# Nokia Bluetooth GPS Module LD-4W User Guide

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# **C€** 0560

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Issue 1

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# 1. Introduction

With the Nokia Bluetooth GPS Module you can determine your current position and direction easily. The GPS module uses Bluetooth wireless technology to communicate positioning information to a compatible device, such as a mobile phone or PC.

To use the GPS module, you need a compatible software application on the device that you connect to it.

Read this user guide carefully before using the GPS module. Also read the user guide for the device that you connect to the module.

Keep all accessories and enhancements out of reach of small children.

### ■ Water-resistance

You can use this device in the rain, but do not submerge it in water.

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If the device has been exposed to sweat or salt water, wipe it immediately with freshwater to avoid corrosion. The device must be carefully wiped dry.

# ■ Bluetooth wireless technology

Bluetooth wireless technology allows you to connect compatible devices without cables. The GPS module and a compatible device do not need to be in line of sight, but they should be within 10 meters (33 feet) of each other. Connections may be subject to interference from obstructions, such as walls, or other electronic devices.

The GPS module complies with the Bluetooth Specification 2.0 + EDR that supports the Serial Port Profile 1.1. Check with the manufacturers of other devices to determine their compatibility with this device.

There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or service provider.

### About the GPS

The GPS (Global Positioning System) is a worldwide satellite-based radio navigation system.

The GPS module can calculate its location to an accuracy of 10 meters (33 feet). The accuracy depends on the number of GPS satellites to which the GPS module is in a line of sight. In optimal conditions, the accuracy may be within a few meters

If you stand still, GPS cannot detect which way you are facing because it determines your direction as you move.

Almost all digital cartography is inaccurate and incomplete to some extent. Never rely solely on the cartography provided for use with this device.

The use of the GPS module requires the module and your compatible device to be switched on. Do not switch on your device where it may cause interference or danger.

The GPS is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The accuracy of location data can be affected by adjustments to GPS satellites made by the United States

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government and is subject to change with the United States Department of Defense civil GPS policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry. Availability and quality of GPS signals may be affected by your location, buildings, natural obstacles, and weather conditions. The GPS module should only be used outdoors to allow reception of GPS signals.

GPS should only be used as a navigation aid. It should not be used for precise location measurement and you should never rely solely on location data from the GPS module for positioning or navigation.

# 2. Get started

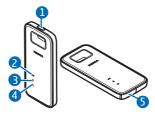
Before you can start to use the GPS module, you must do the following:

- Install a compatible GPS application on the device that you connect to the GPS module.
- Charge the battery of the GPS module fully.
- · Pair the compatible device with the GPS module.

Some Nokia devices, such as the Nokia 9500 Communicator, have a location privacy setting. To provide GPS location data to applications in such a device, you must set the device to accept requests for location information.

### Parts

The GPS module contains the following parts: power key (1), GPS indicator light (2), Bluetooth indicator light (3), battery charge indicator light (4), and charger connector with a cover (5).



# Chargers

Check the model number of any charger before using it with this GPS module. The GPS module is intended for use with the AC-3, AC-4, AC-5, and DC-4 chargers.



**Warning:** Use only chargers approved by Nokia for use with this particular enhancement. The use of any other types may invalidate any approval or

warranty and may be dangerous.

When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

# ■ Charge the battery

The GPS module has an internal, nonremovable, rechargeable battery. Do not attempt to remove the battery from the GPS module, as you may damage it.

- 1. Connect the charger to a wall outlet.
- Open the cover of the charger connector, and connect the charger cable to the connector. The GPS module switches on.



During charging, the battery charge indicator light flashes red (if the module is off) or alternates green and red (if the module is on). It may take a while before charging starts. If charging does not start, disconnect the charger, plug it in again, and retry.

#### Get started

Charging the battery for 15 minutes provides about 6 hours of operating time with the AC-4, AC-5, and DC-4 chargers. Charging the battery fully may take up to 1 hour.

When the battery is fully charged, the indicator light turns green. Disconnect the charger from the GPS module and the wall outlet.

The fully charged battery has power for up to 11 hours of operating time. However, the operating time may vary when used with different compatible Bluetooth devices, usage settings, usage styles, and environments.

When battery power falls low, the battery charge indicator light starts to flash red. Recharge the battery.

# 3. Basic use

### Switch on

To switch on, press and hold the power key for one second until the battery indicator light starts to flash green.

It takes some time for the module to position itself, depending on how long it has been switched off and how well it can receive the satellite signals. In optimal conditions, the start-up takes about one minute. When the module is receiving satellite signals, the GPS indicator light flashes white.

When the module is not connected to another device, to set the module to check the availability of GPS satellites, press the power key briefly.

The antenna of the GPS module is located under the Nokia logo, and it should face upwards. Some car windshields and windows may contain metal, which may block or weaken the satellite signals.

#### Basic use

### Switch off

To switch off, press and hold the power key until the battery indicator light flashes red briefly. If the GPS module is not connected to a charger or a paired device within about 1 hour, it switches off automatically.

### Pair with another device

Before you can use the GPS module, you must pair it with a compatible device.

With some GPS applications, you can pair and connect the GPS module within the application without using the Bluetooth menu of your device. See the user guide of the GPS application.

If you have previously connected other GPS devices to your phone, remove their pairings from the device before pairing the GPS module.

To pair the GPS module in the Bluetooth menu, do the following:

 Ensure that the GPS module and your compatible device are switched on.

- Activate the Bluetooth feature on the device, and set it to search for Bluetooth devices.
- Select the GPS module (Nokia LD-4W) from the list of found devices
- Enter the passcode 0000 to pair and connect the GPS module to your device. In some devices you may need to make the connection separately after pairing. You only need to pair the GPS module with your device once.
- 5. Start using the GPS application.

When the GPS module is connected to your device, the Bluetooth indicator light flashes blue.

You can pair the GPS module with up to eight compatible devices, but you can connect it to only one at a time.

If you need to disconnect the GPS module, switch it off, or disconnect it in the Bluetooth menu of the device or in the application that you used to establish the connection.

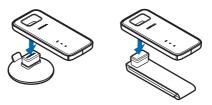
# ■ Support for WAAS/EGNOS

The GPS module supports the WAAS/EGNOS system. To use the system, your GPS application needs to support it as well. For details, see the user guide for your GPS application.

# ■ Suction cup and belt clip

The GPS module is supplied with a suction cup and a belt clip.

To attach the suction cup or belt clip, plug it to the opening on the module



To use the suction cup, press it firmly on a flat surface to create a vacuum between the cup and surface. Check that

the cup is firmly attached. To detach the cup from the surface, pull the strap located on the edge of the suction cup.

To detach the suction cup or belt clip from the GPS module, push the cup or clip through the opening with your thumb, and carefully pull it from the module.

# Key ring

The GPS module is supplied with a key ring. To attach the key ring, clip it into the opening on the module.



# Clear settings or reset

To clear all the pairing settings from the GPS module, press and hold the power key (for about 10 seconds) until the battery charge indicator light alternates red and green.

To reset the GPS module if it stops functioning, although it is charged, press and hold the power key and, at the same time, plug the GPS module into a charger.

# 4. Battery information

Your device is powered by a rechargeable battery. The battery can be charged and discharged hundreds of times, but it will eventually wear out. Recharge your battery only with Nokia approved chargers designated for this device.

Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

Never use any charger that is damaged.

Leaving the device in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

### Battery information

Do not dispose of batteries in a fire as they may explode. Batteries may also explode if damaged.

# Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- · Do not attempt to open the device.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.

#### Care and maintenance

 Do not paint the device. Paint can clog the moving parts and prevent proper operation.

All of the above suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.