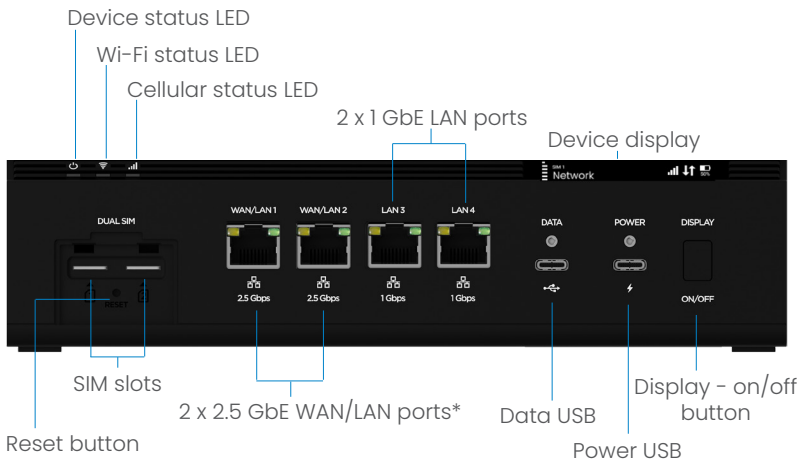# Inseego Wavemaker™
5G Cellular Router FX4200
Quick Start Guide
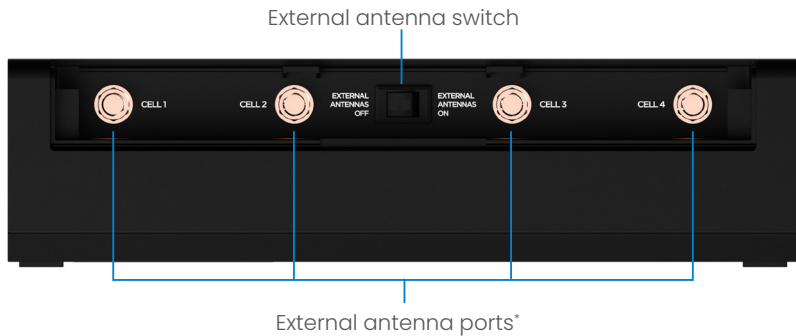
FX4200 front

Device status LED

Wi-Fi status LED

Cellular status LED

2 x 1 GbE LAN ports

Device display

DUAL SIM

RESET

WAN/LAN 1   WAN/LAN 2   LAN 3   LAN 4

2.5 Gbps   2.5 Gbps   1 Gbps   1 Gbps

DATA

POWER

DISPLAY

ON/OFF

SIM 1
Network

SIM slots

2 x 2.5 GbE WAN/LAN ports*

Data USB

Display - on/off button

Reset button

Power USB

* 2.5 GbE Ethernet ports can be configured as WAN or LAN in the admin web UI **Network > Ethernet** tab, or with Inseego Connect **WAN Settings**.

FX4200 back

External antenna switch

CELL 1   CELL 2   EXTERNAL ANTENNAS OFF   EXTERNAL ANTENNAS ON   CELL 3   CELL 4

External antenna ports*

* When enabled, each external antenna port supports the full cellular frequency range of 0.6-6 GHz. To activate the external antenna ports, turn the switch to **EXTERNAL ANTENNAS ON**.

Device LEDs

LED	Color		Operation	Meaning
Device status	Blue		Solid	Device on 5G
	Green		Solid	Device on LTE
	Yellow		Solid Blinking	Software update is available Software update is downloading/installing
	White		Solid Blinking	Device on, Ethernet WAN Device booting up
	Red		Solid Blinking	Device error Software update failed
Wi-Fi status	Blue		Solid Blinking	Wi-Fi on, mesh Mesh pairing mode
	Green		Solid	Wi-Fi on, no mesh
	White		Blinking	Wi-Fi initiating/rebooting
	Red		Solid	Wi-Fi error
	Off		Off	Wi-Fi off
Cellular status	Blue		Solid	Great signal (5 bars)
	Cyan		Solid	Good signal (4 bars)
	Green		Solid	Fair signal (3 bars)
	Yellow		Solid	Poor signal (2 bars)
	Red		Solid Blinking	Very poor signal (1 bar) No signal/no network
	White		Blinking	Searching for signal

Using the device display

The device display provides device information, alerts and allows you to perform actions, like pair with a mesh node or check for a firmware update.

Navigate through the display with the display button:

- **Short press (<1 second)** - cycles through the display options.
- **Long press (>3 seconds)** - initiates an action or accesses/exits a submenu.

The menu icon on the left shows you where you are in the main menu.

The scroll icon on the bottom of a submenu shows you where you are in the submenu.

An X appears over the signal strength icon when no network is found.

An X appears on the data arrows icon when there is no data traffic.

An antenna icon appears when the external antenna switch is on.

Setting up your router

Step one: install SIM cards

NOTE: If you received the router from your service provider, the device manufacturer may have pre-installed a SIM card. Please inspect the SIM slots on the front of the device to confirm.

- Remove the cover on the front of the router.

- Insert a Nano SIM card into the appropriate SIM slot on the front of the device.

SIM slots

NOTE: If necessary, remove the SIM from its protective sleeve, being careful not to touch the metallic contact points. **Insert the SIM card notch first, with the contact points facing down.** Press the card in until it clicks into place.

This device supports only Nano SIM cards.

Step two: power on the router

- Press the on/off button to power on with the battery.
  or
- Plug the USB C cable into the router's power port. Then plug the other end into the AC adapter, or a USB-powered delivery hub or USB power delivery (PD) host equipment.

  Location suggestions:
  - On or above ground level (not in a basement)
  - Ideally on an exterior wall closest to the nearest cell tower
  - Near a window but not in direct sunlight
  - Clear from obstructions and interference from other electronics (maintain at least 2" from metal objects or electronic equipment)
  - Outside of cabinets or locations that can get excessively hot

Step three: wait

- Wait for the router to power on. This can take up to three minutes. You'll know it's powered on when the device display shows your cellular network and arrows indicating traffic is active.

  NOTE: The display times out after 60 seconds, if it is dark, press the display button.

- If you have fewer than four bars, adjust the location of the router until you have four or five bars and the cellular status LED is blue (5 bars) or cyan (4 bars).

  NOTE: You can now pair Mesh Wi-Fi X700. Go to go.inseego.com/x700 for guidance.

Step four: connecting wireless devices

To wirelessly connect a Wi-Fi-capable device (such as a PC, laptop, tablet, or phone) for the first time:

- Ensure the Wi-Fi status LED 📶 is green (or blue if mesh is enabled).

- On the device you want to connect, open the Wi-Fi settings or application and in the displayed list of available networks, find the **Primary Wi-Fi** network name printed on the bottom of your router.

- Click **Connect** or otherwise select the network name.

- When prompted, enter the **Primary Wi-Fi password** printed on the bottom of the router.

  You can change the default name or password to something easier to remember (see "Monitoring and managing your router").

Your Wi-Fi–capable device is now connected to the internet.

Monitoring and managing your router

You can use the following options to monitor and manage your router:

Admin web UI - Access the web UI at http://192.168.1.1 or http://inseego.local for a full set of device management features.

Inseego Connect - Inseego Connect is a multi-tiered device management platform that allows you to deploy, monitor, and manage Inseego IoT devices remotely. Go to connect.inseego.com to sign up for a free Inseego Connect account.

Inseego Mobile™ app - You can use the Inseego Mobile app to perform basic device monitoring and management.

NOTE: Passwords for Wi-Fi and the admin web UI are printed on the label of your router. We strongly recommend that you change your passwords before using your router.

Restoring factory settings

NOTE: When performing a factory reset, any changes made to settings will be lost.

To restore factory settings, follow these steps:

- Verify that your router is powered on.

- Press the **reset button** on the back of the router for five seconds. The device status LED ⏻ blinks white, then turns red. When the LED is solid white, green, or blue, your router is ready.

Inseego Mobile app requirements

Smartphone or device on iOS 13 or above, or Android 9.0 or above.

System requirements

Any device with Wi-Fi capability and an internet browser. The FX4200 cellular router is compatible with all major operating systems and the latest versions of browsers.

Support and more

Please reach out to your reseller or service provider.

More information
To access a user guide or online version of this guide, visit go.inseego.com/fx4200.

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