP address is changed, Samba IP address will be changed accordingly). Double-click on the **admin** shared folder and input your username and password (same as the credentials used to log in to the Web UI) to access the USB storage.

On MAC OS, go to 'File -> New Finder Window'. Check for **4GEE Router** under Shared and left-click on it. Click on 'Connect As...' and select 'Registered User'. Enter your username and password (same as the credentials used to log in to the Web UI). Then double-click on **admin**.

- **How to access files in the USB storage via FTP:**

- 1) Download and install your chosen FTP program.
- 2) Log in to your 4GEE Router Web-UI and go to **Services** -> **Share** -> **Connected devices**. Make sure that connected devices have enabled the **Access Storage** permission.
- 3) Go to **Services** -> **Share** -> **USB mass storage** and enter the administrator password.
- 4) Enable **FTP**.
- 5) Input the following details into your FTP program:
Host: 192.168.1.1
Username: admin
Password: (same as password to log in to the Web UI)
- 6) You may now connect.

USB

- **USB mass storage**

- 1) Click on **Services** -> **USB mass storage** and enable **Samba**.
- 2) Click **Start**, enter \\192.168.1.1, and press **Enter**. You can then access the storage in the same way as outlined above.

- **USB Printer**

- 1) Connect a USB printer via the USB port on your 4GEE Router.
- 2) Connect your computer to your 4GEE Router.
- 3) Install the printer driver on your computer and select the USB printer from the printer list on your computer.
Note: Set the printer port as a standard TCP / IP port with address 192.168.1.1 (this should be the same as your 4GEE Router Web-UI address).
- 4) Click **File** and select **Print** to start printing.

DLNA

Sharing Files Using the DLNA Function.

After enabling Digital Living Network Alliance (DLNA), you can use a connected device that support DLNA to perform functions such as accessing multimedia files stored on a USB device.

- 1) Download and install your chosen DLNA program.
- 2) Go to **Services** -> **Share** -> **DLNA**. Input your administrator password and click **Log in**. You may now enable or disable **DLNA**.
- 3) Open your DLNA program on the connected device to view the DLNA content.

Connected devices

You can configure access to the internet and storage for any connected devices. Connected devices will be shown in the table on this page, it is possible to enable or disable access for each device. You may also rename each connected device.

6. Settings

You can go to **Settings** and make changes to the following:

Quick setup

Setup

WiFi

Security

Advanced settings

6.1 Quick setup

You can make changes to basic connection settings here and enable/disable data roaming.

On the next page, you can change the SSID or enable/disable 2.4GHz or 5GHz.

On the final page, you can setup your WiFi security and change the WiFi key.

6.2 Setup

Data Connection

Mobile Connection lets you configure connection mode, Data roaming and connect IP mode.

Profile Management

Profile Management allows you to set up a new APN profile or edit/delete existing profiles that have been created.

- **How to add a new profile:**

- 1) Click **New**.
- 2) Input the correct parameters for your Network Operator. **Profile Name / Dial number / APN** are required as a minimum.
- 3) Click **Save**.

- **How to Edit a profile:**

- 1) Select the profile from the Profile management list.
- 2) Click **Edit** to change the parameters.
- 3) Click **Save**.

- **How to delete a profile:**

- 1) Select the profile from the Profile management list.
- 2) Click **Delete**.

Note: The default profile cannot be deleted.

- **Setting as default:**

- 1) Select the profile from the Profile management list.
- 2) Click **Set default**.

Note: Once the new profile has been set as default, (Default) will be added next to the profile name.

- **Network Selection:**

You can set the **Network search mode** to either **Auto** or **Manual**, and change the **Network mode** to either **Auto** or **4G only**. Ensure that you click **Apply** after making any changes.

6.3 WiFi

Basic

The screenshot shows the '4GEE Router' settings interface. At the top, there's a status bar with '4G' and various icons. Below it is a navigation bar with tabs: 'Home', 'Status', 'Services', 'Settings' (highlighted), 'Device', and 'User Guide'. On the left, a sidebar menu lists 'Quick setup', 'Setup' (with a dropdown arrow), 'WiFi' (with an up arrow), 'Basic' (selected), 'Advanced', 'WPS', 'Security' (with a dropdown arrow), and 'Advanced settings' (with a dropdown arrow). The main content area is titled 'Basic' and is divided into two sections: '2.4GHz' and '5GHz'. In the '2.4GHz' section, 'WiFi 2.4GHz' is toggled on, 'SSID' is '4GEE_Router_0897_2.4GHz', 'SSID broadcast' is toggled on, 'Security' is 'WPA2', and 'Encryption' is 'Auto'. A 'WiFi key' field shows masked characters, and there is a 'Show password' checkbox. The '5GHz' section shows 'WiFi 5GHz' is also toggled on, and its 'SSID' is '4GEE_Router_0897_5GHz'.

- **SSID:** This is the name of the WiFi network and is used to identify your WiFi network. The SSID can be between 1 and 32 characters long.

- **SSID Broadcast:** This is enabled by default.

Note: If you do choose to disable this, the SSID will no longer be displayed and will need to be entered manually.

- **Security:** You can choose the security mode, available options are **Disable**, **WEP**, **WPA**, **WPA2**, or **WPA/WPA2**.
- **Encryption:** This is set to **Auto** by default, available options are **TKIP**, **AES**, or **Auto**.

Advanced

The screenshot shows the 'Advanced' settings page for a 4GEE Router. The left sidebar contains a navigation menu with options: Quick setup, Setup, WiFi, Basic, Advanced (selected), WPS, Security, and Advanced settings. The main content area is titled 'Advanced' and displays settings for two Wi-Fi bands: 2.4GHz and 5GHz. For the 2.4GHz band, the Channel is set to 'Auto', 802.11 mode is '802.11b/g/n', AP isolation is disabled (toggle switch), and Bandwidth is 'Auto'. For the 5GHz band, the Channel is set to 'Auto', 802.11 mode is '802.11a/c', AP isolation is disabled (toggle switch), and Bandwidth is 'Auto'. At the bottom of the settings area, there are 'Apply' and 'Cancel' buttons.

- **Channel:** Different regions use different channels (Channel 1-11 in FCC (US) / IC (Canada); Channel 1-13 in ETSI (Europe); Channel 1-13 in MKK (Japan)).
- **802.11 Mode:** You can select from the available options via the drop-down menu. For 2.4GHz, this is set to **802.11b/g/n** by default. For 5GHz, this is set to **802.11a/c** by default.
- **AP isolation:** You can enable or disable this function.
- **Bandwidth:** You can select from the available options via the drop-down menu. This is set to **Auto** by default.


WPS

Use the WPS key to verify the WPS access credentials. Your router will receive an access request from the client within 2 minutes. Enter the WPS key from the wireless access client, then click **Apply**. (For more information on how to set up WPS, please see page 14)


6.4 Security

SIM PIN management

- **Enabling SIM PIN:**

- 1) When SIM PIN is disabled, click .
- 2) Enter a SIM PIN that is 4-8 digits long.
- 3) Click **Apply**.

- **Disabling SIM PIN:**

- 1) When SIM PIN is enabled, click .
- 2) Enter the current SIM PIN.
- 3) Click **Apply**.

- **Changing SIM PIN:**

- 1) When SIM PIN is enabled, click **Change SIM PIN**.
- 2) Enter the old SIM PIN and confirm the new SIM PIN.
- 3) Click **Apply**.

Note: When a SIM PIN is entered incorrectly 3 times, a PUK code is required. You can obtain this by calling customer services on 150 using your EE SIM, or alternatively dial 07953 966 250 from a UK landline.

6.5 Advanced settings

Configure WAN

Set up the WAN connection mode and parameters here. You can set the connection mode to **PPPoE**, **DHCP** or **static IP**.

- **PPPoE:** PPPoE stands for Point-to-Point Protocol over Ethernet. This is a network protocol that is mainly used for DSL services where individual users connect to a modem using an Ethernet connection. Enter the username and password provided by your network service provider and click **Apply**.

- **DHCP:** Dynamic Host Configuration Protocol (DHCP) is a client / 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 are all automatically assigned. Select DHCP and click **Apply**.
- **Static IP:** Access the internet using a fixed IP address, subnet mask, gateway IP address and Primary DNS server, these should be provided by your network service provider.
- **MTU:** Maximum Transmission Unit - This is the largest packet size or frame that can be sent. It is set to 1492 by default.

MAC Clone

Using the MAC Clone function, multiple clients can connect to the 4GEE Router and access the internet.

Your current MAC address is displayed here. Click **Reset** to set a new MAC address. Click **Clone** to copy your host Mac address.

LAN

Local area network (LAN) parameters are displayed here. The default Gateway address is 192.168.1.1.

The default Subnet Mask is 255.255.255.0.

DHCP Server will automatically assign IP addresses to devices in the network, it is disabled by default.

WAN ping

For improved security, your device will not respond to ping commands when this function is disabled.

IP filter

By default, any device connected to your 4GEE Router is allowed to access the internet. You can use the IP filter to block specific devices from accessing the internet.

- **Disable:** Users are allowed to access all the IP addresses.
- **Whitelist:** Users are allowed to access IP addresses in this list only.


- **Blacklist:** Users are not allowed to access IP addresses in this list.

MAC filter

By default, any device connected to your 4GEE Router is allowed to access the internet. You can use the MAC filter to block specific devices from accessing the internet.

- **Disable:** All MAC addresses are allowed to access the internet.
- **Whitelist:** Only the MAC addresses in this list are allowed to access the internet.
- **Blacklist:** MAC addresses in this list are blocked from accessing the internet.

DMZ

If external users cannot access certain network services provided by the LAN, you can enable **DMZ** and set a new Host IP address. Click  to enable it. Enter an appropriate Host IP address and then click **Apply**.

ALG

H.323 is a standard that defines the protocols to provide audio-visual communication sessions on any packet network. You may enable or disable H.323 ALG. This function is disabled by default.

UPnP

Universal Plug and Play (UPnP) is a set of networking protocols that allows devices connected to your 4GEE Router to discover each other and establish functional network services for data sharing, communications, and entertainment. You may enable or disable UPnP. This function is disabled by default.

NTP server

Network Time Protocol (NTP) is a networking protocol for clock synchronisation between computer systems over packet-switched data networks. You can specify which NTP servers to use.

Virtual Server

The device supports the virtual server to enable external users to use the services provided in the local area network (LAN) using the Hypertext Transfer Protocol (HTTP), File Transfer Protocol (FTP), and other protocols. Click to enter the parameter including name, LAN IP address, LAN port, WAN port etc. and click **Apply**.

QoS

Quality of Server (QoS) is an advanced feature that prioritises Internet traffic for applications, online gaming, Ethernet LAN ports, or specified MAC addresses to minimise the impact of busy bandwidth. Enable QoS, set your uplink and download limits and click **Apply**.

Parental Control

This function enables the administrator to block specific devices from accessing specified URL(s) during set time periods.

Note:

Blocking a URL may not block the associated app. For example, adding www.facebook.com may not block the specified device from using the Facebook app.

7. Device

Device info

You can view info for your device here such as IMEI, software version and MAC address.

Device management

- **Login password**

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

- **System Settings**

You can select the correct time zone here. Note that the time is automatically adjusted for Daylight Saving Time.

- **Backup & restore**

How to save the configuration:

Click **Backup** to backup current device configuration. On both Windows and MAC OS, this is saved to your 'Downloads' folder.

How to restore the configuration:

- 1) Click **Browse** to select a file.
- 2) Click **Restore**.

Restart and reset

Click **Restart** to reboot the device and click **Reset** to restore Factory default settings.

You also can use the reset button on your 4GEE Router.

Update

Local update:

Before performing a local update of your 4GEE Router, save the update package to your computer first. Click **Browse** to navigate to the saved update package and click **Update**.

Note: Do not power off your router during the update process as this may damage it.

Online Update:

Click **Check for updates**. Your 4GEE Router will check if there is an update available. If one is found, you may click **Download**. Once the file has downloaded successfully you will be able to click **Update**.

Note: Do not power off your router during the update process as this may damage it.

8. Warranty

Your device is warranted against any defect or malfunctioning which may occur in conditions of normal use during the warranty period of twenty-four (24) months¹ from the date of purchase as shown on your original invoice.

Accessories sold with your device are also warranted against any defect which may occur during the first twenty (12) months⁽¹⁾ from the date of purchase as shown on your original invoice.

In case of any defect of your device which prevents you from normal use thereof, you must immediately inform your vendor and present your device with your proof of purchase.

If the defect is confirmed, your device or part thereof will be either replaced or repaired, as appropriate. Repaired device and accessories are entitled to a one (1) month warranty for the same defect. Repair or replacement may be carried out using reconditioned components offering equivalent functionality.

This warranty covers the cost of parts and labor but excludes any other costs.

This warranty shall not apply to defects to your device and/or accessory due to (without any limitation):

- Non-compliance with the instructions for use or installation, or with technical and safety standards applicable in the geographical area where your device is used;
- Connection to any equipment not recommended in the EE user manual;
- Modification or repair performed by individuals not authorised by EE Ltd. or its affiliates or your vendor;
- Modification, adjustment or alteration of software or hardware performed by individuals not authorised by EE Ltd.;
- Inclement weather, lightning, fire, humidity, infiltration of liquids or foods, chemical products, download of files, crash, high voltage, corrosion, oxidation.

Your device will not be repaired in case labels or serial numbers (IMEI) have been removed or altered.

¹ The warranty period may vary depending on your country.

There are no express warranties, whether written, oral or implied, other than this printed limited warranty or the mandatory warranty provided by your country or jurisdiction.

In no event shall EE Ltd. or any of its affiliates be liable for indirect, incidental or consequential damages of any nature whatsoever, including but not limited to commercial or financial loss or damage, loss of data or loss of image to the full extent those damages can be disclaimed by law.

Some countries/states do not allow the exclusion or limitation of indirect, incidental or consequential damages, or limitation of the duration of implied warranties, so the preceding limitations or exclusions may not apply to you.