



# SIREN+CHIME (Z-WAVE PLUS™)

## PRODUCT OVERVIEW

The Ecolink Siren+Chime is a Z-Wave Plus™ enabled device intended to integrate into a Z-Wave Plus™ home automation network for the purpose of sounding a siren or chime when told to do so by a controlling device. It can be used to sound its siren when a house has been broken into; to chime when a monitored door or window is opened; and to give audible user feedback on the state of the security system with entry-delay and exit-delay tones.

- Plug and Play for Z-Wave Plus enabled Alarm Systems
- Chime (Programmable) to alert when zones are opened
- 120 dB Siren
- Can be plugged into any AC outlet and screwed into faceplate for solid installation

## PRODUCT SPECIFICATIONS

- For indoor use only
- Operating Frequency 908.42 MHz
- Operating range: Up to 100 feet (30.5 meters) line of sight
- Operating temperature: 0°C to 49°C, 32°F to 120°F (ambient temperature)

## HOW DO I USE THIS?

The Siren+Chime can be enabled through “scenes” to make noise under certain conditions defined in your scene. A scene on some gateways can be called an “automation,” or a “Smart App.”

However, not every Z-Wave Plus™ controller allows our devices to appear for the user to properly use and control via their user interface. You should check with the manufacturer of your particular Z-Wave Plus™ controller to see if they support our device explicitly. If they do not explicitly support our device, it may still work with limited functionality. In fully supported controllers, the Siren+Chime device would show up as such, and all or most functionality will be enabled within the user interface, otherwise this device may appear as a generic electric outlet and be controlled as if it were a lamp. An incomplete list of compatible Z-Wave Plus™ gateways may be found on our website at [www.discoverecolink.com](http://www.discoverecolink.com).

If your Z-Wave Plus™ controller only allows the Siren+Chime to be controlled as if it was single electric outlet, you can choose whether your Siren+Chime is just a siren or just a chime via the jumper labeled “J5” on the back of the device. With the jumper placed, the device will enable its chime functionality, and with the jumper removed (default) the siren functionality is enabled.



If the Siren+Chime is semi supported via its multiple endpoints, the Siren+Chime may appear on the user interface as a collection of switches or power outlets.

Endpoint	Sound	
1	Default	Siren
	J5 Jumper Placed	Chime
2	Default	Chime
	J5 Jumper Placed	Siren
3	Entry Delay	
4	Exit Delay	

### WHAT IS Z-WAVE PLUS™?

The Z-Wave Plus™ protocol is an interoperable, wireless, RF-based communications technology designed specifically for control, monitoring and status reading applications in residential and light commercial environments. It is a mesh network that can allow non-sleeping devices to extend the range of an existing network. The Z-Wave Plus protocol is a standard governed by the Z-Wave Plus™ alliance, and allows for most certified Z-Wave Plus™ devices to communicate and interoperate with each other.

For a more complete look at Z-Wave technology for non-technologists, and to learn more about Z-Wave's role as a key enabling technology for the Internet of Things and connected objects, please visit [www.z-wave.com](http://www.z-wave.com).

### HOW CAN I ADD IT TO MY EXISTING NETWORK?

1. As stated above, be sure that our device is enabled to work with your Z-Wave Plus™ controller (hub).
2. Plug the Siren+Chime into the wall and observe the LED's behavior. If after 10 seconds, the LED fades from on to off continuously, this means that the Siren+Chime is ready to be added to your Z-Wave Plus™ network. If LED turns off, that means that the Siren+Chime is already learned into an old Z-Wave Plus™ network and must be excluded first.

To do this, follow the directions below on removing a Z-Wave Plus™ device or factory defaulting the device.

1. Unplug the Siren.
2. Follow your Z-Wave Plus™ controller's instructions for activating its Add (Z-Wave Plus™ inclusion) mode.
3. Plug the siren in to power. On power-up, the Siren+Chime goes into learn mode. Wait 10 seconds for user feedback that your Z-Wave Plus™ controller's inclusion mode has completed.

### HOW CAN I REMOVE IT FROM MY NETWORK OR AN OLD NETWORK?



Any Z-Wave Plus™ controller can remove any Z-Wave Plus™ device from any network. The following steps remove the old Node ID that may be on your device preventing you from adding it.

1. *Unplug the Siren.*
2. *Follow your Z-Wave Plus™ controller's instructions for activating its remove (Z-Wave Plus™ exclusion) mode.*
3. *Plug the siren in to power. On power-up, the Siren+Chime goes into learn mode. Wait 10 seconds and for user feedback that your Z-Wave Plus™ controller's inclusion mode has completed. If successful, the Siren+Chime will beep and the LED will fade on and off continuously.*

If this does not seem to be working, then either repeat from step 1 or factory reset the device.

### HOW CAN I FACTORY RESET THE SIREN+CHIME?

To restore the Siren+Chime back to factory default settings and also remove any Z-Wave Plus™ node ID from the device follow these steps:

1. *Unplug the Siren+Chime.*
2. *Hold the button down on the left side of the device.*
3. *While continuing to hold the button down, plug the Siren+Chime into power, and continue holding the button down for 10 seconds until the Siren+Chime starts to beep.*
4. *Release the button and observe if the LED starts to fade on and off continuously.*
5. *Your Siren+Chime is factory reset and ready to be added to your Z-Wave Plus™ network.*

### IT'S ADDED. HOW DO I USE IT?

The Siren+Chime has what are called "endpoints". These make the single device appear on supported Z-Wave Plus™ controllers as multiple devices or rather explicitly breakout the various functionality of the Siren+Chime, i.e. the Siren and the Chime as separate devices that can be used in a home automation "scene." Your controller's manufacturer may have another word for a scene. If you see only one device, and that one device has only an ON or OFF button, then the Siren+Chime is not fully supported, but it may still be possible to use the device the way you intend to by controlling the main endpoint. The main endpoint, by default, is the Siren, but this can be swapped with the Chime functionality and is selected via a jumper on the back. When this jumper is shorted, the main endpoint will chime, so a user could set a scene for doors and windows to activate the Chime when they are opened or closed.

### Z-WAVE PLUS™ SPECIFIC INFORMATION

The following is information that can be used by Z-Wave Plus™ controller manufacturers and home automation enthusiasts to integrate the Ecolink Siren+Chime into their ecosystem and fully support all functionality.

### ACTIVATING SOUNDS

We make use of the multichannel command class by having four endpoints each represents a different sound and can be activated by sending either a Basic Set or Binary Switch Set.



The device supports the Basic Command Class by mapping it to a Binary Switch Command Class. A 0xFF hex is ON while a 0x00 is an OFF. The chime sound is very short and turns off by itself which might be a bit of an issue for gateways that poll for the latest state with a get after a set.

## ASSOCIATION

This device has a single association group which is group #1, and it can have 1 node in the group. It is intended for receiving unsolicited reports as a part of the test button on the Siren+Chime.

## TESTING THE Z-WAVE PLUS™ NETWORK

The Siren+Chime has a test button on the side of the device which will send a frame to the node as association group 1. If the frame is successful in reaching node 1, the Siren+Chime will make a chime sound. If the reception is poor the led will stay on while it retries and will make a low pitched single beep on failing to reach the destination node.

### Device Information

Device Classes	Generic Device Class	GENERIC_TYPE_SWITCH_BINARY
	Specific Device Class	SPECIFIC_TYPE_SIREN
Command Classes	COMMAND_CLASS_ZWAVEPLUS_INFO	v2
	COMMAND_CLASS_VERSION	v2
	COMMAND_CLASS_MANUFACTURER_SPECIFIC	v2
	COMMAND_CLASS_DEVICE_RESET_LOCALLY	v1
	COMMAND_CLASS_POWERLEVEL	v1
	COMMAND_CLASS_ASSOCIATION	v2
	COMMAND_CLASS_ASSOCIATION_GRP_INFO	v1
	COMMAND_CLASS_FIRMWARE_UPDATE_MD	v2
	COMMAND_CLASS_SWITCH_BINARY	v2
	COMMAND_CLASS_MULTI_CHANNEL	V4
Manufacturer ID	MFG_ID_ECOLINK ( 0x014A )	
Product Type	0x0A	
Product ID	0x05	



## FCC Compliance Statement

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 devices, 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 uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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:

- Re-orient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on a different circuit from the receiver
- Consult the dealer or an experienced radio/TV contractor for help.

Warning: Changes or modifications not expressly approved by Ecolink Intelligent Technology Inc. could void the user's authority to operate the equipment.

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.

C'et appareil est conforme la norme d'Industrie Canada exempts de licence RSS. Son fonctionnement est soumis aux deux conditions suivantes: (1) c'et appareil ne peut pas provoquer d'interférences, et (2) c'et appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de la dispositif.

**MODEL: SC-ZWAVE5-ECO**

**FCC ID: XQC-SCZ5**

**IC ID: 9863B-SCZ5**

## Warranty

Ecolink Intelligent Technology Inc. warrants that for a period of 3 years from the date of purchase that this product is free from defects in material and workmanship. This warranty does not apply to damage caused by shipping or handling, or damage caused by accident, abuse, misuse, misapplication, ordinary wear, improper maintenance, failure to follow instructions or as a result of any unauthorized modifications.

If there is a defect in materials and workmanship under normal use within the warranty period Ecolink Intelligent Technology Inc. shall, at its option, repair or replace the defective equipment upon return of the equipment to the original point of purchase.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Ecolink Intelligent Technology Inc. neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. The maximum liability for Ecolink Intelligent Technology Inc. under all circumstances for any warranty issue shall be limited to a replacement of the defective product. It is recommended that the customer check their equipment on a regular basis for proper operation.



Designed in Carlsbad, CA [www.discoverecolink.com](http://www.discoverecolink.com)