

# *MultiConnect® rCell 100 Series Router Installation Instructions*



## *Technical Bulletin*

April 2019

## About this document

This document describes the installation procedure of the MultiConnect® rCell 100 Series Router modem to support the conversion to 4G/LTE for the customers who use CCPILLOT XS and GD4010 platforms.

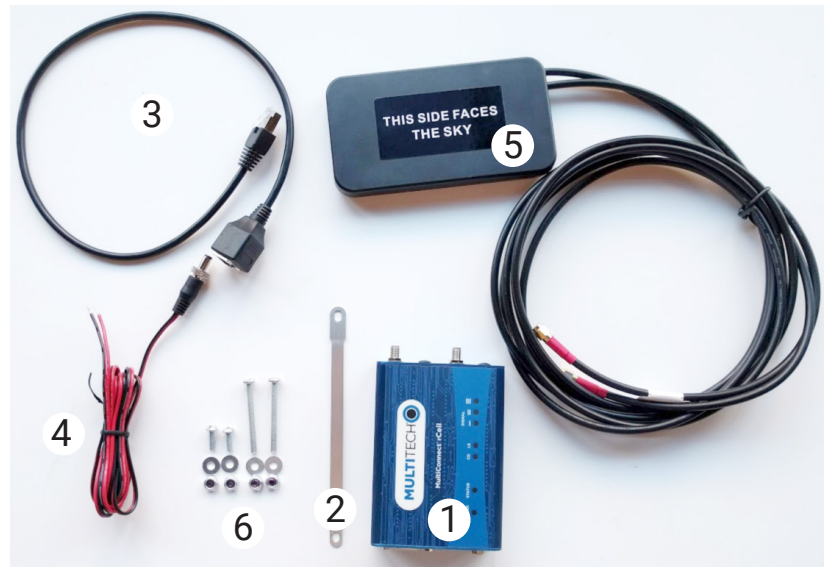
## Required tools and equipment

The modem kit contains the following components:

1. rCell 100 modem
2. Modem mounting rod
3. Female to male extension cable
4. Modem power cable
5. LTE MIMO antenna
6. Screw kit : 2 x 8 -32 \* 1 3/4 screws;  
2 x 8 - 32 \* 1/2 screws; 4 x washers;  
4 x hex lock nuts.

Additionally, you may need the following tools:

- A drill
- A Robertson type (square head) screwdriver



## Estimated time to complete

This procedure can be completed in approximately 30 minutes.

## LED indicators description

The following LED indicators can be found on the front of the modem:

- **POWER** - Stays on and still when the modem is connected to a power source.
- **STATUS** - Stays on and still during the boot cycle. Starts blinking when the modem is functioning normally.
- **SIGNAL** - The three LED indicators represent signal strength.
- **LS** (Line Status) - Turns on when the network covered is detected.
- **CD** (Carrier Detect) - Turns on after successful connection to the Internet.

## Safety instructions

### IMPORTANT:



Failure to follow the instructions in this document may result in personal injury and cause equipment damage.

Read these safety instructions carefully.

1. All cautions and warnings on the equipment should be noted.
2. Electrical power to the equipment must be disconnected before attempting to disconnect or connect cabling to the components.
3. **DO NOT OVER-TIGHTEN:** Never tighten GPS, cellular, or WLAN antenna connectors using tools. Finger-tighten only, using minimal hand strength.

## Installation requirements

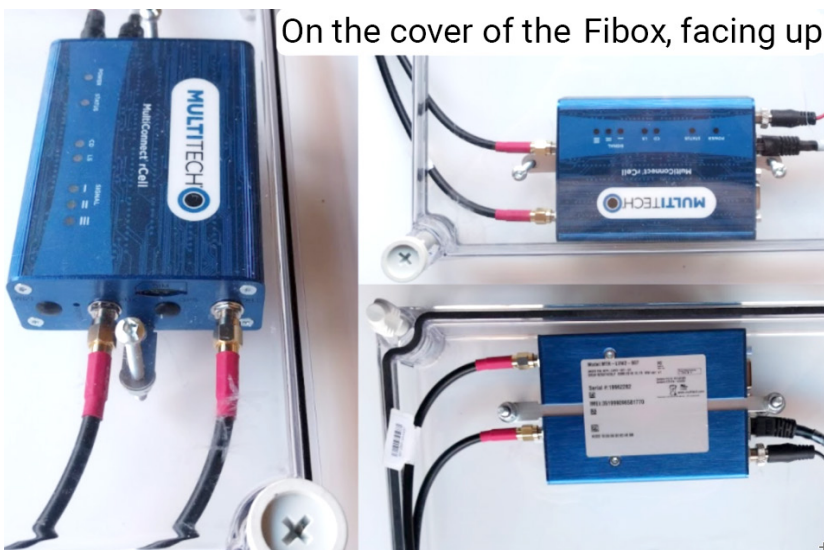
### Modem installation requirements

We recommend installing the modem inside of the Fibox enclosure where GD4010 terminal block is installed. LED indicators of the modem should face up so they can be seen through the Fibox cover.

Several mounting locations inside the Fibox can be considered:

- On one of the sides of the Fibox
- On the cover of the Fibox, facing up
- On the cover of the Fibox, facing down.

The following diagram illustrates one of the installation methods:



If there is not enough room inside, the modem can be installed outside of the Fibox, however, the location has to be secure so the cables and connectors are well protected.

## Antenna installation requirements

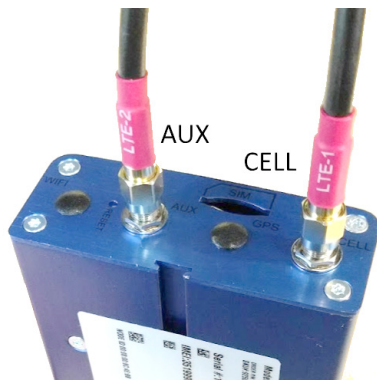
We recommend that the antenna is installed facing the sky on the dashboard near the windshield or in other location where nothing could potentially block or interfere with the signal transmission. The surface where antenna will be installed should be dry and clean to ensure good adhesion of the included adhesive pad.



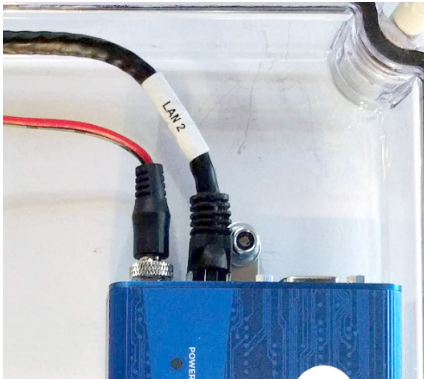
## Installation procedure

To install the modem, perform the following steps:

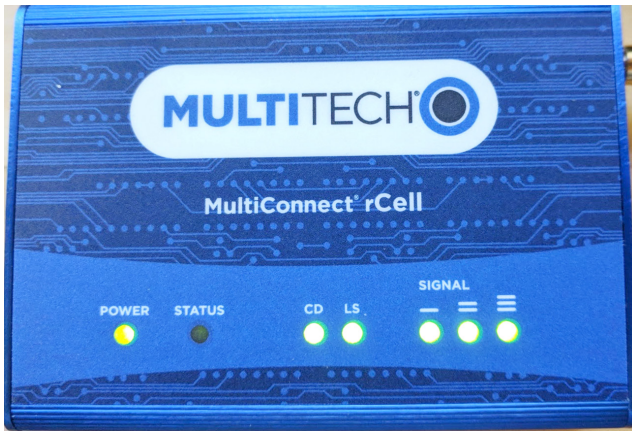
1. Hold the mounting rod flush to the chosen mounting surface to mark the location of two holes, and then drill the holes in the surface. This can be the Fibox cover or other suitable surface.
2. Slide the rod through the groove on the bottom of the modem, and then secure the rod to the mounting surface using the supplied machine screws and nuts.
3. Connect the LTE-1 antenna connector to the CELL port, and the LTE-2 antenna connector to the AUX port of the modem.



4. Connect the LAN2 connector of the GD4010 data cable to the Ethernet port of the modem. **NOTE:** Make sure you do not use the LAN1 connector.



5. Connect the power cable wires to the terminal block of GD4010 installed inside of the Fibox. The red wire should be connected to the 12 V power and the black wire to ground.
6. Plug the power cable into the modem and observe the LED indicators: when the modem connects to the power source, the Power LED will stay on.



7. Peel off the protective layer from the adhesive pad and apply it to the antenna's bottom surface.
8. Peel off the protective layer from the other side of the adhesive pad and then install the antenna on prepared surface, pressing down to ensure good adhesion.

## Support Information

### Contact customer service

- Technical Support: 1.888.639.1666
- General Enquiries: 1.888.639.1666
- Email: [support@fleetmind.com](mailto:support@fleetmind.com)

### Product information

For product information and related documentation, please visit the Safe Fleet Community:

- <https://community.seon.com/>

Please contact Technical Support if you do not have credentials to log in.