

Cel-Fi[™] COMPASS Quick Start Guide



Model Numbers: K03-100-100 (US version) K03-100-101 (Global version)

Main Features

- Software updates
- Full Signal Report Generation (.CSV Format)
- Signal Analysis (strength, quality, bandwidth, frequency, site identification)

Cel-Fi COMPASS is Nextivity's site survey and installation tool to allow integrators to install and optimize a Cel-Fi QUATRA without the need for local Internet Cel-Fi Connectivity. The UI for Cel-Fi COMPASS is Cel-Fi WAVE PRO.

Box Contents:

- Cel-Fi COMPASS unit
- Quick Start Guide
- WHIP antenna
- Power supply (charger)
- Soft Case
- Adapter pigtails (N and QMA)

LEDs



There are three LEDs on Cel-Fi COMPASS. These lights indicate if the device is:

- **Solid green:** device has power, is charged and the power adaptor is connected
- **Blinking green:** device is busy processing or is currently charging
- $\boldsymbol{\cdot}$ Solid red: there is a problem with the device
- · Blinking red: the battery is low

Quick Installation

IMPORTANT: Your **Cel-Fi COMPASS** is electronic equipment. The **Cel-Fi COMPASS** must be kept indoors and in a dry, cool, well ventilated area.



Connect the Whip Antenna

Connect the Whip Antenna to the MAIN port on the top of the unit.



CAUTION: Rotate the antenna only from the base clockwise. Ensure the connector is finger tight.





Insert SIM Card Insert an active SIM card in the slot at the bottom of the unit.





Download and Install Cel-Fi WAVE PRO App

Download and install the app Cel-Fi WAVE PRO available on both smartphones and tablets from the following app stores.











Connect Cel-Fi COMPASS and Cel-Fi WAVE PRO

- Make sure **Cel-Fi COMPASS** is powered on and the "Status" light is solid green.
- a) Enable Bluetooth in your phone and launch Cel-Fi WAVE PRO.
- **b)** If a device is found, the app will automatically connect to it and proceed. If multiple devices are found, then a list is displayed and you can select which device to connect to.
- c) Enter a name for your device, If you skip this option the serial number will be the name of your device.



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Cel-Fi COMPASS & Cel-Fi WAVE PRO are now linked and ready to operate

The Cel-Fi COMPASS and Cel-Fi WAVE PRO work together to improve cellular coverage installations.

Customers who want to setup their Cel-Fi QUATRA 1000 or 2000 to run in an offline mode can use this tool to activate, configure basic settings and update the system software.

For customers with the Cel-Fi Antenna Mount, the Antenna Pointing feature will find the best direction to aim donor antennas. Cellular coverage reports

and speed tests can be run on-site to help optimize Cel-Fi systems.



Connecting Power Cable

Identify the cable supplied with the unit. The USB-A connector should be inserted into the charger while the Micro-USB connector should be inserted into the COMPASS

Software Update There are two modes to this feature depending on what Cel-FiCOMPASS is connected to:

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USB-A

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Cel-Fi QUATRA 1000 / 2000

CEL-FI

R. 145

RJ45 to RJ45 Cable

SETUP MODE

- 1) Connect Cel-Fi COMPASS to the LAN using an ethernet cable.
- 2) In Cel-Fi WAVE PRO, select "Download Software". The app will check for updates in the cloud. An exclamation mark "!" will appear if there are software updates available. Follow the instructions on the screen of your phone to download the file to Cel-Fi COMPASS.

INSTALL MODE

- 1) Connect Cel-Fi COMPASS to the Cel-Fi OUATRA Network Unit with the appropriate cable.
- 2) Select "Cel-Fi QUATRA" or "Cel-Fi QUATRA (Fixed IP)" if a fixed IP has been setup already.
- 3) From the main menu select "Software Update", the app will display a table with the NUs and CUs attached and the current software versions. Press "Install Now" to start the software upgrade.

Antenna Pointing Algorithm

- 1) Make sure the Cel-Fi COMPASS is connected to the donor antenna using the SMA to N adaptor.
- 2) Set the antenna to a position on the mount then press the corresponding number in the app. Wait for the app to gather data to move the antenna to next position.

NOTE: Once the app has two or more data points, the app will recommend the strongest signal band

Cel-Fi OUATRA 4000





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MICRO-USE









Optimization Features

FULL SIGNAL REPORT

Press the "Start Test" button. The unit will gather data and present the results after a few minutes. The scanning process will be quicker and more accurate when a SIM card is installed.

SPEED TEST

Press the "Start Test" button. The Cel-Fi COMPASS will gather data for several minutes and display the results in a report format.*

OPERATOR SIGNAL

The Serving Cell Report is a live reading of the current Network Carrier of the SIM card inserted into the Cel-Fi COMPASS. The data will constantly refresh while on the page.*

***REQUIRED**: These features requires a SIM card to operate.



FAQ's

Do I need a SIM card to operate the COMPASS?

Yes, but for accurate reporting, an ACTIVE SIM card is needed per carrier, which means you must insert a separate SIM Card for each network operator.

What is the size of SIM card I should use with COMPASS?

The unit accepts standard SIM only. You'll need an adapter for micro and nano SIM cards.

Specifications
Band Support (K03-100-100 US version):
LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71
UMTS: B2/B4/B5
Band Support (K03-100-101 Global version):
LTE FDD:
B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
LTE TDD: B38/B39/B40/B41
UMTS: B1/B2/B4/B5/B6/B8/B19
 Rugged rubberized exo-skeleton
RP-SMA connectors
 Internal rechargeable battery (all day use)
Micro USB charger
• SIM slot (user accessible)
FCC certified
CE certified
 Connects to smartphone via Bluetooth



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