



QUICK DEPLOY GUIDE



CELL200-Series

4G LTE Cellular Module
For Private Dynamic IP Addresses



Part Number 35036
Revision: 02/2019



www.campbellsci.com/cellular-communications

1. Introduction

NOTE:

This Quick Deploy Guide is a general reference to give the installer an overview of the steps required to make this system operational. The Product Manual is the definitive source for detailed installation instructions and information.

For best results, update to the latest data logger operating system and version of Device Configuration Utility.

NOTE:

CR3000, CR1000 and CR800-series users must refer to the CELL200 Product Manual. This Quick Deploy Guide does not apply.

You should have received two Quick Deploy Guides with your CELL200-series module. The one you follow will depend on whether your module was configured with a private dynamic or public static IP address.

The Provisioning Report received with your Cellular Data Service shows whether the module was configured with a private dynamic or public static IP address. See [FIGURE 1-1](#) (p. 1) for an example of a Campbell Scientific Provisioning Report. Other cellular providers should provide similar information.

USE THIS GUIDE if your module has a private dynamic IP address.

Cellular Data Service Provisioning Report

The following device has been provisioned for Campbell Scientific Cellular Data Service.

Sales Order #	329081	Sales Order Due Date	03/23/2018
Sales Order Date	03/23/2018	Date Provisioned	03/23/2018
Company	Campbell Scientific Inc Marketing	Customer ID	00000
Address	1000 10th St NW	Contact	00000000
City	Flagstaff	Phone	000 000 0000
State	Arizona	Email	00000000@campbellsci.com
Country	United States		
Postal Code	86001-0000		
Hardware	CELL200	Datalogger (-40 to +70C)	CELL200 w/9G GSM -4T1B International 1B
Model #	CELL200-1B-A25		
Serial #	00000000		
Provision Code	CELLPROV4T1B	Cellular Data Modern Provisioning for User Supplied modem -4T1B International 1B	
Data Plan	CELLDATA-IT1B-A25	Campbell Scientific Cellular Data Service Subscription -4T1B International 1B -A25 25MB/Mon for 1 Yr	
Data Limit	25 MB	Network	International 1B
ICCID	0000000000000000	IP Address	Private Dynamic
MSISDN	0000000000000000	Konect Pro Bu, Ro Redemption Code	IP Address Private Dynamic
IMEI	0000000000000000		
Renewal Due Date		Service Period	04/01/2018 to 03/31/2019

FIGURE 1-1. Private dynamic IP provisioning report

Additionally, Campbell Scientific cellular modules configured with a private dynamic IP address will have one sticker on the module, as shown in [FIGURE 1-2](#) (p. 1). It will show the module phone number and data plan. **USE THIS GUIDE.**

Campbell Scientific cellular modules configured with a public static IP address will have two stickers on the module. One sticker will show the module phone number and data plan. The second sticker will show the static IP address. **USE THE OTHER GUIDE.**



FIGURE 1-2. Module with private dynamic IP address

2. Campbell Scientific cellular data service

Campbell Scientific can provide subscriptions to cellular service through Verizon, AT&T, T-Mobile, Vodafone, Telstra, and over 600 other providers worldwide. When this cellular service is purchased with the module, the module will come pre-provisioned with the required SIM card and APN. If you have already purchased the CELL200 series, call Campbell Scientific to set up service.

3. Install the SIM card

NOTE:

If you purchased cellular service from Campbell Scientific with the module, it will come with the SIM (Subscriber Identity Module) card already installed.

1. Remove the SIM card cover.
2. Note the location of the notched corner for correct alignment. The gold contact points of the SIM face down when inserting the SIM card as shown in [FIGURE 3-1](#) (p. 2). **Gently** slide the card into the slot until it stops and locks into place. To eject the SIM card, press it in slightly and release.
3. Replace the SIM card cover.

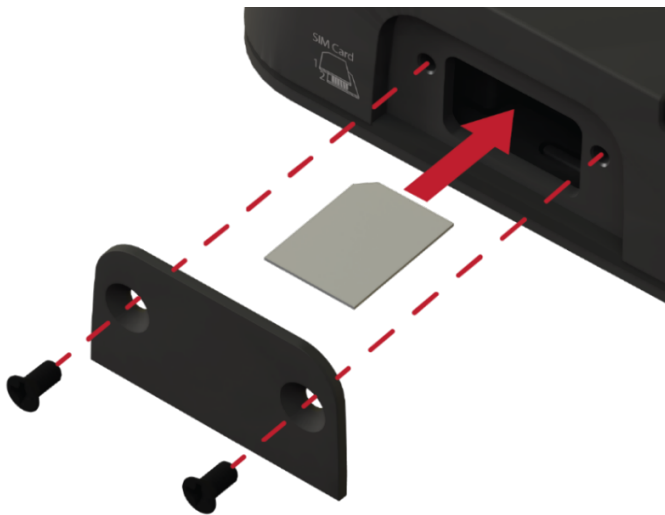


FIGURE 3-1. SIM card installation

4. Konect PakBus Router setup

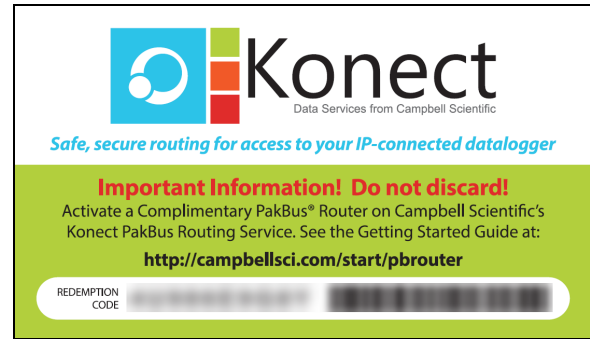
4.1 Get started

Open a web browser and go to www.konectgds.com.


First-time users need to create a **free account**. After you submit your information, you will receive two emails up to five minutes apart. One email will contain a Passport ID and the other your Password. If emails are not received, check your email junk folder.

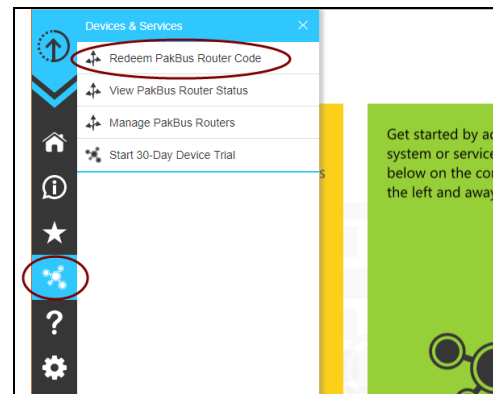


You will need the Konect PakBus Router redemption code that came on a card with the Campbell Scientific cellular module.



4.2 Set up Konect PakBus Router

1. Sign in to www.konectgds.com using your Passport ID and Password found in the two received emails. Once logged in, you will be at the Welcome page.
2. Click **devices and services**  on the command bar to the left and select **Redeem PakBus Router Code**. Enter your complimentary Router Code found on the included card with your cellular-enabled device and click **Submit**.



3. The next screen shows the assigned **DNS** address and **Port** for the router. An optional **TCP Password** may be entered for additional security, and you must select a unique **PakBus Address** for your data logger.

TIP:

Make note of this information for use in later steps.

5. Modules using Konect PakBus Router (private dynamic IP)

5.1 Set up hardware

1. Connect the **Cellular** antenna.
2. Connect your data logger to the CELL200-series module RS-232 or CS I/O port.
3. If not connecting through CS I/O, provide power to the CELL200 series.

5.2 Configure data logger

1. Connect to your data logger by using Device Configuration Utility.
2. On the **Datalogger** tab, change the data logger **PakBus Address** and optional **PakBus/TCP Password** to match the values entered in the Konect PakBus Router setup.
3. On the **Network Services** tab in the **PakBus/TCP Client** field, enter the DNS address and Port number noted during the Konect PakBus Router setup.
4. On the **PPP** tab, set **Config/Port Used** to **CS I/O SDC8** or **RS-232**, depending on how you are connected to the data logger.
5. (Optional) On the **PPP** tab, set **User Name** and **Password** if required by your cellular carrier (usually outside of the United States).
6. Verify the **Modem Dial String** setting is blank.
7. If connecting through RS-232, on the **Comport Settings** tab, set **RS232 BaudRate** to **115200 Fixed**.
8. Shut down Device Configuration Utility and start it again. This will activate the **Cellular** tab needed for the next step.

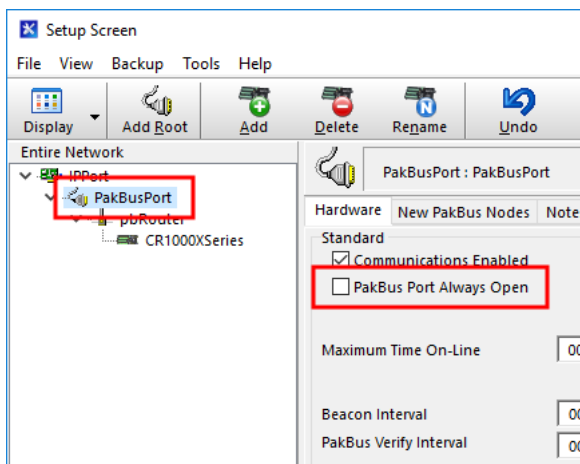
9. On the **Cellular** tab, enter the **APN** provided by your cellular provider.

10. Click **Apply** to save the changes.

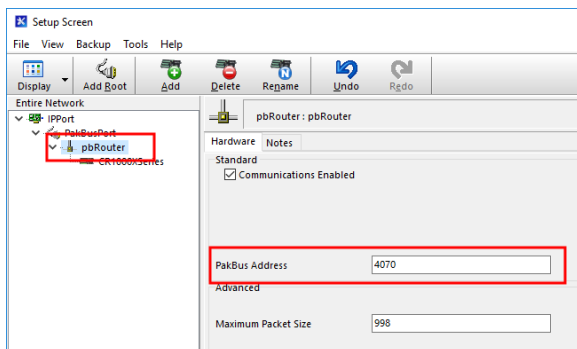
5.3 Set up LoggerNet

1. Select **Add Root > IPPort**.
2. Select **PakBusPort** and **pbRouter** for PakBus data loggers such as the CR1000X.
3. Add a data logger to the **pbRouter**.
4. Select the **IPPort** in the Network Map. Enter the Konect PakBus Router DNS address and port number as noted in the Konect PakBus Router setup. The DNS address and port number are input in the **Internet IP Address** field separated by a colon. For example, axanar.konectgds.com:pppp where pppp is the port number.

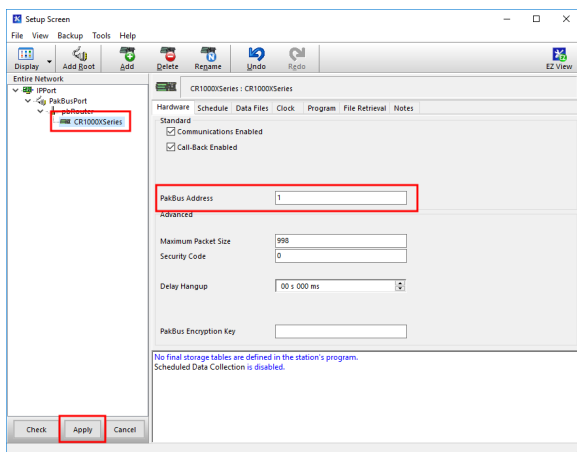
- For PakBus data loggers, leave the default settings for the **PakBusPort**. **PakBus Port Always Open** should **not** be checked. If used, enter the **TCP Password**.



- For PakBus data loggers, select the pbRouter in the Network Map and set the **PakBus Address** to **4070**.

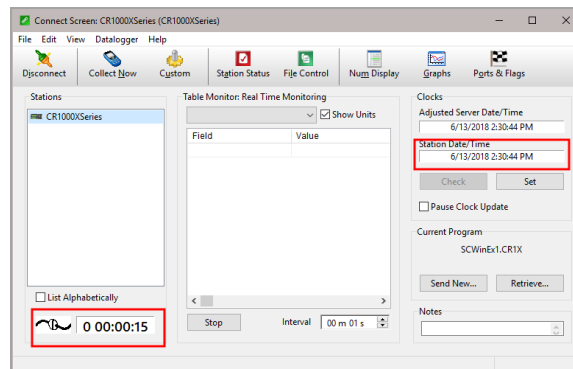


- For PakBus data loggers, select the data logger in the Network Map and set the **PakBus Address** to match that of the data logger (default address in the data logger is 1). Click **Apply** to save the changes.



is often less than 30 seconds but could be up to fifteen minutes. Be patient.

If the call is successful, the connectors at the bottom of the screen will come together and clock information from the data logger will be displayed in the **Station Date/Time** field.



5.4 Test the connection

Use the **Connect** screen to test the connection. Click on the appropriate station and click **Connect** to initiate a call to the data logger.

TIP:

The connection time is subject to many external factors. It