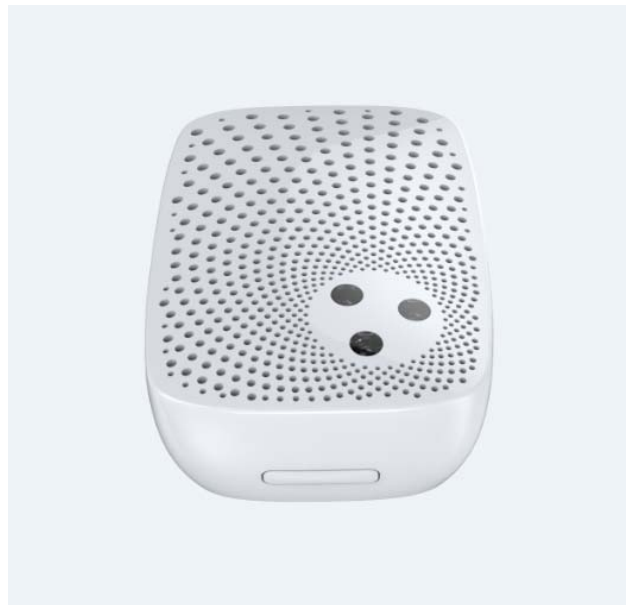




# Aeon Labs Siren Gen5

(Z-Wave Siren Gen5)



**Change history**

Revision	Date	Change Description
1	05/14/2014	Initial draft.
2	07/28/2014	Use Configuration CC to select the siren sound.

**Aeon Labs Siren Gen5**  
**Engineering Specifications and Advanced Functions for Developers**  
**(V1.23)**

Aeon Labs Siren is a switch multilevel device based on Z-wave enhanced 232 slave library of V6.51.01.

**1. Library and Command Classes**

**1.1 SDK:** 6.51.01

**1.2 Library**

- Basic Device Class: BASIC\_TYPE\_ROUTING\_SLAVE
- Generic Device class: GENERIC\_TYPE\_SWITCH\_BINARY
- Specific Device Class: SPECIFIC\_TYPE\_SIREN

**1.3 Commands Class**

	Included Non-Secure	Included Secure
<b>Node Info Frame</b>	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_SWITCH_BINARY V1 COMMAND_CLASS_SWITCH_MULTILEVEL V1 COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_SCENE_ACTIVATION V1 COMMAND_CLASS_SCENE_ACTUATOR_CONF V1 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1	COMMAND_CLASS_ZWAVEPLUS_INFO V2 COMMAND_CLASS_VERSION V2 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_SECURITY V1 COMMAND_CLASS_MARK V1 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1
<b>Security Command Supported Report Frame</b>	–	COMMAND_CLASS_SWITCH_BINARY V1 COMMAND_CLASS_SWITCH_MULTILEVEL V1 COMMAND_CLASS_CONFIGURATION V1 COMMAND_CLASS_ASSOCIATION V2 COMMAND_CLASS_ASSOCIATION_GRP_INFO V1 COMMAND_CLASS_MANUFACTURER_SPECIFIC V2 COMMAND_CLASS_SCENE_ACTIVATION V1 COMMAND_CLASS_SCENE_ACTUATOR_CONF V1 COMMAND_CLASS_VERSION V1 COMMAND_CLASS_POWERLEVEL V1 COMMAND_CLASS_FIRMWARE_UPDATE_MD V2 COMMAND_CLASS_DEVICE_RESET_LOCALLY V1 COMMAND_CLASS_HAIL V1

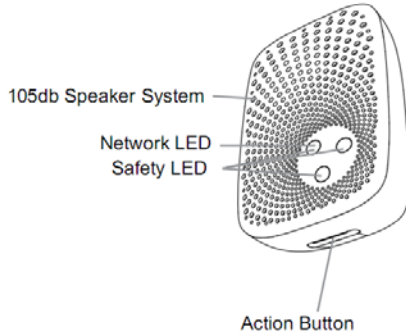
**2. Technical Specifications**

**Operating Distance:** Up to 550 feet (170 meters) outdoors.

**3. Familiarize Yourself with our Siren Gen5**

**3.1 Interface**

- Action Button
- 105db Speaker System
- Safety LED
- Network LED



#### 4. All functions of each trigger

##### 4.1 Functions of Action Button

Trigger	Description
Clicked	<p><b>Cancel Alarm Status, Let Siren into Learn Mode.</b></p> <p><b>Add Siren into Z-Wave Network:</b></p> <ol style="list-style-type: none"> <li>1. Install Siren, and plug it into the socket of AC Power.</li> <li>2. Let the primary controller into inclusion mode (If you don't know how to do this, please refer to its manual).</li> <li>3. Press the Action Button.</li> <li>4. If the Learning is failed, please repeat the process from step 2.</li> </ol> <p><b>Remove Siren from Z-Wave Network:</b></p> <ol style="list-style-type: none"> <li>1. Install Siren, and plug it into the socket of AC Power.</li> <li>2. Let the primary controller into exclusion mode (If you don't know how to do this, refer to its manual).</li> <li>3. Press the Action Button.</li> <li>4. If the remove is failed, please repeat the process from step 2.</li> </ol> <p><b>Note:</b> If Siren is removed from Z-wave network, it will be reset to factory default.</p>
Press and hold 5~8 seconds	<p><b>Cancel Alarm Status, Test the Sound:</b></p> <p>For 1 to 5 seconds: The Network LED will fast blink, after 5 seconds, the alarm sound will ring for 3 seconds and the same time all LEDs go into the state of fast blink.</p>
Press and hold 20 seconds and released	<p><b>Reset Siren to Factory Default:</b></p> <ol style="list-style-type: none"> <li>1. Make sure the Siren is connected to the power supply.</li> <li>2. If holding time more than one second, the Network LED will fast blink. If holding time more than 20seconds, Network LED will be on for 2 seconds, which indicates the reset operation is successful, otherwise please repeat from step1 to step2.</li> </ol> <p><b>Note:</b> Reset Siren to factory default settings will:</p> <ol style="list-style-type: none"> <li>a), remove Siren from Z-Wave network state;</li> <li>b), delete the Association setting;</li> <li>c), restore the configuration settings to the default.</li> </ol>

##### 4.2 Functions of wireless controller.

Trigger	Description
Command	<b>Trigger alarm, Sound is playing, and LEDs blink fast.</b>

## 5. Special rule of each command

### 5.1 Z-Wave Plus Info Report Command Class

Parameter	Value
Z-Wave Plus Version	1
Role Type	5 (ZWAVEPLUS_INFO_REPORT_ROLE_TYPE_SLAVE_ALWAYS_ON)
Node Type	0 (ZWAVEPLUS_INFO_REPORT_NODE_TYPE_ZWAVEPLUS_NODE)
Installer Icon Type	0x0F00 (ICON_TYPE_GENERIC_SIREN)
User Icon Type	0x0F00 (ICON_TYPE_GENERIC_SIREN)

#### 5.1 Association Command Class

The Siren supports 1 Association groups.

The Node IDs in Group 1 will receive Hail Command /Basic report (configurable) which is sent via single-cast (if there are more than 1 Node ID) when Siren's status changed.

#### 5.3 The rules of the level value (Basic CC, Binary Switch CC, Scene CC)

- (1) 0x00: Close the siren sound.
- (2) 0x01 ~ 0x63 and 0xff: Open the current siren sound.
- (3) Other values will be ignored.

#### 5.4 Scene Actuator Conf Command Class

The Siren supports max 255 Scene ID.

The Scene Actuator Conf Set command is effective, when only Level $\geq$ 0 and Level $<$ 0x64 or Level=0xff, otherwise, it will be ignored.

The Scene Actuator Configuration Get Command is used to request the settings for a given scene, if scene ID is not setting, it will be ignored. If Scene ID =0, then the Siren will report currently the activated scene settings. If the currently activated scene settings do not exist, the Siren will reports Level = currently load status and Dimming Duration=0

#### 5.5 Scene Activation Set Command Class

The Scene Activation Set Command is effective, when only Level $\geq$ 0 and Level $<$ 0x64 or Level=0xff, otherwise, it will be ignored. If the requested Scene ID is not configured, it will be ignored too.

#### 5.6 Configuration Set Command Class

7	6	5	4	3	2	1	0
Command Class = COMMAND_CLASS_CONFIGURATION							

Command = CONFIGURATION_SET		
Parameter Number		
Default	Reserved	Size
Configuration Value 1(MSB)		
Configuration Value 2		
.....		
Configuration Value n(LSB)		

Parameter Number Definitions (8 bit):

Parameter Number Hex / Decimal	Description	Default Value	Size
0x25 (37)	<p>1, The value1 (low byte) is used to select the Siren sound :</p> <p>Value1=0, do not change the current Siren sound.  Value1=1, Siren sound 1 is selected.  Value1=2, Siren sound 2 is selected.  Value1=3, Siren sound 3 is selected.  Value1=4, Siren sound 4 is selected.  Value1=5, Siren sound 5 is selected.  Other values will be ignored.</p> <p>2, The value2 (high byte) is used to adjust the volume:</p> <p>Value2=0, do not change the current volume.  Value2=1, set the volume to 88 dB.  Value2=2, set the volume to 100 dB.  Value2=3, set the volume to 105 dB.  Other values will be ignored.</p>	Value1 = 1. Value2 = 3.	2
0x50 (80)	Enable to send notifications to associated devices (Group 1) when the state of Siren changed (0=nothing, 1=hail CC, 2=basic CC report).	0	1
0xC8 (200)	Partner ID (0= Aeon Labs Standard Product).	0	1
0xFC (252)	Enable/disable Lock Configuration (0 =disable, 1 = enable).	0	1
0xFF (255)	1, Value=0x55555555、 Default=1、 Size=4  Reset to factory default setting and removed from the z-wave network	N/A	4
	2, Value=0、 Default=1、 Size=1  Reset to factory default setting	N/A	1