

Wireless Gateway, infiNET EX® Wireless and ER Wireless

The Crestron® [CEN-GWEXER](#) and [CEN-GWEXER-PWE](#) are 2-way RF wireless gateways designed to facilitate communication between Crestron wireless devices and a Crestron control system. The CEN-GWEXER and CEN-GWEXER-PWE create a wireless network that allows both infiNET EX® wireless devices and Crestron Extended Range (ER) devices to communicate with the control system through one wireless gateway.

The CEN-GWEXER and CEN-GWEXER-PWE are powered via PoE (Power over Ethernet) or with an optional power pack. The CEN-GWEXER-PWE model includes a Crestron PoE injector.

The CEN-GWEXER and CEN-GWEXER-PWE are functionally similar. For simplicity within this guide, the term "CEN-GWEXER" is used except where noted.



In the Box

- 1 CEN-GWEXER or CEN-GWEXER-PWE, Wireless Gateway, infiNET EX® Wireless and ER Wireless

Additional Items

- 1 Bracket, Mounting, Integrated DIN Rail Clip (4519035)
- 1 Antenna, 2.4 GHz, 1/4 Wave, Reverse Polarity, Female (2001016)
- 1 Cable, Ethernet, CAT5e, 5 ft (1.52 m) (2022311)
- 2 Screw, 6-32 x 3/8 in., Pan Head, Phillips (2007225)

CEN-GWEXER-PWE Only

- 1 PoE Injector, PWE-4803RU (2001163)
- 1 Power Cord, 6 ft 7 in. (2 m) (2001134)



Determine the Installation Location

Install the CEN-GWEXER in a location that will provide optimum performance. Consider the following when determining the installation location:

NOTE: For additional information, refer to the Best Practices for Installation and Setup of Crestron RF Products Reference Guide (Doc. 6689) at www.crestron.com/manuals.

- Place the gateway at least 15 ft (4.6 m) from other infiNET EX gateways, Crestron ER gateways, or Wi-Fi® access points.
- Place multiple gateways on different RF channels.
- Place the gateway at least 6 ft (1.8 m) from the nearest Bluetooth® device.

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Installation

Mount the CEN-GWEXER to a DIN rail or a wall. The CEN-GWEXER can also be rack mounted. Refer to the RMK-IFE-1U Installation Guide (Doc. 7627) at www.crestron.com/manuals for details. It can also be placed on any flat, level surface.

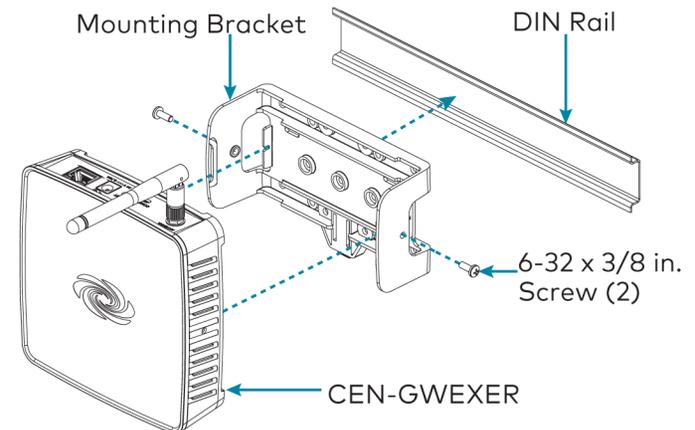
NOTES:

- This product must be installed and used in accordance with appropriate electrical codes and regulations.
- This product must be installed by a qualified electrician.

DIN Rail Mount

1. Hang the mounting bracket on the top of the DIN rail and press the bottom toward the DIN rail until it snaps into place.
2. Insert the CEN-GWEXER into the mounting bracket until it snaps into place.
3. Secure the CEN-GWEXER to the mounting bracket. Insert a 6-32 x 3/8 in. screw into each side of the mounting bracket and tighten using a Phillips screwdriver.

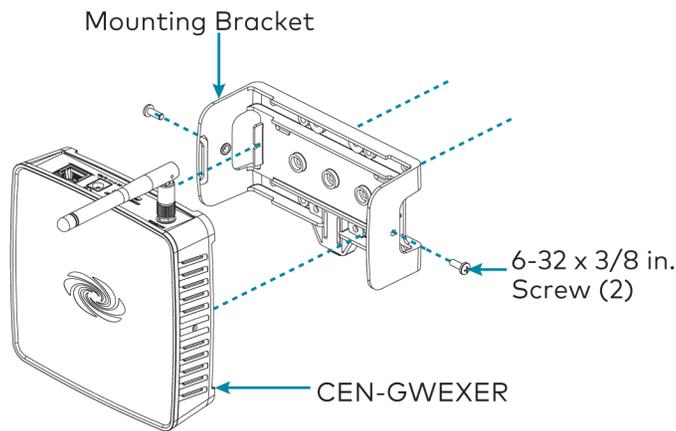
NOTE: Do not use the included screws to mount the bracket to the bottom of the CEN-GWEXER, as it will then not be possible to remove the device from the DIN rail.



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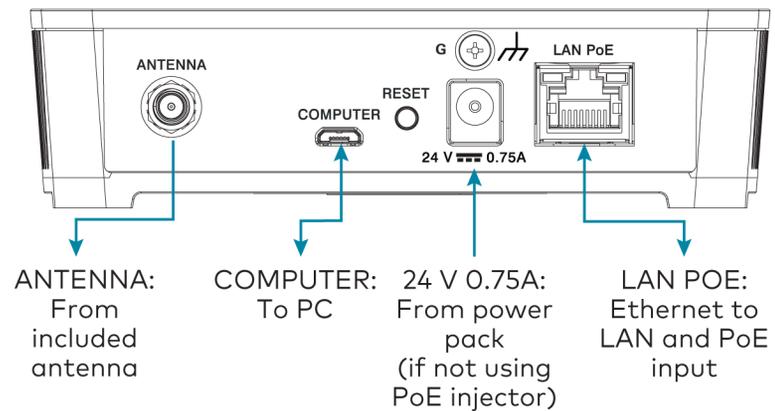
Wall Mount

1. Secure the mounting bracket to a vertical, flat surface using screws that are appropriate for the mounting surface (not included).
2. Insert the CEN-GWEXER into the mounting bracket until it snaps into place.
3. Secure the CEN-GWEXER to the mounting bracket. Insert a 6-32 x 3/8 in. screw into each side of the mounting bracket and tighten using a Phillips screwdriver.



Make Connections

Make the necessary connections for your application. Turn on power to the CEN-GWEXER after all connections have been made. Use Crestron power supplies for Crestron equipment.



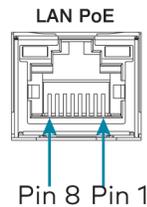
- When PoE is not available, supply power using a Crestron power supply such as a PW-2407WU (not included).
- When a Crestron PoE switch is available, connect the Ethernet cable directly to the PoE switch.
- When using a Crestron PoE injector:
 - Connect the CEN-GWEXER to the PoE injector:
 - Connect the CAT5e cable (supplied) to the LAN PoE port on the CEN-GWEXER.
 - Connect the other end of the CAT5e cable to the LAN PoE port on the PoE injector.

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- Connect the PoE injector to the LAN.
 - Connect a CAT5e cable (not included) to the LAN port on the PoE injector.
 - Connect the other end of the CAT5e cable to the LAN.
- Attach the AC power cord to the IEC 320 connector on the PoE injector and the other end into an active AC outlet.

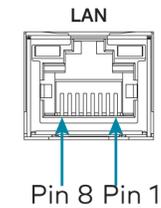
NOTE: Arrows denote internal pin assignments of the LAN PoE and LAN ports.

LAN PoE Pin Assignment



Pin	Signal
1	Data Pair 1
2	Data Pair 1
3	Data Pair 2
4	+ VDC
5	+ VDC
6	Data Pair 2
7	- VDC
8	- VDC

LAN Pin Assignment



Pin	Signal
1	Data Pair 1
2	Data Pair 1
3	Data Pair 2
4	No Connection
5	No Connection
6	Data Pair 2
7	No Connection
8	No Connection

Connect the Antenna

Attach the antenna to the ANTENNA connector.

If necessary, extend the antenna using an ANT-EXT-10 Antenna Extender (sold separately).

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Assign the RF Channel

Functions and then **infiNET EX Gateway**. Refer to the Crestron Toolbox software Help file for details.

NOTE: Arrows denote internal pin assignments of the LAN PoE and LAN ports.

Before use, assign an RF channel to the CEN-GWEXER. The CEN-GWEXER uses RF channels 11 through 26. Crestron recommends using RF channel 15 (default) or 20.

For optimum performance in a Wi-Fi environment, do not set the RF channel within a Wi-Fi channel band. Refer to the information below when choosing the RF channel in a Wi-Fi environment.

RF Channel(s)	Within Wi-Fi Channel	Adjacent to Wi-Fi Channel
11 - 14	1	-
15 (Default)	-	1, 6
16 - 19	6	-
20	-	6, 11
21 - 24	11	-
25	-	11
26	-	-

NOTE: Remember the following when pairing infiNET EX and ER devices:

- infiNET EX devices automatically set their RF channel assignment to match the channel of the gateway.
- ER devices must have their RF channel manually assigned to match the channel of the gateway.

Use the EasyConfig tool in Crestron Toolbox™ software to assign the RF channel. In the "EasyConfig" window for the wireless gateway, select

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Acquire Devices to the Gateway

The CEN-GWEXER allows Crestron infiNET EX and ER wireless devices to communicate with a wired control system. To facilitate the communication, the infiNET EX or ER wireless devices must be acquired to a gateway that is in the system.

Crestron infiNET EX and ER devices can communicate with a CEN-GWEXER after they have been acquired. A device can be acquired to only one gateway. Acquire mode can be activated using Crestron Toolbox software or the **ACQUIRE** button on the front panel.

NOTE:

- Use Crestron Toolbox software to set the RF channel before starting the acquire process. The default RF channel is 15.
- ER devices must be configured to match the channel setting on the gateway.
- Wait 15 seconds after powering up the CEN-GWEXER before entering Acquire mode.
- In an environment with multiple gateways, only one gateway should be in Acquire mode at a time.
- The CEN-GWEXER must be placed in Acquire mode before the device is placed in Acquire mode.

To acquire an infiNET EX or ER device via the **ACQUIRE** button on the CEN-GWEXER, perform the following procedure:

1. Press **ACQUIRE** on the CEN-GWEXER to enter Acquire mode. The **ACQUIRE** LED lights to indicate that the unit is ready to acquire infiNET EX and ER devices.

NOTE: Acquire mode automatically deactivates after 1 hour. Use Crestron Toolbox software to change the timeout period.

2. Bring the infiNET EX or ER device within range of the gateway, and place it in Acquire mode as described in its manual. Once it enters Acquire mode, the device will be acquired within 2 minutes.
3. Repeat step 2 for each infiNET EX or ER device that needs to be acquired.
4. Press **ACQUIRE** on the CEN-GWEXER to exit Acquire mode. The **ACQUIRE** LED turns off.

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Visit the Product Page

Scan the QR code to visit the product page.

CEN-GWEXER



www.crestron.com/model/6507326

CEN-GWEXER-PWE



www.crestron.com/model/6507325

Additional Information

Original Instructions

The U.S. English version of this document is the original instructions. All other languages are a translation of the original instructions.

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The product warranty can be found at www.crestron.com/warranty.

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