Vodafone MachineLink 4G

Quick Start Guide
and Safety Manual

Vodafone
Power to you

Welcome
to the world of mobile communications

Thank you for choosing a Vodafone MachineLink 4G, M2M router. This guide will help you set up, connect and configure your device quickly and easily.

Package contents

This package includes

- 1x Vodafone MachineLink 4G M2M router

- 2 x Multiband dipole cellular antennas (ANT-0022)

- 2 x Wi-Fi dipole antennas

- 1x 1.5m yellow Ethernet cable 8P8C

- 1x DIN rail mounting bracket

- 1x Four-way terminal block (attached to device)

- 1x Quick start guide and safety manual
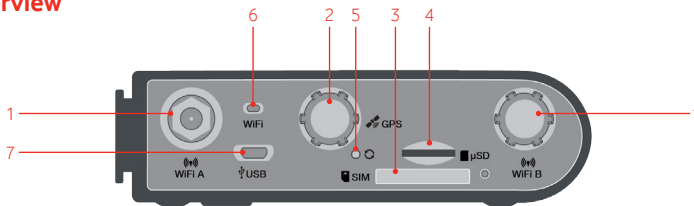
- 1x Printed WiFi activation card

Getting started

Depending on your individual setup, you may need certain components to configure your device correctly.

- External power supply unit for the Vodafone MachineLink 4G router (not included).

- Flathead screwdriver for terminating power input wires.

- Notebook or PC for advanced configuration.

- Additional fasteners and screwdrivers for specific wall or rail mounting.
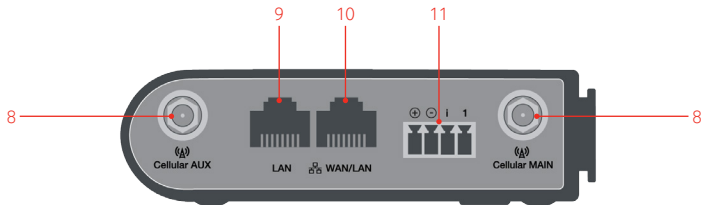
Device overview

ITEM		DESCRIPTION
1	WiFi antenna connectors	Reverse polarity SMA Female connectors for WiFi antennas.
2	GPS antenna connector	SMA female connector for GPS antenna.
3	SIM card slot	Insert SIM card here.
4	MicroSD card slot	Insert a MicroSD card here to provide additional storage (Optional).
5	Reset button	• Press and hold for less than 5 seconds to reboot to normal mode. The LEDs are green and extinguish in sequence to indicate that the router will reboot normally if the button is released during this period. • Press and hold for 5 to 15 seconds to reboot to recovery mode. The LEDs are amber and extinguish in sequence to indicate that the router will reboot to recovery mode if the button is released during this period. • Press and hold for 15 to 20 seconds to reset the router to factory default settings. The LEDs are red and extinguish in sequence to indicate that the router will reset to factory default settings if the button is released during this period.
6	WiFi LED	Provides a visual overview of the state of the WiFi radio. See the Overview of LED indicators section for more detail.
7	Micro USB 2.0 (Type AB) OTG port	Provides connectivity for optional external storage, USB to Serial port adaptor or a USB Ethernet dongle. Supplies up to 0.5A to connected device.

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| ITEM		DESCRIPTION
8	Cellular antenna connector	SMA female connectors for LTE/UMTS/GSM antennas (ANT-0022).
9	RJ45 LAN Ethernet port	Connect one or several devices via a network switch here.
10	RJ45 WAN/LAN port	WAN or LAN port for wired Ethernet clients or to bridge another network connection.
11	Four-way terminal block connector	Connect power source wires here. Power wires may be terminated on the supplied terminal block and connected to a power source. Refer to the diagram and table under Step 4 of the Installing your device section for correct wiring of the terminal block. Operates in the 8-40V DC range. The four-way terminal block connector has the following terminals: • Power (+) • Ground (-) • I/O terminal • (i) ignition input detection terminal.

Installing your device

Step 1

The Vodafone MachineLink 4G router comes equipped with an internal soldered-down GDSP SIM which is ready for use. If you have an additional SIM card that you would like to use, you can insert it in the SIM card tray. To eject the SIM card tray, use the end of a paper clip to press the SIM Eject button. Place the SIM card in the tray and then insert the loaded tray into the SIM slot with the gold side facing up, as shown below.


Push to eject
Sim tray
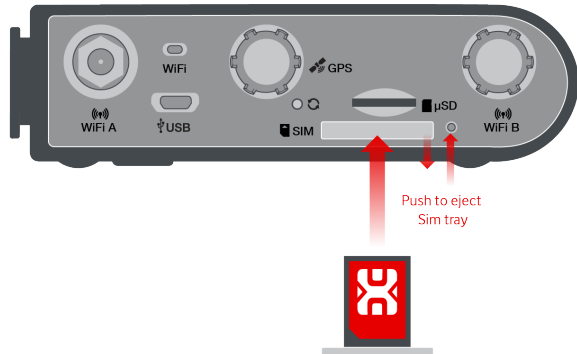
If you have a microSD card to use with the device, insert it into the SD card slot. The microSD card slot is spring loaded and retains the microSD card until it is pushed again to eject it.

Step 2

The MachineLink 4G router is shipped with rubber caps on the Cellular, WiFi and GPS antenna sockets. To attach the supplied antennas, first remove the socket caps from the antenna sockets then screw the antennas onto the sockets by turning them in a clockwise direction. Please refer to the Device overview section for the antenna socket layout. If you have purchased a GPS antenna, remove the socket cap from the GPS antenna socket and attach the antenna to the socket in the same manner.

Unscrew
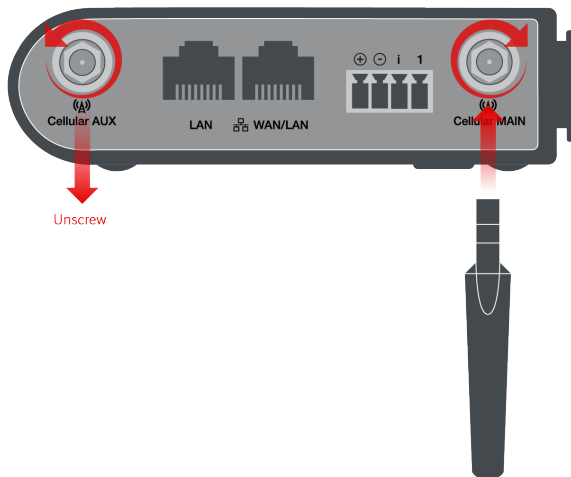
Step 3

Mount your router in a suitable location using the options listed in the Mounting options section.

When selecting a location to mount the MachineLink 4G router, keep in mind that it features high performance antennas designed to provide optimum signal strength in a wide range of environments. You can check the signal strength by observing the colour and number of LEDs illuminated on the front of the device. For a precise reading of the signal strength, refer to the Status page on the web user interface. If you find the signal strength is weak, try moving the router to a different place, mounting it differently or changing the orientation of the antennas.

The signal strength LEDs update within a few seconds with a rolling average signal strength reading. When selecting a location for the router, please allow up to 20 seconds for the signal strength LEDs to update before repositioning.

Step 4

Connect power to your router using one of the following options.

1. DC power via the four-way connector

Remove the attached green terminal block from your router and connect to the router's power socket using a DC power supply, sold separately.

2. DC power via field terminated power source

If an 8-40V DC power supply is available, you can insert the wires into the supplied terminal block to power your router. Use a flathead screwdriver to tighten the terminal block screws and secure the power wires, making sure that you have correctly wired the terminal block as illustrated below. You should avoid using DC cables greater than 2 metres in length.
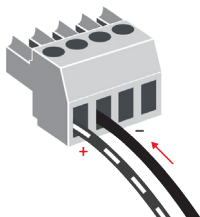
TERMINAL	DESCRIPTION
⊕	Positive wire for power
⊖	Ground Wire
i	Dedicated terminal for ignition detection
1	One terminal used for input/output detection (Please refer to the User Guide and SDK Guide for more information).

The green power LED on the router lights up when a power source is connected.

Step 5

Connect equipment that requires network access to the LAN port of your router. You can connect one device directly, or several devices using a network switch. Switch on your power supply and wait 2 minutes for your Vodafone MachineLink 4G to start up and connect to the mobile network. Your router comes with preconfigured settings that should suit most customers.

Your router is now connected.

To check the status of your router, compare the LED indicators on the device with those listed opposite.

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Overview of LED indicators

LED ICON	LED	COLOUR	STATE	DESCRIPTION
⏻	Power		Off	Power off
			Double flash	Powering up
			On	Power on
			On	Power on in recovery mode
			Slow flashing	Hardware error
((A))	Network		On	Connected via WWAN
			Blinking[1]	Traffic via WWAN
			Slow flashing	Connecting PDP / Waiting for demand
			On	Registered network
			Slow flashing	Registering network
			Slow flashing	SIM PIN locked
			Fast flashing	SIM PUK locked
			On	Can't connect

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	Signal strength	🟩	On	LTE
		🟧	On	WCDMA signal
		🟥	On	GSM/GPRS signal
(((•)))	WiFi	◻	Off	Radio off
		🟩	On	WiFi Access Point or both WiFi Access Point and WiFi Client mode are enabled.
		▓	Blinking	Traffic via WiFi in AP, client or dual AP/client mode
		🟧	On	WiFi Client mode is enabled, WiFi Access Point is disabled
		▓	Blinking	Traffic via WiFi in client mode

1   The term "blinking" means that the LED may pulse, with the intervals that the LED is on and off not being equal. The term "flashing" means that the LED turns on and off at equal intervals.

Advanced configuration and troubleshooting

Depending on what you're using your router for, you may need to log into it via the web based configuration interface for status monitoring, troubleshooting or advanced configuration.

To access this interface, you'll need a computer with an Ethernet port and web browser (such as Internet Explorer, Chrome or Safari) installed.

Step 1
Make sure your Vodafone MachineLink 4G is turned on and disconnect any Ethernet connections.

Step 2
Attach the supplied yellow Ethernet cable 8P8C to the LAN Ethernet port on your router and the other to your computer. Access the user interface by entering http://192.168.1.1 into your web browser. Enter the username and password then click Log in.

There are two system management accounts (Root Manager and Admin) with different management capabilities.

Root Manager account
Grants full privileges such as firmware upgrades, device configuration, backup and restore, and reset to factory default settings. To access the Root Manager account, use these login details.

http://192.168.1.1 or http://my.router	
Username:	root
Password:	admin

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Admin account

Allows updates to general settings. To access the Admin account, use these login details.

http://192.168.1.1 or http://my.router	
Username:	admin
Password:	admin

Step 3

Once logged in you'll see the Status page. Here you can see an overview of information about the network your router is connected to (if any), signal strength and data connection status. You can access advanced configuration settings from the top menu.

For more information on advanced configuration, refer to the full product User Guide available from the Help link in the web configuration interface or from the NetComm Wireless website at **http://vodafone.netcommwireless.com**

Step 4

If the inserted SIM card is PIN locked, a pop-up window is displayed informing you that you must unlock the SIM before use.

You must enter your PIN code to unlock and use the SIM.

OK
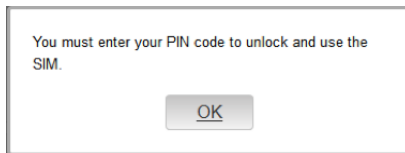
Click the **OK** button. The SIM Security page is displayed.

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PIN settings

In the Current PIN field, enter the SIM PIN and then enter it again in the Confirm current PIN field. If you do not want to enter the PIN code each time the SIM is inserted, select the Remember PIN option. Click the Save button. The router displays "Success! The SIM unlock was successful".

Step 5

If the SIM Status is OK, the Vodafone MachineLink 4G router automatically attempts to connect to the Internet by detecting the correct APN and connection details.

If automatic configuration was unsuccessful, you must manually enter the connection details.

To manually configure the connection profile:

1.   From the top menu bar, select the Networking option.

2.   Next to Profile1, click the ✎ Edit button. The Data connection profile settings screen is displayed.

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3. Ensure that the Automatic APN selection toggle key is set to the OFF position. (Not required when using a Vodafone GDSP SIM)

Automatic APN selection   0

4. In the APN field, enter the APN name that your carrier requires for mobile broadband connection. If required, enter the Username and Password in the Username and Password fields. Click the Save button.

The connection profile is now configured.

Verifying the connection status

Click on the Status menu item from the top menu bar. The Status page is displayed. The mobile broadband connection is established successfully if the Status field in the Packet data connection status section displays Connected.

Packet data connection status

Profile name	WWAN IP	APN
Profile1	10.97.15.73	Blank
Status	DNS server	Connection uptime
Connected	62.140.138.233	00:00:00
Default profile	62.140.140.251	
Yes		

Show data usage
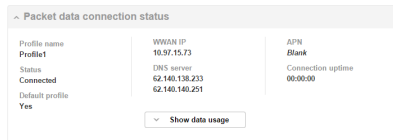
Wireless LAN connection

The MachineLink 4G router can operate as both an access point and a WiFi client simultaneously, if required. By default the MachineLink 4G router has the wireless access point disabled. If you want to use this functionality you must enable it first.

To enable the wireless access point on the MachineLink 4G router:

1. From the top menu bar, select the Networking option.

2. Select Wireless settings on the left, then select the AP basic settings menu item.

3. Click the AP mode toggle key so that it is in the ON position then click the Save button.

AP mode

The wireless access point is enabled. Continue to the next section to connect a wireless client to the MachineLink 4G access point.

Connecting a wireless client to the MachineLink 4G access point

The WiFi Network Name (SSID) and WiFi Security Key are unique for your device and are printed on the back of your MachineLink 4G router. The credentials are also printed on the WiFi Activation Card.

Follow these steps to connect your client device to the Internet over the wireless network:

1. Turn on the wireless radio on your client device.

2. Open the wireless network manager on your client device and connect to the Wireless Network Name (SSID) printed on the Wireless activation card.

3. When prompted for your wireless security settings, enter the WiFi Key. Wait a few seconds for the connection to be established.

4. Confirm that it is connected by viewing the WLAN AP status section of the Status page.

Connecting the MachineLink 4G router to another access point

To use your MachineLink 4G router as a client, you must first change the wireless mode on the web user interface. To enable the wireless client:

1. From the top menu bar, select the Networking option.

2. Select Wireless settings on the left, then select the Wireless client menu item.

3. Click the Client mode toggle key so that it is in the ON position then click the Save button.

4. On the Wireless client configuration page, click the Scan button to scan for remote access points to connect to, then click the Connect link corresponding to the desired network. The wireless network's details are copied to the Wireless client configuration fields.

5. If the network requires a password, enter the password in the Network key/WPA pre-shared key/Private key passphrase field, then click the Save button. The wireless client connects to the access point. You can confirm that it is connected by viewing the WLAN client connection status section of the Status page.

For further detail on using the wireless client, refer to the product user guide.

Mounting your device

Depending on your individual setup, you may need certain components to mount your device correctly, such as:

● A Flathead screwdriver for terminating power input wires.

● Additional fasteners and screwdrivers for specific wall or rail mounting.

Mounting options

The Vodafone MachineLink 4G router can be installed quickly and easily in a variety of locations.

MOUNT TYPE	DESCRIPTION	BENEFITS
Wall mount	1. Flat against the wall	● Slimline form factor, close to wall
	2. Perpendicular to the wall	● Small wall footprint
	3. Mounted via DIN rail bracket	● Easy to remove
C Section DIN rail mount	Slide onto a rail	● Simplicity
Top hat DIN rail mount	Mount on a bracket and slide onto a rail	● Simplicity ● Can mount in between other devices
Desk mount	Stand on a desk	● Simplicity, versatility

Wall mount

1. Flat against the wall

2. Perpendicular to the wall
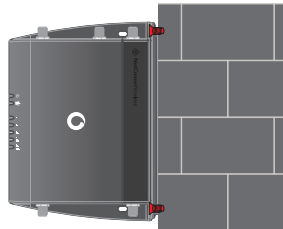
3. Mounted via DIN Rail Bracket

DIN Rail mounting bracket

Push to release
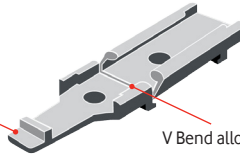
V Bend allows you to snap the DIN bracket onto the middle of a DIN rail, rather than sliding it onto the end

C Section DIN rail mount
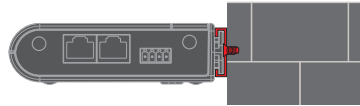
Top hat DIN rail mount
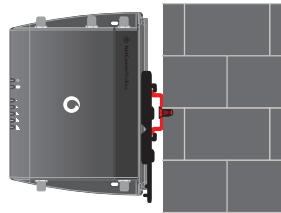
Desk mount
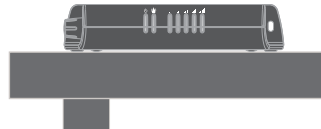
Configuring multiple devices
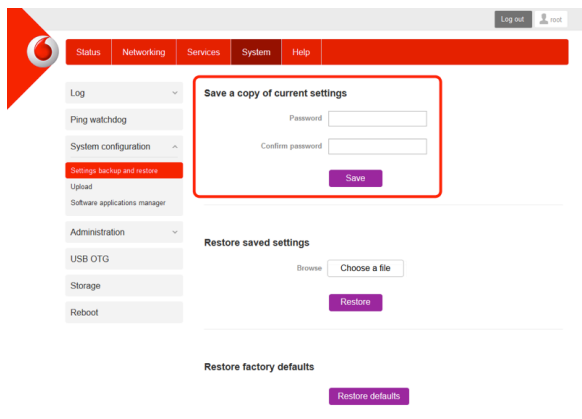
To apply your advanced configuration settings to more than one MachineLink 4G router, follow these simple steps.

Step 1
Back up your router's configuration

Log in to the web configuration interface, click on the System menu, select System configuration and click on Settings backup and restore.

If you want to password protect your backup configuration files, enter your password in the fields under Save a copy of current settings and click on Save. If you don't want to password protect your files, just click on Save. The router will then prompt you to select a location to save the settings file.

Step 2
Restore your backup configuration

In the web configuration interface click on the System menu, select System configuration and click on Settings backup and restore.

From the Restore saved settings section, click on Choose a file and select the backup configuration file on your computer.

Click Restore to copy the settings to the new MachineLink 4G router. The router will apply these settings and inform you it will reboot - click on OK.

Tip: Don't change the file extension of the backup file as this may cause it to corrupt.

Safety and Product Care
Vodafone MachineLink 4G

Table of contents

Open Source Disclaimer

This product contains Open Source software that has been released by the developers of that software under specific licensing requirements such as the "General Public License" (GPL) Version 2 or 3, the "Lesser General Public License" (LGPL), the "Apache License" or similar licenses. For detailed information on the Open Source software, the copyright, the respective licensing requirements and ways of obtaining the source code, please log in to the web configuration interface and click on the Help section.

RF exposure

Your device contains a transmitter and a receiver. When it is on, it receives and transmits RF energy. When you communicate with your device, the system handling your connection controls the power level at which your device transmits.

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. To ensure compliance with RF exposure guidelines the device must be used with a minimum of 20cm separation from the body. Failure to observe these instructions could result in your RF exposure exceeding the relevant guideline limits.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Tout gain d'antenne externe doit répondre l'exposition aux radiofréquences et les limites de puissance de sortie maximum rayonnée de la section de la règle applicable. Le gain maximal de l'antenne de cet appareil est:

- WWAN: 3.74 dBi (2500-2690MHz)
- WLAN: 2dBi
- Type d'antenne WLAN: Antenne dipolaire

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée quivalente (p.i.r.e.) ne dépassepas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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Le présent émetteur radio FCC ID: XIA-NWL2202, IC: 8847A-NWL2202 a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessus et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

External antenna

Any optional external antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operated in conjunction with any other antenna or transmitter. Please consult the health and safety guide of the chosen antenna for specific body separation guidelines as a greater distance of separation may be required for high-gain antennas.

Any external antenna gain must meet RF exposure and maximum radiated output power limits of the applicable rule section. The maximum antenna gain for this device as reported to the FCC is:

- WWAN: 3.74 dBi (2500-2690MHz)
- WLAN: 2dBi
- WLAN antenna type: Dipole antenna

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication

This radio transmitter FCC ID: XIA-NWL2202, IC: 8847A-NWL2202 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

This device has been tested to and conforms to the regulatory requirements of the European

CE approval (European Union)

Union and attained CE Marking. The CE Mark is a conformity marking consisting of the letters "CE." The CE Mark applies to the products regulated by the central European health, safety and environmental protection legislation. The CE Mark is obligatory for products it applies to: the manufacturer affixes the marking in order to be able to sell their product in the European market.

The wireless device is approved to be used in the member states of the EU. NetComm Wireless declares that the wireless device is in compliance with the essential requirements and other relevant provisions of the Radio and Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE Directive). Compliance with this directive implies conformity to the following European Norms – EN 60950-1 – Product Safety, EN 301 489 EMC, EN301511 GSM RF, EN301908-1 UMTS RF, EN301908-13 LTE RF, EN 62311 SAR Technical requirement for radio equipment. A notified body has determined that this device has properly demonstrated that the requirements of the directive have been met and has issued a favourable certificate of expert opinion. As such the device will bear the notified body number 1588 after the CE mark.

The CE Marking is not a quality mark. Foremost, it refers to the safety rather than to the quality of the product. Secondly, CE Marking is mandatory for the product it applies to whereas most quality markings are voluntary.

$C\epsilon$ 1588

Marking: The product shall bear the CE mark, the notified body number(s) as depicted to the left.

This product has also passed the following certification standards –

Health (Article 3.1(a) of the R&TTE Directive)
- EN 62311: 2008 ; EN 50385 :2002

Safety (Article 3.1(a) of the R&TTE Directive)
- EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005 2nd edition + am1 (2009) + am 2 (2013)

Electromagnetic compatibility (Article 3.1 (b) of the R&TTE Directive)
- EN 301 489-1 V1.9.2, EN 301 489-3 V1.6.1, EN 301 489-7 V1.3.1
- EN 301 489-17 V2.2.1
- EN 301 489-24 V1.5.1
- EN 55022:2010/ AC:2011 Class B, EN55024: 2010
- EN 61000-3-2:2006/A1:2009/A2:2009, EN 61000-3-3:2008

Radio frequency spectrum usage (Article 3.2 of the R&TTE Directive)

- EN 301 511 V9.0.2, EN 301 908-1 V6.2.1, EN 301 908-2 V6.2.1
- EN 300 440-1 V1.6.1, EN 300 440-2 V1.4.1
- EN 300 328 V1.9.1

RoHS Directive (2011/65/EU)

- EN 50581: 2012

NOTE: To comply with the RF exposure requirements, this equipment must be operated with a minimum of 20 cm separation from the user.

This is a regulatory requirement and applies to all 2G/3G/4G/WiFi capable devices meeting standard regulatory compliance such as the compliance standards listed above.

FCC Statement

FCC compliance

Federal Communications Commission Notice (United States): Before a wireless device model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure.

FCC regulations

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorientate or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC regulations

CAN ICES-3(B)/NMB-3(B)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

This Class B digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IMPORTANT NOTE:

IC radiation exposure statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and users body.

Electrical safety

Accessories

Only use approved accessories.
Do not connect with incompatible products or accessories.

Connection to a car

Seek professional advice when connecting a device interface to the vehicle electrical system.

Distraction

Operating machinery

Full attention must be given to operating the machinery in order to reduce the risk of an accident.

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Product handling

You alone are responsible for how you use your device and any consequences of its use.

You must always switch off your device wherever the use of a mobile phone is prohibited. Do not use the device without the clip-on covers attached, and do not remove or change the covers while using the device. Use of your device is subject to safety measures designed to protect users and their environment.

- Always treat your device and its accessories with care and keep it in a clean and dust-free place.
- Do not expose your device or its accessories to open flames or lit tobacco products.
- Do not expose your device or its accessories to liquid, moisture or high humidity.
- Do not drop, throw or try to bend your device or its accessories.
- Do not use harsh chemicals, cleaning solvents, or aerosols to clean the device or its accessories.
- Do not paint your device or its accessories.
- Do not attempt to disassemble your device or its accessories, only authorised personnel must do so.
- Do not use or install this product in extremely hot or cold areas. The supported operating temperature ranges are:
  Class A: -30°C to +70°C
  Class B: -40°C to +85°C (with possible performance deviation)
- Do not use your device in an enclosed environment or where heat dissipation is poor. Prolonged use in such space may cause excessive heat and raise ambient temperature, which will lead to automatic shutdown of your device or the disconnection of the mobile network connection for your safety. To use your device normally again after such shutdown, cool it in a well-ventilated place before turning it on.
- Please check local regulations for disposal of electronic products.
- Do not operate the device where ventilation is restricted
- Installation and configuration should be performed by trained personnel only.
- Do not use or install this product near water to avoid fire or shock hazard. Avoid exposing the equipment to rain or damp areas.
- Arrange power and Ethernet cables in a manner such that they are not likely to be stepped on or have items placed on them.
- Ensure that the voltage and rated current of the power source match the requirements of

the device. Do not connect the device to an inappropriate power source.

Children

Do not leave your device and its accessories within the reach of small children or allow them to play with it.

They could hurt themselves or others, or could accidentally damage the device.

Your device contains small parts with sharp edges that may cause an injury or which could become detached and create a choking hazard.

Emergency & other situations requiring continuous connectivity

This device, like any wireless device, operates using radio signals, which cannot guarantee connection in all conditions. Therefore, you must never rely solely on any wireless device for emergency communications or otherwise use the device in situations where the interruption of data connectivity could lead to death, personal injury, property damage, data loss, or other loss.

Device heating

Your device may become warm during normal use.

WEEE approval

The wireless device is approved to be used in the member states of the EU. NetComm Wireless declares that the wireless device is in compliance with the essential requirements and other relevant provisions of the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE Directive).

Faulty and damaged products

Do not attempt to disassemble the device or its accessories.

Only qualified personnel must service or repair the device or its accessories.

If your device or its accessories have been submerged in water punctured or subjected to a severe fall, do not use until they have been checked at an authorised service centre.

Interference

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

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 15cm be maintained

between a device and a pacemaker to avoid potential interference with the pacemaker.

Hearing aids

People with hearing aids or other cochlear implants may experience interfering noises when using wireless devices or when one is nearby.

The level of interference will depend on the type of hearing device and the distance from the interference source, increasing the separation between them may reduce the interference. You may also consult your hearing aid manufacturer to discuss alternatives.

Medical devices

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

Hospitals

Switch off your wireless device when requested to do so in hospitals, clinics or health care facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

Interference in cars

Please note that because of possible interference to electronic equipment, some vehicle manufacturers forbid the use of devices in their vehicles unless an external antenna is included in the installation.

Explosive environments

Petrol stations and explosive atmospheres

In locations with potentially explosive atmospheres, obey all posted signs to turn off wireless devices such as your device 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

Turn off your device or wireless device when in a blasting area or in areas posted turn off "two-way radios" or "electronic devices" to avoid interfering with blasting operations.

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