Black Cat Multi Message Centre Quick Start Guide

Product Code	Z Wave Frequency
ZWBCMC-AUS	921.4
ZWBCMC-EURO	868.4
ZWBCMC-USA/Canada	908.4
ZWBCMC-JP	922.5

Black Cat Multi-Message Centre

The Multi-Message Centre is an intelligent device that can be controlled remotely by a Z Wave network. The Multi-Message Centre can send messages via a Z-wave network to the Z-Wave main controller. In the Z-wave network communications, The Multi-Message Centre can be connected to any Z-wave main controller. Different countries or areas have different radio frequencies for the Z-wave network. In the communication between the Multi-Message Centre and Z-wave main controller, the Multi-Message Centre can send and receive messages. When the code button of The Multi-Message Centre is pressed, it will send a message to the Z-wave main controller. The Z-wave main controller can display the on/off status of the Multi-Message Centre when the siren alarm receives messages from the Z-wave main controller, the Multi-Message Centre will be triggered. The Multi-Message Centre is battery powered, small and easily install. When the Multi-Message Centre is working the LED light will flash, and there will be alarm sound at the same time.

- The Multi-Message Centre can be configured for either Alert or Alarm messages with 10 different sounds available.
- The sound level is not lower than 90 decibels.

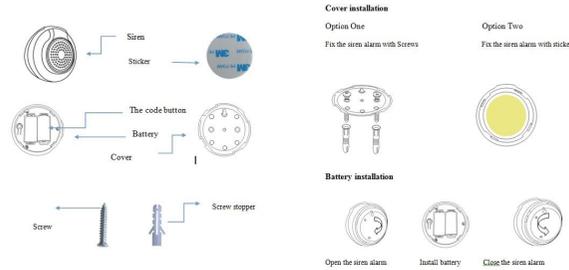### Add the Sensor to Z-Wave Network
1. Remove the sensor cover.
2. Make sure the sensor is powered.
3. Set Z-Wave controller or Z-Wave gateway into inclusion mode (Refer to the controller or gateway operating manual)
4. Press the button three times within 1.5 second, the device will enter inclusion mode. And the LED will flash on and off alternately five times.

Delete the Sensor from Z-Wave Network
1. Remove the device cover.
2. Make sure the sensor is powered.
3. Set Z-Wave controller or Z-Wave gateway into exclusion mode (Refer to the controller or gateway operating manual
4. Press the button three times within 1.5 second, the device will enter exclusion mode.
5. Wait for the main controller to delete the sensor.

Restore the Sensor to Factory Default Settings
1. Reset procedure will delete all information on the Z-Wave network and Z-Wave controller or Z-Wave Gateway, and restore the sensor to factory default settings.
2. Remove the device cover.
3. Make sure the sensor is powered.
4. Press and hold the button for 10 seconds, led will blink once.
5. Release the button.
6. Note: Use the reset procedure only when the primary controller is missing or inoperable

Cover installation
Option One — Fix the siren alarm with Screws
Option Two — Fix the siren alarm with sticker

Battery installation
Open the siren alarm — Install battery — Close the siren alarm

Associations:

This Message Centre supports three association groups, each group supports a maximum of 5 associated nodes. The Message Centre can identify some Z-wave sensors such as Motion, Door/window, Water and Smoke Sensors etc. If these sensors associate with this Message Centre to their lifeline group or other group that supports NOTIFICATION_REPORT, the Message Centre will play different music when the sensor is triggered. This has the effect that when the sensor is triggered, all devices associated with the sensor will receive the relevant reports. Through an association the sensor may control another Z-Wave network device, e.g. siren device, wall plug, lamp etc.

GROUP 1 is lifeline service that assigned to the Message Centre status. It enables the Message Sensor to send reports and readings to Z-Wave Controller or Z-Wave Gateway whenever the sensor is triggered. This Group Supports:

    NOTIFICATION_REPORT_V4,
    BATTERY_REPORT,
    SWITCH_BINARY_REPORT_V2,
    DEVICE_RESET_LOCALLY_NOTIFICATION

GROUP 2 allows for Send Binary Switch Report to associated devices in this group. This Group Supports:

    SWITCH_BINARY_REPORT

GROUP 3 allows for Send Notification to associated devices in this group. This Group Supports:

    NOTIFICATION_REPORT

NOTE:

Association allows for direct communication between Z-wave network devices. Main controller does not take part in such communication.

Parameter Number	Size	Available Settings	Default
1	1	1,2,3	2
2	1	0 ~3255	0
3	1	0~255	1
4	1	1,2,3	2
5	1	1~10	9
6	1	1~10	10
7	1	1,2	1

Configuration Parameters

1. Configure door Bell Music Volume.

This parameter defines the output volume when Message Centre plays door bell music. Door Bell music volume is divided into 3 stages, Low (Parameter is set to '1'), Middle (Parameter is set to '2'), High (Parameter is set to '3'). Default value is '2'.

2. Configure Alarm Music Duration Time

This Parameter defines the alarm music duration time when Message Centre receives an alarm sensor notification report or an alarm command from controller. The duration time is divided into 5 stages: Siren is not on (Parameter is set to '0'), 30 second (Parameter is set to '1'), 1 minute (Parameter is set to '2'), 5 minute (Parameter is set to '3') and Siren is always on until battery is dead (Parameter is set to '255'). Default value is '2'.

3. Configuring Door Bell Music Duration Time

This parameter defines the door bell music duration time when Message Centre receives a door/window sensor notification report. The door bell music will be played always if this parameter is set to '255'. The door bell music will not be played if this parameter is set to '0'. Other values are the door bell music playing duration time. Unit: Time.

4. Configure Alarm Volume

This parameter defines the output volume when Message Centre plays alarm music. Alarm volume is divided into 3 stages, Low (Parameter is set to '1'), Middle (Parameter is set to '2'), High (Parameter is set to '3'). Default value is '2'

5. Configure Alarm Music Index

This parameter defines the alarm music index for Message Centre play different music when alarm occurs. There are 10 different music for user selection.

6. Configure Door Bell Music Index

This parameter defines the door bell music index for Message Centre play different music when alarm occurs. There are 10 different music for user selection.

7. Configure Default Siren On Mode

This parameter defines the default music index, volume and the duration time for Message Centre on. This parameter can be selected between ALARM MUSIC and DOOR BELL MUSIC. The settings for ALARM MUSIC MODE defines by Param #1, #2 and #5. The settings for DOOR BELL MUSIC MODE defines by Param #3, #4 and #6.

If parameter set to '1', Message Centre will select ALARM MUSIC MODE to play music;

If parameter set to '2', Message Centre will select DOOR BELL MUSIC MODE to play music;

Notification Command Class

Binary Switch CC

The Message Centre can be turned on and off by CO-MAND_CLASS_SWITCH_BINARY. Which music will be play by siren is decided by the advance configuration parameter #5. When the Message Centre stops play alarm music, it will send a SWITCH_BINARY_REPORT = 0x00 to controller.

Siren Alarm On:

Command Class:	COMMAND_CLASS_SWITCH_BINARY
Command:	SWITCH_BINARY_SEND
Value:	0xFF

Siren Alarm Off:

Command Class:	COMMAND_CLASS_SWITCH_BINARY
Command:	SWITCH_BINARY_SEND
Value:	0x00

Basic CC

The Functions of BASIC_SET = 0x00 is same to SWITCH_BINARY_SET = 0x00; And BASIC_SET = 0x01 ~ 0x99, 0xFF are same to SWITCH_BINARY_SET = 0xFF.

Notification CC

If Message Centre receives a command from associated devices or controller to play any music, the Message Centre will send an active notification to controller. If the Message Centre stops play music, it will send a no active notification to controller.

Siren Active Notification Report:

Command Class :	COMMAND_CLASS_NOTIFICATION
Command:	NOTIFICATION_REPORT
Notification Type:	NOTIFICATION_TYPE_SIREN
Event:	NOTIFICATION_EVENT_SIREN_ACTIVE

Siren No Active Notification Report:

Command Class :	COMMAND_CLASS_NOTIFICATION
Command:	NOTIFICATION_REPORT
Notification Type:	NOTIFICATION_TYPE_SIREN
Event:	NOTIFICATION_EVENT_SIREN_NO_EVENT

Battery Check Command

The users can also enquire the battery status of the Message Centre by sending BATTERY_GET command. Once the Message Centre receivers the command, it will return BATTERY_REPORT command. The Message Centre will send BATTERY_LEVEL = 0xFF command to the Z-Wave Controller to inform that the Message Centre is in dead battery status, otherwise BATTERY_LEVEL value range is 0% to 100%.

Wakeup Command Class

The Message Centre stays in sleep status for the majority of time in order to conserve battery life. The minimum wakeup interval is 300s

The maximum wakeup interval is 16,777,200s (about 194 days)

Allowable interval among each wakeup interval is 60 second, such as 360,420 etc.

Note: The default value is 12 hours. The longer the value the greater battery life.

Command Classes

This Message Centre supports Command Classes as Below:

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_BATTERY (V1)

COMMAND_CLASS_ASSOCIATION (V2)

COMMAND_CLASS_ASSOCIATION_GRP_INFO (V1)

COMMAND_CLASS_WAKE_UP (V2)

COMMAND_CLASS_SWITCH_BINARY (V1)

COMMAND_CLASS_NOTIFICATION (V6)

COMMAND_CLASS_CONFIGURATION (V1)

SPECIFICATIONS

Battery type:	2×CR1123(3.0V)
Power Consumption:	2W
Max Current: Mode)	35mA (In Radio Transmitter
EU Standards Compliance:	
Radio Protocol:	Z-Wave
Valid Range:	Up to 80m outdoors

Up to 40m indoors (Depending on terrain and building structure)

FCC ID: Z52NAS-AB01Z

FCC Interference Statement.

This equipment has been tested and found to comply with the limits for a Class B digital module, 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 and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 of the following measures:

 • Re-orient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

This module complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This module may not cause harmful interference, and

(2) This module must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.