The Vodafone Sure Signal contains a number of open source elements. See the source code, as well as the GNU LESSER GENERAL PUBLIC LICENSE (version 2.1) at
https://forge.betavine.net/projects/voda-femtocell/
How the Sure Signal works

The Sure Signal contains a small 3G transmitter and receiver, which it uses to connect with registered 3G phones, laptops with internal 3G modems, and USB 3G modem sticks, rather like a Wi-Fi network does.

It then relays calls, emails and internet access through your existing broadband connection.

You will get the best results if you position your Sure Signal as centrally as possible, and avoid putting it too close to metal objects or other transmitters (like Wi-Fi routers).
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You will get the best results if you position your Sure Signal as centrally as possible, and avoid putting it too close to metal objects or other transmitters (like Wi-Fi routers).

More bars, faster websites.

We’ll show you how your Vodafone Sure Signal can boost the 3G signal in your home or office.

Before you start up, please make sure that you have:

1. a fixed broadband modem or modem/router
2. your Vodafone 3G phone or device
3. a nearby mains power socket.
Quick setup

1. plug the supplied yellow Ethernet cable into the yellow Ethernet port (connector) labelled ROUTER/MODEM on your Sure Signal.
2. plug the other end of the yellow cable into a spare Ethernet port on your broadband router/modem.*
3. plug your Sure Signal into the mains power supply – you will see the front red Power light turn on.

Automatic configuration

Your Sure Signal will now start its configuration process. This is fully automated and may take up to an hour and a half to complete.

- first, the System and Phone lights will flash. When the Sure Signal has established an internet connection with Vodafone, the Phone light will go out – this may take up to 10 minutes.
- the System light will carry on flashing, then the Phone light will briefly flash again, while the rest of the configuration is completed.
- when the System light stays lit you should now have full 3G signal strength on your phone or a fast internet connection on a USB modem.

Once it’s set up we recommend that you leave it plugged in at all times to maintain service and optimise performance.

If the configuration doesn’t complete

- if the Phone light hasn’t gone out after the first 10 minutes: this indicates that although a connection has been made with Vodafone, your Sure Signal may not be activated.
- if both the Phone and System lights are off after the first 10 minutes: this means the Sure Signal can’t connect to Vodafone. Check your broadband connection and firewall settings.
- if the Sure Signal will automatically restart the configuration process after another 5 minutes.

FAQs

How do I check that my mobile is using the Sure Signal?

The Phone light on the Sure Signal will be on while your phone is in use.

Why won’t my phone connect to the Sure Signal?

The Sure Signal supplies a 3G signal. If your phone is a 3G phone, please check it is set to use the 3G service.

Check whether the maximum number of simultaneous users (4) has been reached.

If I leave my Sure Signal plugged in all the time, how much electricity will it use?

The Sure Signal uses about the same power as a typical Wi-Fi router.

What are the radio frequency emissions from the Sure Signal?

The Sure Signal emits a lower level of emissions than a standard wireless router.

The power light keeps flashing. What does this mean?

The Sure Signal has a fault. Please contact Vodafone.

The System light is not staying lit

Please check that all the cables are plugged in securely. Also, check whether your broadband connection is working properly.

Since I plugged my Sure Signal in I have been unable to connect my PC to the Internet via Wi-Fi. Is there a fault?

No, but if the Sure Signal is situated too close to your Wi-Fi router this can occasionally affect the range of the Wi-Fi. To rectify this please move your Sure Signal further away from your router (there is no need to move it further than the supplied cable allows).

Help and support:

Go to vodafone.co.nz/suresignal, or call us on 0800 921 021.

What do the lights mean?

Power

- On – the Sure Signal is powered on
- Flashing – the Sure Signal has a fault: please check your broadband connection before contacting Vodafone

System

- Off – the Sure Signal can’t provide a service
- On – the Sure Signal is ready for use
- Flashing – the Sure Signal is being configured

Phone

- Off – no calls or internet connections being made
- On – one or more calls or internet connections in progress
- Flashing – the maximum number of simultaneous users has been reached (Sure Signal can handle up to 4)
- Flashing at the same time as the System light – the Sure Signal is being configured
- Flashing while the System light is off – the system is working, but network issues may affect your service

* Note: if you do not have a spare Ethernet port then follow the instructions below.

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   - On – the Sure Signal is ready for use
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Safety notes

- Please read the Safety Information Guide
- Avoid contact with liquid. Keep dry
- Do not try and disassemble
- Small parts may cause a choking hazard.
- Only use approved accessories.

RF Exposure

General Statement on RF energy

Vodafone Sure Signal contains a transmitter and a receiver. When your phone is in use it emits and transmits RF energy. The system handling your call controls the power level at which the Vodafone Sure Signal transmits.

Specific Absorption Rate (SAR)

Vodafone Sure Signal device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organisation ENRF and include safety margins designed to assure the protection of all persons, regardless of age and health.

To ensure compliance with RF exposure guidelines the Vodafone Sure Signal must be used with a minimum of 2 cm separation from the body. The tests are carried out in accordance with IEC standard.

Product Handling

General Statement on handling and use

You alone are responsible for how you use the Vodafone Sure Signal and any consequences of its use. You must always switch off the Vodafone Sure Signal whenever the use of RF device is prohibited. Use of your Vodafone Sure Signal is subject to safety measures designed to protect users and their environment.

- Always treat the Vodafone Sure Signal and its accessories with care and keep it in a clean and dust-free place.
- Do not expose the Vodafone Sure Signal to liquids, moisture or high humidity.
- Do not drop. These may try to bend the Vodafone Sure Signal or its accessories.
- Do not use harsh chemicals, cleaning solvents, or aerosols to clean the device or its accessories.
- Do not paint the Vodafone Sure Signal or its accessories.
- Do not expose the Vodafone Sure Signal or its accessories to extreme temperatures: minimum –10 and maximum +55 degrees Celsius.
- Please check local regulations for disposal of electronic products.

Small Children

Do not leave the Vodafone Sure Signal and its accessories within the reach of small children or allow them to play with it. They could hurt themselves or others.

Power supply

Do not connect your device to the power supply or switch it on until instructed to do so in the installation instructions.

Indoor usage

The Vodafone Sure Signal is only suitable for indoor usage.

Emergency Calls

Your phone connected through the Vodafone Sure Signal, like any wireless phone, operates using radio signals, which cannot guarantee connection in all conditions. Therefore, you must never rely solely on any wireless phone for emergency communications.

Demagnetisation

To avoid the risk of demagnetisation, do not allow electronic devices or magnetic media close to the Vodafone Sure Signal for a long time.

Housing

The Vodafone Sure Signal may become warm during normal use.

Electronic Safety

Accessories

Use only approved accessories. Do not connect with incompatible products or accessories.

Faulty and Damaged Products

Do not attempt to disassemble the Vodafone Sure Signal or its accessories. Only qualified personnel must service or repair the Vodafone Sure Signal or its accessories. If the Vodafone Sure Signal or its accessory has been submerged in water punctured, or exposed to a severe fall, do not use it until you have taken it to be checked at an authorised service centre.

Interference

General statement on interference

Care must be taken when using the Vodafone Sure Signal in close proximity to personal medical devices, such as pacemakers and hearing aids.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 15 cm be maintained between the Vodafone Sure Signal and a pacemaker to avoid potential interference with the pacemaker.

Medical devices

Please consult your doctor and the device manufacturer to determine if operation of the Vodafone Sure Signal may interfere with the operation of your medical device.

Hospitals

Only install your Vodafone Sure Signal in hospitals, clinics or health care facilities where permitted to do so by the regulating authority. This is to prevent possible interference with sensitive medical equipment.

Explosive environments

Pencil stations and explosive atmospheres

Do not install the Vodafone Sure Signal in locations with potentially explosive atmospheres; only use approved non-explosive atmospheres; keep all powered devices away from wireless devices such as your phone or other radio equipment. Areas with potentially explosive atmospheres include fuelling areas, below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

Blasting Caps and Areas

Do not install the Vodafone Sure Signal in a blasting area or in areas protected from “hazardous radiation” or other radio devices to avoid interfering with blasting operations.

Open source in the Vodafone Sure Signal

The Vodafone Sure Signal contains a number of open source components. You can find source information in the accompanying Open Source licence.

To access the source code, please visit https://source.vodafone.net/projects/vodafone-local/