**2GIG** BY **Linear**®

2GIG-BRDG1-900

# Go!Bridge IP Communicator

## INSTALL INSTRUCTIONS

The Go!Bridge™ IP Communicator (2GIG-BRDG1-900) provides Internet connectivity between the monitoring service's Central Station and the Go!Control® Panel (requires the 900 MHz Transceiver (2GIG-XCVR)).

It supports automatic firmware updates, provides interactive security services, and increases supervision using signal-forwarding to the Central Station. To communicate wirelessly with the control panel, the 900MHz Transceiver Module (2GIG-XCVR) must be installed in the panel and the Go!Bridge must be connected to the local network router using an Ethernet cable (not provided).

### Box Contents

Verify that the package includes the following:
- 1—Go!Bridge
- 1—5-V DC USB Mini-B Power Supply
- 1—Stand

### Requirements

Before you install, program, and test the Go!Bridge, ensure the control panel being paired with the Go!Bridge meets these requirements:
- Firmware Version 1.12 (or higher)
- 2GIG-XCVR 900 MHz Transceiver

**NOTE:** To protect data sent via the local wireless network, is it recommended that you install the Go!Bridge on a local network where WPA (Wi-Fi Protected Access) or WEP (Wire Equivalent Privacy) Encryption is already enabled.

After installing, programming, and testing the Go!Bridge, you will need to register a new customer with the third-party monitoring service. See *Registration* on page 2.

**Figure 1** Go!Bridge Front View—LED Indicators and Learn Button
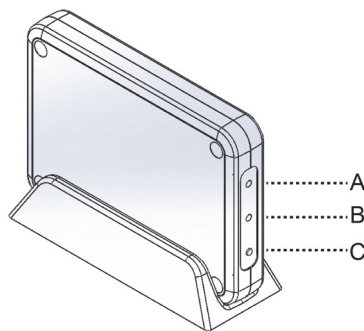


| A | Network LED |
|---|---|
| B | 900 MHz LED |
| C | Learn button |

### Powering ON the Go!Bridge

Use these steps to power ON the Go!Bridge:

**1** Ensure the Go!Bridge is connected to a power source.

**NOTE:** Do not connect an Ethernet cable to the Go!Bridge at this time. You will connect the cable when completing the steps in *Programming the Go!Bridge into the Control Panel*.

**2** (Optional) Place the stand (provided) on a counter, desktop, or other flat surface. Set the Go!Bridge in the stand.

**3** Verify that the two LEDs on the Go!Bridge illuminate in RED (see *Figure 1 Go!Bridge Front View—LED Indicators and Learn Button*).

**NOTE:** If the 900MHz LED illuminates in GREEN (the lower LED), verify that the network cable is not connected to the Go!Bridge. If the cable is disconnected and it is still illuminated GREEN, use the end of an open paperclip to press and release the recessed **Reset** button. The button is located inside the small hole on the port side of the Go!Bridge, directly above the Ethernet port. This restores the factory settings. See *Figure 2 Go!Bridge Rear View—Ports and Recessed Reset Button.*

**Figure 2** Go!Bridge Rear View—Ports and Recessed Reset Button
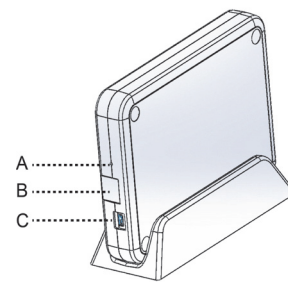


| A | Recessed Reset button |
|---|---|
| B | Ethernet port |
| C | Power supply port |

**4** After the Go!Bridge is powered ON, continue with *Programming the Go!Bridge into the Control Panel*.

### Programming the Go!Bridge into the Control Panel

Use these steps to place the control panel and Go!Bridge in learning mode. This gives the control panel the ability to learn the network settings transmitted by the Go!Bridge.

**NOTE:** To scroll between options on the control panel, tap the ← and → arrows. To move to the previous or next prompt tap the ↑ and ↓ arrows.

**1** Connect an Ethernet cable (not included) to the router and Go!Bridge.

**2** Ensure the control panel is powered ON. Then tap the Home ⏻ button.

**3** Tap the system logo in the lower-right corner of the control panel Home screen.

**4** At the **Enter Your Code** page, enter your 4-digit installer code to go to the **Installer Toolbox (page 1 of 2)** page.

**5** At the **Installer Toolbox (page 1 of 2)** page, tap **System Configuration**.

**6** At the **Q1: Select RF Sensor # (01 to 48)** page, tap **Go To**.

**7** At the **Enter Question Number (2 Digits)** page, enter **92**.

**8** At **Q92 Select Network Device (0 to 1)**, tap → to scroll to *(1) Go!Bridge.* Then tap ↓.

**9** At **Q: Network Device ID (Read Only)**, tap **Learn**. This gives the panel the ability to discover the read-only network device ID transmitted by the Go!Bridge.

At the **Pair with Xcvr Device** page, the "initiating learning process" message appears.

**10** On the Go!Bridge, press and release the learn button (this is the small, black plastic button on the LED side of the Go!Bridge below the 900MHz LED). This transmits the device ID to the control panel.

When the "learn operation succeeded" message appears and the panel displays the **Type** (Go!Bridge) and **ID#**, the Go!Bridge and panel are linked. The 900MHz LED on the Go!Bridge also flashes GREEN.

**11** At the **Pair with Xcvr Device** page, tap **OK**. Then tap ↓ to continue with *Configuring the Go!Bridge Settings* below.

### Configuring the Go!Bridge Settings

To configure the Go!Bridge settings:

**1** At the **Q: Select Configuration Source (0 to 1)** screen tap → to select the **(0) DHCP** setting. This assigns the Go!Bridge an IP Address on the local network. It is recommended that you tap **Next** to skip steps 2-3 and continue with step 4.

**2** If you tap ↓ (instead of **Next**) in step 1 above, the **Q: Select Port # (1 to 8)** page appears. Enter the port number for the third-party monitoring services' server. Then tap ↓.

**3** At **Q: Used (0 to 1)**, tap → to select one of these options:

- **(0) Disabled** (Recommended). This is the default setting. Then tap **Next** and skip to step 4.
  OR
- **(1) Enabled**. Then tap ↓. At the **Q: Enter Port Value (0-65535)** screen, tap ↓ to accept the default port value. Next, at the **Q: Enter Port Forward IP Address** screen, tap ↓ to accept the address configured by the provider. You can configure up to eight (8) ports. If you are finished configuring ports, tap **Next**.

**4** At the **Summary of Network Device** page, tap ↓. Verify the list of port numbers and forward IP addresses appears as programmed. Then tap **Skip**.

**5** At **Q93 Enter Broadband Network Failure Time (1 to 255)**, enter the desired number of minutes that must pass before a network failure triggers the control panel to issue a trouble alert. The default value is 30 minutes. Then tap ↓.

**NOTE:** A trouble alert consists of an audible beep and the control panel's Home screen displays a trouble message.

**6** At **Q94 Select Broadband Network Failure Report (0 or 1)**, tap → to select whether or not to report the broadband network failure to the monitoring service:

- **(1) Enabled.** This is the default setting. Network failures are reported to monitoring service.
  OR
- **(0) Disabled.** Network failures are not reported.

**7** Tap **End**.

**8** At the **Summary of System Configuration** page, verify the settings. Then tap **Save Changes**.

**9** Tap **Exit** to the close the System Configuration.

### LED Indicators

The table below details the LED colors for the Go!Bridge:

| Network LED | Globe Icon |
|---|---|
| Solid GREEN | Indicates the presence of an external network connection. |
| Flashing GREEN | Network cable is plugged in and IP address is actively being assigned. |
| Solid RED | Network cable unplugged. |
| **900 MHz LED** | **Icon Labeled "900MHz"** |
| Solid GREEN | Linked and communicating with the control panel. |
| Flashing GREEN | Linked to the control panel. Communication issues exist. |
| Solid RED | Not linked to the control panel, turns solid after a device reset. |
| Flashing RED | Not linked to the control panel. |

## Verifying the Settings

In addition to verifying the settings after configuring the Go!Bridge, you can also verify the settings at any time as follows:

**1** At the control panel Home screen, tap **Security**.

**2** Tap **Menu**.

**3** Tap **Toolbox**.

**4** In the **Enter Your Code to Access the Toolbox** page, enter the master code.

**5** Tap → to scroll to the **Toolbox (3 of 3)** page. Then tap **Go!Bridge Status**.

A summary page displays the following information:

- **Network Configuration**. The DHCP configuration source.
- **IP Address**. The IP Address for the Go!Bridge. This is a 32-bit numeric address that identifies the device on the network.
- **Subnet Mask**. The subnet mask for the network. All devices that are joined to a network belong to a subnetwork.
- **Gateway**. The IP Address for the access point to the external network. Typically, this is the IP Address of the local network router or node that control traffic for your ISP.
- **MAC Address**. This is the Media Access Control (MAC) Address. It is a physical address that is encoded to the Go!Bridge during the manufacturing process.

## Testing

The Go!Bridge tests the network connection to the third-party monitoring service. A report shows if Go!Bridge has successfully connected (or failed to connect) to the external server.

## Registration

To register the Go!Bridge with the monitoring service, refer to your specific provider's registration instructions.

## SPECIFICATIONS

| | |
|---|---|
| Housing Material | ABS plastic and poly-carbonate |
| Color | White |
| LEDs | Internet and 900 MHz<br>Dual color (RED and GREEN) |
| Dimensions (L x W x D) | 6.25 x 4.5 x 1 in |
| Power | 5-V DC USB Mini-B Power Supply |
| Radio | 25 channel frequency-hopping spread spectrum, 403kHz channel spacing (910.2-920.275 MHz), GFSK modulation, 128 kbps, +19 dBm maximum RF power out |
| Ethernet | 100BASE-T |
| Serial to Ethernet Processor | Texas Instruments Stellaris Cortex MS |

## IMPORTANT NOTE

Should the local network lose Internet access due to a power outage or interruption, the Go!Bridge is not equipped with a battery backup system. To best prepare for power failures and to ensure the security system maintains Internet access with the monitoring service for life-safety communications during power failures, the local network must have a dedicated Uninterrupted Power Supply (UPS) or battery backup solution from a third-party manufacturer in place. Linear LLC does not supply, provide, recommend, or test the Go!Bridge with any UPS or battery backup solution. It is also assumed that owner's Internet Service Provider (ISP) maintains a backup battery (or power generator) for their remote network equipment.

# REGULATORY INFORMATION

## Wireless Product Notice

Radio controls provide a reliable communications link and fill an important need in portable wireless signaling; however, there are some limitations which must be observed.

• For United States Installations Only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range (approximately 400 ft.).

• A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.

• Changes or modifications to the device may void FCC compliance.

• Infrequently used radio links should be tested regularly to protect against undetected interference or fault.

• A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the end users.

## FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

**1** This device may not cause harmful interference, and

**2** This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful

interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

• Reorient or relocate the receiving antenna

• Increase the separation between the equipment and receiver

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

• Consult the dealer or an experienced radio/TV technician for help

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Les changements ou modifications non approuvés expressément par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à faire fonctionner l'équipement.

## Industry Canada Notices

*This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.*

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment

malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**WARNING:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

## Limited Warranty

This Linear product is warranted against defects in material and workmanship for two (2) years. This warranty extends only to wholesale customers who buy direct from Linear LLC or through Linear LLC's normal distribution channels. Linear LLC does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any.

There are no obligations or liabilities on the part of Linear LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties for functionality, are valid only until the warranty expires. This Linear LLC Warranty is in lieu of all other warranties expressed or implied.