

IQ Siren8



REVISION RECORD

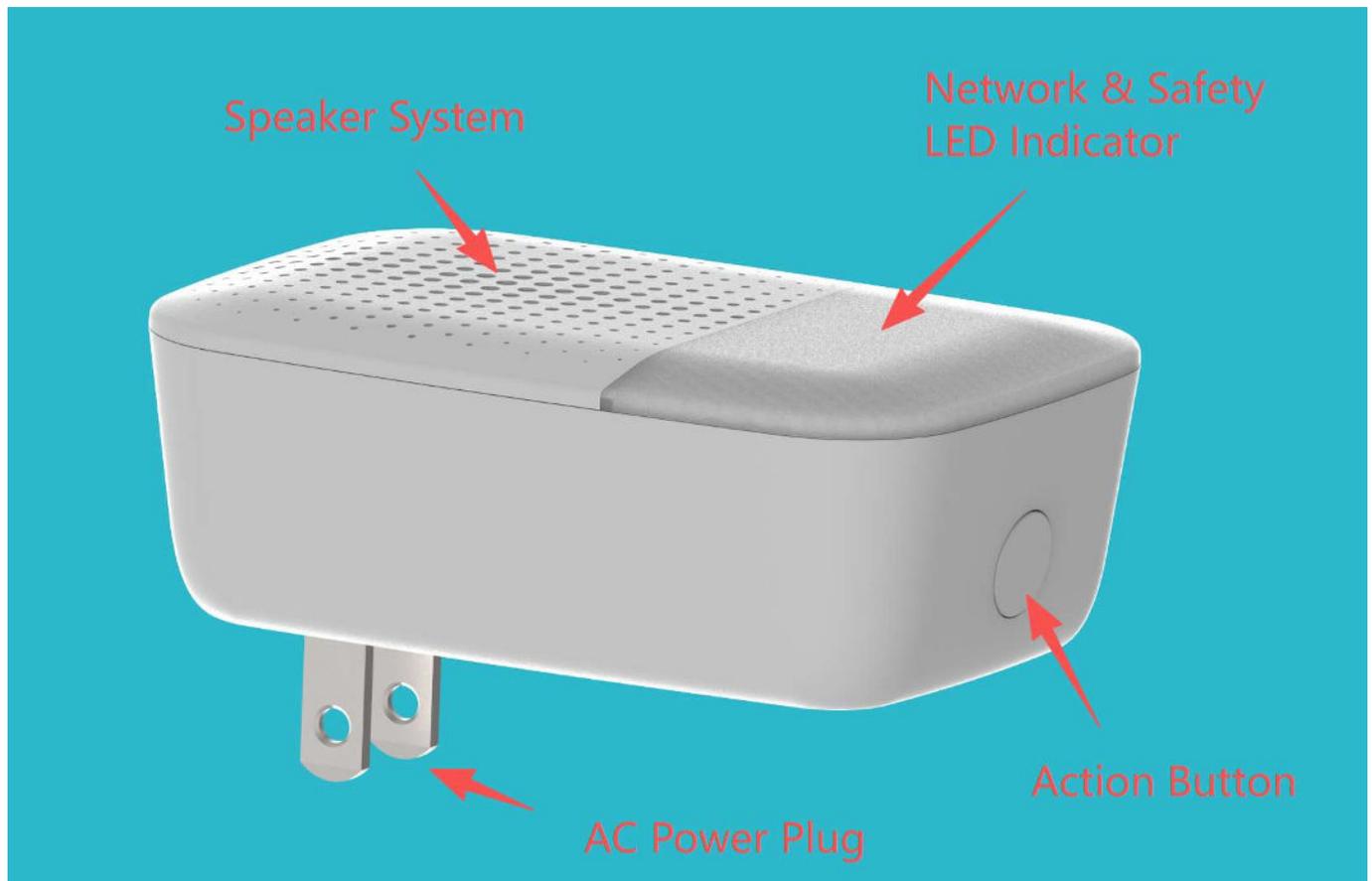
Version	Date	Brief description of changes
0.1	2025.08.26	First revision.
0.2	2025.10.09	Change Hardware Version
0.3	2025.11.04	Change the device type to Binary Switch
0.4	2026.2.4	Change Product Type ID
0.5	2026.3.11	Update Z-Wave and Z-Wave Plus trademark

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1 OVERVIEW

The IQ Siren8 is a wireless Z-Wave® device that allows you to have additional sirens placed throughout the home. It plugs into any standard outlet, acts as a repeater in the Z-Wave network, has a rechargeable back up battery and three LED lights that strobe when the siren is triggered.



Terminology	Description
AC Power Plug	Used to power on from the AC system
Action Button	Used for networking ,resetting and protect the device.
Network Led	Used for indicating the current state of the product.
Safety Led	Send out alarm lights
Speaker System	Make an alarm sound

2 SPECIFICATIONS

2.1 Structural

Parameter	Value
Product Identifier	002
Dimensions	85x57x28mm
Color	White
Usage	For indoor use.
Operating Temperature	0~45°C
Relative Humidity	20%~80%

2.2 Hardware

Parameter	Value
Z-Wave Module	EFR32ZG23
Z-Wave TX Power	Max: 14dBm
Z-Wave Classic Antenna Distance	30m (Indoor) /150m (Outdoor)
Z-Wave Long Range Antenna Distance	40m (Indoor) / 400m (Outdoor)
Indicator Light Color	white
Buttons	Action Button x 1
Battery	Built-in Lithium Battery 450mAh, Powered by battery, capable of continuous alarm for 2 hours.
Input Voltage	US: 120V~60Hz, EU/ANZ: 230V~50Hz
Working Power	2.55W (Peak)
Standby Power	0.2W (No Charge)
Maximum alarm volume	105dB

2.3 Software

Parameter	Value
Wireless Technology	Z-Wave
Certification Type	Z-Wave Plus® v2 Certification
Z-Wave SDK Version	7.23.2
Z-Wave Library Type	Enhanced 232 Slave
Z-Wave Role Type	Always On Slave [0x05]
Generic Product Type	GENERIC_TYPE_SWITCH_BINARY[0x10]
Specific Product Type	SPECIFIC_TYPE_NOT_USED[0x00]
Security Class	Non-Security, S0, S2 Unauthenticated, and S2 Authenticated
SmartStart Compatible	Support. After powering on, SmartStart is auto activated.
Over The Air (OTA)	Support. Firmware can be updated via RF. IMPORTANT: This is a device for security situation, the OTA process MUST be carried out in the Ac power supply mode.
Multi Channel Product	No
Association	Support. Refer to Section 4.7 Association Group Info.
Factory Reset	Support. Refer to Section 3.6 How to factory reset.
Power-down Memory	Support. All command settings will stay unchanged even power down.
Sound State Report	Support. Send out binary switch report / basic report via Group 1.
Control other product	Yes

3 QUICK START

3.1 Important safety information

Please read this manual carefully. Failure to follow the recommendations in this manual may be dangerous or may violate the law. The manufacturer, importer, distributor and seller shall not be liable for any loss or damage resulting from failure to comply with the instructions in this manual or any other material. Use this equipment only for its intended purpose. Follow the disposal instructions. Do not dispose of electronic equipment in a fire or near open heat sources.

3.2 How to add the product

The following will step you through adding the product to your Z-Wave network.

1. Set your Z-Wave gateway into its 'add device' mode in order to connect the product to your Z-Wave system. Refer to the gateway's manual if you are unsure of how to perform this step.
2. Click Action Button twice; its LED will flash fast to indicate it has entered pair mode.
3. When the product successfully joins your Z-Wave network its LED will turn on for 1 seconds and then turn off. Should the LED keep blinking, it has been unable to join your Z-Wave network; repeat the above steps and please contact us for further support if needed.

If your Z-Wave gateway supports SmartStart: scan the QR code on the back of the product using the gateway's app. Your sensor will join your Z-Wave network automatically.

3.3 How to remove the product

1. Set your Z-Wave gateway into its 'remove device' mode.
2. Click Action Button twice on the product; its LED will flash fast to indicate it has entered remove mode.
3. When the product successfully remove, its LED will breathing light.

3.4 About SmartStart

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

3.5 About Product

This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

3.6 How to factory reset

This device also allows to be reset without any involvement of a Z-Wave controller. This procedure should only be used when the primary controller is inoperable.

Make sure the product is powered. To complete the reset process manually, press and hold the Action Button for at least 12s. The Indicator Light will become flash, which indicates the reset operation is successful. Otherwise, please try again. Contact us for further support if needed.

3.7 Long Range

The product can be included using Z-Wave Long Range.

3.8 Power outage safety reminder

When the product is unplugged from the socket, the safety Led will light up and an alarm sound will sound (if configured parameter 1 set enabled) , with the following duration:

Level of Back-up Battery	Durations (Second)
80—100%	30
40—80%	20
20—40%	10
0—20%	5

4 SOFTWARE FUNCTION DEFINITION

4.1 User Behavior Interaction

User behavior	Out of the Z-Wave network	In the Z-Wave network
Power OFF	Cut the power.	Cut the power.
Power ON	Send Inclusion Requests for SmartStart Learn Mode. LED will breathing light	LED will become on one second, and turn off.
Click Action Button once	1. Exit Classic Inclusion Learn Mode. If Action Button is clicked again during the Classic Inclusion Learn Mode, the Learn Mode will exit. At the same time, Indicator Light will extinguish immediately, and then become breathing white light. Product will start SmartStart Mode again. 2. stop play tone and safety led when in alarm (Refer to configuration configured parameter 2)	1. Exit Classic Inclusion Learn Mode. If Action Button is clicked again during the Classic Inclusion Learn Mode, the Learn Mode will exit. 2. stop play tone and safety led when in alarm (Refer to configuration configured parameter 2)
Click Action Button twice	1. Send Node Info for Adding. Indicator Light will flash for up to 30s. If Adding succeeds, it will turn on for 1 seconds and then turn off. If Adding fails, it will return breathing white light. 2. Exit Classic Inclusion Learn Mode. If Action Button is clicked twice again during the Classic Inclusion Learn Mode, the Learn Mode will exit. At the same time, Indicator Light will extinguish immediately, and then become breathing white light. Product will start SmartStart Mode again.	1. Send Node Info for Removing. Indicator Light will flash for up to 30s. If Removing succeeds, it will turn on for 1 seconds and then turn off. If Removing fails, it will it will turn off the led. 2. Exit Classic Inclusion Learn Mode. If Action Button is clicked twice again during the Classic Inclusion Learn Mode, the Learn Mode will exit.
Press and hold Action Button for [1, 5s)	Reserved. Indicator Light flow display when press, and become off when release.	Reserved. Indicator Light flow display when press, and become off when release.
Press and hold Action Button for [5, 8s)	Test Mode: Indicator Light flash fast when press, and into test mode when release. In the test mode, the sound rings for 5 seconds, LEDs are blink fast.	Test Mode: Indicator Light flash fast when press, and into test mode when release. In the test mode, the sound rings for 5 seconds, LEDs are blink fast.
Press and hold Action Button for [8, 12s)	Reserved. Indicator Light will speed up flashing when press, and turn off when release.	Reserved. Indicator Light will speed up flashing when press, and turn off when release.
Press and hold Action Button for 12 seconds	Factory Reset. If the LED starts breathing light, which indicates the reset is success	Factory Reset. If the LED starts breathing light, which indicates the reset is success

4.2 Supported Command Classes

Command Class	Version	Securely added	
		Non-secure	Secure
ZWAVEPLUS_INFO	2	Support	Support
ASSOCIATION	2		Support
MULTI_CHANNEL_ASSOCIATION	3		Support
ASSOCIATION_GRP_INFO	3		Support
TRANSPORT_SERVICE	2	Support	Support
VERSION	3		Support
MANUFACTURER_SPECIFIC	2		Support

DEVICE_RESET_LOCALLY	1		Support
INDICATOR	3		Support
POWERLEVEL	1		Support
CONFIGURATION	4		Support
Binary Switch	2		Support
NOTIFICATION	8		Support
APPLICATION_STATUS	1	Support	Support
SECURITY	1	Support	Support
SECURITY_2	1	Support	Support
SUPERVISION	1	Support	Support
FIRMWARE_UPDATE_MD	5		Support

4.3 Basic Command Class mapping

Basic Command	Mapped Command
Basic Set	Map to Binary Switch Set
Basic Get	Map to Binary Switch Get
Basic Report	Map to Binary Switch Report

4.4 Binary Switch

Command	Description
Binary Switch Set	Target Value = 0x00, stop playing any tone When 1 <= value <= 5, play the specified tone id. When 5 < value < 99, play the default tone When value = 0xFF, play the default tone Duration = instantly
Binary Switch Get	Request the current On/Off state from the node
Binary Switch Report	Current value = 0x00, has stopped playing Current value = 0xFF, playing tone. Target value = current value Duration = instantly

4.5 Z-Wave Plus Info

Parameter	Value
Z-Wave Plus Version	0x02
Role Type	0x05 [ROLE_TYPE_SLAVE_ALWAYS_ON]
Node Type	0x00 [ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE]
Installer Icon Type	0x0F00 [ICON_TYPE_GENERIC_SIREN]
User Icon Type	0x0F00 [ICON_TYPE_GENERIC_SIREN]

4.6 Manufacturer Specific

Parameter	Value
Manufacturer ID	0x012A
Product Type ID 1	0x00 [US], 0x01 [EU], 0x02 [AU]
Product Type ID 2	0x03
Product ID	0x0002

4.7 Version

Parameter	Value
Z-Wave Protocol Library Type	0x03
Z-Wave Protocol Version	0x07
Z-Wave Protocol Sub Version	0x17
Firmware 0 Version	0x01 [Z-Wave Chip Firmware Version]
Firmware 0 Sub Version	0x00 [Z-Wave Chip Firmware Sub Version]
Hardware Version	0xAC
Number of firmware targets	0x00

4.8 Association Group Info

ID	Name	Node count	Profile	Function
1	Lifeline	5	General: Lifeline (0x0001)	Device Reset Locally Notification: Issued when Factory Reset is performed. Switch Binary Report: Issued when Play Tone is changed(enable by configuration 80) Basic Report: Issued when Play Tone is changed(enable by configuration 80) Notification Report: Issued when power supply is changed.
2	Retransmit	5	Control: NA(0x2000)	Basic Set: Issued when received Basic Set command(enable by configuration 80) Switch Binary Set: Issued when received Binary Switch Set command(enable by configuration 80).

4.9 Notification

Notification Type		Notification Events		Description
Power Management	0x08	Power has been applied	0x01	Power has been applied
		AC mains disconnected	0x02	Supply by battery
		AC mains re-connected	0x03	Supply by AC

4.10 Indicator

Indicator ID		Property ID	
Node Identify (Led)	0x50	On Off Period	0x03
		On Off Cycles	0x04
		On time within an On/Off period	0x05

4.11 Application Status CC

When DUT is in an alarm state, the device will ignore Indicator Set Command and send an Application Busy Report Command to the initiator.

4.12 Configuration

Parameter	0x01 (1)			
Name	Set the alarm duration in seconds			
Info	Set the alarm duration in seconds			
Properties	Size	2	Min Value	10
	Format	Unsigned Integer	Max Value	65535
	Read-only	False	Default Value	300
	Altering capabilities	False	Advanced	False
Description	Set the alarm duration in seconds			

Parameter	0x02 (2)			
Name	Set default tone id			
Info	Set default tone id			
Properties	Size	1	Min Value	1
	Format	Unsigned Integer	Max Value	5
	Read-only	False	Default Value	1
	Altering capabilities	False	Advanced	False
Description	Set default tone id			

Parameter	0x03 (3)			
Name	Set default volume			
Info	Set default volume			
Properties	Size	1	Min Value	0
	Format	Unsigned Integer	Max Value	100
	Read-only	False	Default Value	100
	Altering capabilities	False	Advanced	False
Description	Set default volume			

Parameter	0x04 (4)			
Name	Enable action button to stop alarm			
Info	Enable action button to stop alarm			
Properties	Size	1	Min Value	0
	Format	Enumerated	Max Value	1
	Read-only	False	Default Value	1
	Altering capabilities	False	Advanced	False
Description	Enable z-wave button to stop alarm			
	Value	Function		
	0	disable		
	1	enable		

Parameter	0x05 (5)			
Name	Enable play sound when AC outage			
Info	Enable play sound when AC outage			
Properties	Size	1	Min Value	0
	Format	Enumerated	Max Value	1
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description	Enable play sound when power is lost. The alarm light will flash for 1 minute.			
	Value	Function		
	0	Disable		
	1	Enable.		

Parameter	0x50 (80)			
Name	Enable Association group report			

Info	Enable Association group report			
Properties	Size	1	Min Value	0
	Format	Enumerated	Max Value	1
	Read-only	False	Default Value	1
	Altering capabilities	False	Advanced	False
Description	Enable Association group report			
	Value	Function		
	0	enable basic report of group1, enable basic set of group2.		
	1	enable switch binary report of group1, enable switch binary set of group2.		

Parameter	0xFC (252)			
Name	lock configuration setting			
Info	lock configuration setting			
Properties	Size	1	Min Value	0
	Format	Enumerated	Max Value	1
	Read-only	False	Default Value	0
	Altering capabilities	False	Advanced	False
Description	Enable/disable to lock configuration parameters			
	Value	Function		
	0	Disable		
	1	Enable.		