CGW-Z-0010 User Guide

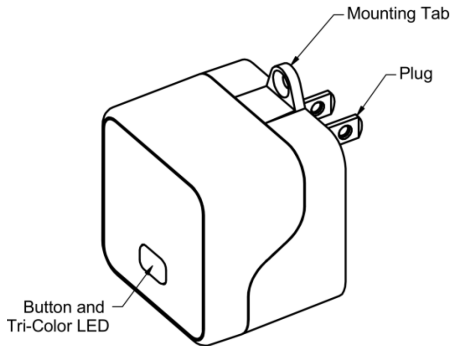
CPD004

The Cortet Z10 Range Extender (CGW-Z-010) is a device intended for use in various wireless sensor network (WSN), machine-to-machine (M2M), and Internet of Things (IOT) applications. The Cortet Z10 Range Extender is primarily intended to act as a **reliable**, **secure**, and **simple** way to extend the range and/or capacity of a ZigBee mesh network. The Z10 is especially useful in large facilities or facilities with a poor RF environment. The Z10 acts as a relay for ZigBee messages between ZigBee devices that are otherwise out of range – for example, a Cortet Z10 Range Extender can be used to relay messages between ZigBee end nodes and an otherwise out of range ZigBee Coordinator such as a Cortet E100 Gateway. The Cortet Z10 Range Extender can also be used to increase the total number of ZigBee devices that a ZigBee Coordinator can communicate with. This document provides information on the features of the Cortet Z10 Range Extender and how to use it.

IMPORTANT SAFETY INSTRUCTIONS

1. READ and KEEP these instructions
2. FOLLOW all instructions
3. DO NOT use this apparatus near water, Dry location use only
4. DO NOT attempt to modify this product. Doing so could result in personal injury

Z10 Features



Package Contents

One Z10 Range Extender
One Plate Screw (see Mounting Tab Use section)

System Requirements

The Z10 acts as an HA 1.2 compliant repeater and range extender for a ZigBee network. The Z10 requires a ZigBee Coordinator such as the Cortet E100 Gateway.

Software

The Z10 Area Controller comes with software pre-installed. For information on software updates please see the mobile app documentation.

Setting up the Z10

To setup the Z10 follow these steps:

1. Ensure a Cortet E100 Gateway (or equivalent ZigBee Coordinator) has been installed in the system and is functioning.
2. Use the Cortet mobile app to connect to the system and enable pairing on the E100.
3. Plug the Z10 into the wall socket.
4. The Z10 will try to pair automatically with the E100 for 5 minutes. If it fails, the button must be pressed to restart the pairing process.
5. Use the LED table below for current device status.
6. Follow on-screen instructions in the mobile app.

Factory Reset Process

To set the Z10 to factory fresh mode, follow the steps below. Note: **this cannot be undone.**

1. Unplug the Z10.
2. Hold the button while plugging the Z10 back in.
3. Continue to hold the button until the LED turns solid orange and then release the button.

EZ Mode Commissioning

Press and hold the button for 2 seconds. This will invoke EZ Mode – Network Steering. If not joined to a ZigBee network, the Z10 will look for a network to join. Once joined to a ZigBee network the Z10 will turn on permit joining for 180 seconds to allow any end device to join the network through it. If already joined to a ZigBee network, the Z10 will turn on permit joining for 180 seconds.

LED behavior

Color	Meaning
Solid Green	Joined to Zigbee network
Green flashing every 10 sec.	New Software downloading, **Do not unplug**
Solid Orange	Not Joined to Zigbee network / Device Reset
Blinking Orange	Attempting Network Join
Blinking Blue	Identify Mode
Solid Purple	Lost connection to gateway

Mounting Tab Use

CAUTION - The Z10 has an integral mounting tab for optional semi-permanent attachment to a grounded 15-ampere, 125-volt duplex receptacle. Use only with duplex receptacle having center screw.

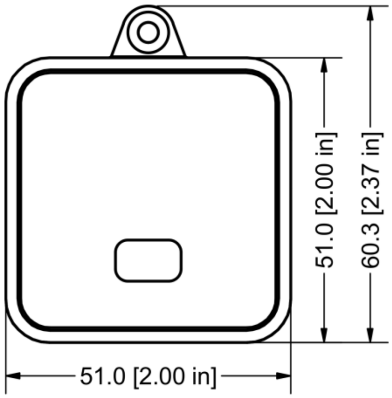
NOTICE - Local Regulations in Canada do not permit use of a mounting tab. In Canada, do not use the mounting tab to attach the unit to an outlet

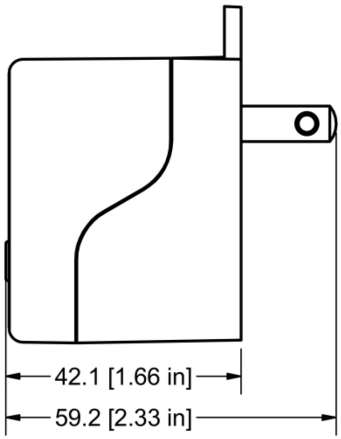
Risk of Electric Shock – Disconnect power to the receptacle before installing or removing the unit. When removing receptacle cover screw, cover may fall across plug pins or receptacle may become displaced

1. Using a standard slotted screwdriver, remove the center plate screw from the wallplate (do not remove the wallplate itself).
2. Plug the device into the receptacle, oriented such that the mounting tab hole lines up with the wall plate screw hole.
3. Secure unit in place by receptacle cover screw

Specifications

Input AC Voltage	100-240 VAC, 50/60 Hz
Maximum Current Drain	0.07A
Operating Temperature Range	-20 to 40C [-4 to 104F]
Product Dimensions (includes mounting tab and blades)	
60.3mm x 51.0mm x 59.2mm [2.37" x 2.00" x 2.33"]	
Product Dimensions when installed (excludes blades)	
60.3mm x 51.0mm x 42.1mm [2.37 in x 2.00 in x 1.66 in]	
AC input	IEC Type A, ungrounded, non-polarized





Agency Certifications

The CGW-Z-010 has been certified per FCC Part 15 rules and to Industry Canada license-exempt RSS Standards. To fulfill the FCC and IC certification requirements, the label is placed on the outside of the device and contains its own FCC ID and IC as shown below.

Conforms to FCC Part 15B
FCC ID: W7Z-WD6102
IC: 8254A-WD6102

This ZigBee® Certified product works with other ZigBee Home Automation™ version 1.2.1 (or prior versions) products. This device works with a ZigBee Gateway and HA 1.2.1 compliant devices.

Global 2.4 GHz wireless use

ZigBee® Certified is a registered trademark of the ZigBee Alliance.

ZigBee® Certified product

FCC & Canada Compliance Statement

This device complies with Part 15 of the FCC rules and with Industry Canada license-exempt RSS Standards. 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.

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.

Warning (Part 15.21)

Changes or modifications not expressly approved by CEL could void the user's authority to operate the equipment.