Konect PakBus® Router
PakBus Routing Service

Konect PakBus Router

Datalogger with Private-Dynamic IP Connection

LoggerNet or LoggerLink

Secure, Two-way, PakBus Communications over Private-Dynamic IP

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1. Introduction

Take advantage of the secure Konect PakBus® ¹ Router for on-demand two-way access to your data logger. The Konect PakBus router is a cloud-based service that acts as a bridge between an internet-enabled data logger and LoggerNet or LoggerLink datalogger support software.

This guide will walk you through the steps to:

1. Set up the Konect PakBus Router.
2. Configure a data logger.
3. Set up LoggerNet.

2. 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.

¹PakBus is a registered trademark of Campbell Scientific, Inc.
You will need the Konect PakBus Router redemption code that came on a card with the Campbell Scientific cellular module.

3. 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.

4. Click **Submit**.
5. To edit settings at a later date, click devices and services on the command bar and select Manage PakBus Routers.

NOTE: The DNS address and Port number, assigned when your account was setup, cannot be edited.

4. Configure data logger

The data logger setup depends on the type of cellular hardware you are using. Follow the instructions in the section that applies to your hardware configuration.

1. Data logger connected to a CELL200-series module
2. Data logger with an internal cellular module
3. Data logger connected to an RV50 modem
4.1 Data loggers connected to CELL200-series modules

1. Launch the Device Configuration Utility. All tabs are within the Deployment category. On the Datalogger tab, change the data logger PakBus Address and optional PakBus/TCP Password to match the values entered in the Set up Konect PakBus Router (p. 2) step.

2. On the Com Ports Settings tab, Select the COMPort where the module is connected; this is generally RS-232 or CS I/O. When connecting to the CS I/O port, the default address is SDC8. When connecting via RS-232, change the Baud Rate to 115200 Fixed.
3. On the PPP tab select the **Config/Port Used** where the modem is connected. This is the same as was selected on the **Com Ports Settings** tab. Leave the **Modem Dial String** blank.

![PPP Tab Image]

4. On the **Network Services** tab, in the **PakBus/TCP Clients** box, type the DNS address and Port number noted during the **Set up Konect PakBus Router** (p. 2) step.

![Network Services Tab Image]

5. **Apply** to save your changes.
4.2 Data loggers with internal cellular modules (CR300-CELL200)

1. Launch the Device Configuration Utility. All tabs are within the Deployment category. On the Datalogger tab, change the data logger PakBus Address and optional PakBus/TCP Password to match the values entered in the Set up Konect PakBus Router (p. 2) step.

2. On the Network Services tab, in the PakBus/TCP Clients box, type the DNS address and Port number noted during the Set up Konect PakBus Router (p. 2) step.

3. Apply to save your changes.
4.3 Data loggers connected to RV50 modems

1. Launch the Device Configuration Utility 📁. All tabs are within the Deployment category. On the Datalogger tab, change the data logger PakBus Address and optional PakBus/TCP Password to match the values entered in the Set up Konect PakBus Router (p. 2) step.

2. On the Com Ports Settings tab, Select the COMPort where the module is connected; this is generally RS-232 or CS I/O. When connecting to the CS I/O port, the default address is SDC8. When connecting via RS-232, change the Baud Rate to 115200 Fixed.
3. On the **PPP** tab select the **Config/Port Used** where the modem is connected. This is the same as was selected on the **Com Ports Settings** tab. Set **Modem Dial String** to AT\APPP.

![PPP tab screenshot](image1)

4. On the **Network Services** tab, in the **PakBus/TCP Clients** box, type the DNS address and Port number noted during the **Set up Konect PakBus Router** (p. 2) step.

![Network Services tab screenshot](image2)

5. **Apply** to save your changes.
5. Set up LoggerNet

1. In the Standard View of LoggerNet Setup, add an IPPort > PakBusPort > pbRouter, and data logger.

2. On the IPPort Hardware tab, select the Internet IP Address field. Enter the Konect PakBus Router DNS address and Port number separated by a colon as noted during the Set up Konect PakBus Router (p. 2).

**NOTE:**
Address format: dddd.konectgds.com:pppp
3. Leave the default settings for the PakBusPort, PakBus Port Always Open; it should not be checked. If you set an optional TCP Password, enter it on the PakBusPort Hardware tab.

4. Select pbRouter from the Entire Network. On the Hardware tab, enter 4070 in the PakBus Address box.
5. On the data logger **Hardware** tab, enter the **PakBus Address** chosen during the **Set up Konect PakBus Router** (p. 2) step.

6. **Apply** to save your changes.

7. Apply power to the data logger and cellular module. On the **Clock** tab, **Check Clocks**. When communications are successful, the **Station Date/Time** field will update.
6. Set up LoggerLink (optional)

LoggerLink mobile apps are another way to connect to your data logger through the Konect PakBus Router. When using LoggerLink the **PakBus Neighbor** setting must be set to **4070**.

![LoggerLink Configuration Screen]


7. Maintenance and troubleshooting

7.1 Review

1. You have created a free KonectGDS account. In this account, a complimentary Konect PakBus Router Code was redeemed and a router set up.
2. The data logger was configured to use the information received during the Konect PakBus Router setup. The data logger now maintains a connection with the Konect PakBus Router.
3. LoggerNet has been configured with information received during the Konect PakBus Router setup. LoggerNet can now connect through the Konect PakBus Router to the data logger.

### 7.2 Status

Check the connection status between the data logger and Konect PakBus Router.


2. Click **devices and services** on the command bar and select **View PakBus Router Status**.
3. The next screen shows the **DNS**, **Port**, and assigned **PakBus addresses**. Click **Show Status**.

![PakBus Router Status](image)

4. A **Connected** status indicates that the data logger has successfully established a connection to the Konect PakBus Router.

**NOTE:**
This does not indicate the communication status with LoggerNet.

![Konect PakBus® Router Network](image)

5. To troubleshoot a **Not Connected** status:
   - Verify the data logger and module have adequate power.
   - Verify the module is connected to the Internet.
   - Verify settings in the data logger are as described in **Configure data logger** (p. 4).
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