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Z-BOX HUB TECHNICAL MANUAL

Thank you for purchasing the Z-Box hub! We created this smart home solution in response to growing privacy concerns, frustration around cloud latency, and compatibility issues.

Our team joined forces with Fibaro to deliver a mature Z-Wave™ ecosystem equipped with the latest tech to enhance your automation experience. Support for this project is backed by Zooz so if you have any feedback, questions, or requests, let us know. We're at our best when catering directly to the needs of our community.

Your friends at Zooz

SAFETY WARNING

This product should be installed indoors only upon completion of any building renovations. Do NOT install outdoors.

Do NOT mount more than 6 feet from the ground.

Prior to installation, the device should be stored in a dry, dust-and-mold-proof place.

Do not install the device in a place with direct sun exposure, high temperature, or humidity.

Do NOT cover or place any objects on the device.

Do NOT mount the device on metal surfaces or inside of metal cabinets to ensure optimal radio performance.

Do NOT connect USB cables longer than 10 feet.

Keep away from chemicals, water, and dust.

Ensure the device is never close to any heat source or open flame to prevent fire.

No part of the device may be replaced or repaired by the user.

SPECIFICATIONS

MODEL NUMBER: ZZB97

Z-WAVE™ CHIP: 700 Series

Z-WAVE™ FREQUENCY: 908.42 MHZ

Wi-Fi: 802.11 b/g/n

POWER SUPPLY: 5 V DC, 1 A (included)

POWER CONNECTION: USB Micro B

OPERATING TEMPERATURE: 32° - 104° F

OPERATING HUMIDITY: up to 75%

DIMENSIONS: 7" x 4.3" x 1.2"

INSTALLATION AND USE: indoor only

HUB SET-UP

First power your Z-Box Hub:

Use the supplied USB cable and power adapter to connect your hub to a standard 120 V receptacle.

Wait for the hub to power up. The LED indicator will turn solid red.

NOTE: If you're using your own USB, please make sure it isn't longer than 10 feet for best results.

Here is how to set the Z-Box Hub for the first time:

1. Open your browser and type in 10.42.0.1 in the URL window.
2. Select your language.
3. Log in using these preset credentials:
Login: admin
Password: admin
4. Follow the prompts on the screen to configure your hub.

5. If you'd like to set up remote access (cloud) for your hub, please go to myhubid.com and create a free account.

ADD A Z-WAVE™ DEVICE

SmartStart Inclusion

SmartStart enabled devices can be added into a Z-Wave™ network by entering the Z-Wave™ DSK Code present on the product. The devices will be automatically added to the Z-Wave™ network using secure connection encrypted with Z-Wave™ S2 security framework. If your Z-Wave™ device supports SmartStart and is equipped with a unique QR code or PIN, please follow the steps below to add it to your Z-Box hub securely.

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave™ > SmartStart**.
2. Click **Add DSK**.
3. Enter the full DSK string code located on your device or in the packaging. If you can't find it, double check if your device supports SmartStart and refer to the manual to locate the full DSK code (not just the 5-digit PIN).
4. Under **Choose Security levels** select the level of security you'd like the device to be assigned by the hub (S2 Unauthenticated, S2 Authenticated, S2 Access Control, or S0). S2 Authenticated is recommended for any device that supports SmartStart.
5. Leave the **Only S2 classic inclusion** option unchecked.
6. Power your Z-Wave™ device and it will be added automatically within 10 minutes.

Manual Inclusion

If your Z-Wave™ device doesn't support SmartStart, if the SmartStart method failed, or you'd like to skip secure inclusion, simply follow the step below to add it to your Z-Box hub.

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. Click the **+ icon** and select **Z-Wave Device**.
3. Select the option that best fits your preference:
 - **NWI (Network Wide Inclusion)** to add a device using network repeaters if it's outside of the hub's direct range (recommended)
 - **S2 security** (select only if your device supports S2 unauthenticated or S2 authenticated SmartStart security)
 - **Near proximity inclusion** (select only if the device is located in the same room as the hub)
4. Click **Start adding**.
5. Follow the manufacturer's instructions to activate the device for inclusion. This information can be found in the product's user manual.
6. If you're adding a device that supports SmartStart, enter the 5-digit PIN code and click **Send**.
7. The device will enroll in the network and will appear on the device list shortly after.

REMOVE A Z-WAVE™ DEVICE

Exclusion Mode

Use this method to remove a device from your Z-Box hub if it's still connected and responsive in the network. Use these instructions to reset your Z-Wave™ device if you're having problems adding it to the hub. Follow these steps to remove the device:

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. Click the – **[minus] icon** and select **Z-Wave Device**.
3. Follow the manufacturer's instructions to activate the device for exclusion (removing the device from the network). This information can be found in the product's user manual.

Forced Removal

Use this method to remove a device from your Z-Box hub if it's not responsive (failed node) or if it's a phantom node. Note that you'll still have to factory reset the device or perform device exclusion if you'd like to add it back to your hub or another Z-Wave™ network.

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. Go to the **Z-Wave tab**.
3. Locate the device you'd like to delete and click the **trashcan icon** next to it.
4. Click **Force remove**.

PROVISIONING LIST

When adding devices with SmartStart or bootstrap classic S2 inclusion, you add them using the Provisioning List. This way, you can prepare multiple devices for inclusion offsite before powering them up and save time during the installation.

Add a device to the Provisioning List

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave > SmartStart**.
2. Click **Add DSK**.
3. Enter the full DSK string code located on your device or in the packaging. If you can't find it, double check if your device supports SmartStart and refer to the manual to locate the full DSK code (not just the 5-digit PIN).
4. Under **Choose Security levels** select the level of security you'd like the device to be assigned by the hub (S2 Unauthenticated, S2 Authenticated, S2 Access Control, or S0). S2 Authenticated is recommended for any device that supports SmartStart.
5. Leave the **Only S2 classic inclusion** option unchecked unless you don't want the device to join your network and complete SmartStart inclusion as soon as it's powered. If you check this option, you will need to go through the manual inclusion steps instead.
6. Click **Add**.

Edit a device in the Provisioning List

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave > SmartStart**.
2. Locate the device you'd like to edit and click the **pencil icon** next to it.
3. Change the **Security level** preferences as needed.
4. Click **Save**.

Delete a device from the Provisioning List

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave > SmartStart**.
2. Locate the device you'd like to edit and click the **trashcan icon** next to it.
3. Click **Delete**.
4. The device will be removed from the Provisioning List but if it had already been added to your Z-Box hub, you will need to follow the standard exclusion procedure to fully delete the device from the network.

MANAGE DEVICES

Control and monitor your Z-Wave™ devices

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device or see more details, simply hover over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.

Configure your Z-Wave™ devices

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display showing their ID, location (room), type, and battery level if applicable.
3. Click on any device to enter a detailed view with several options:
 - **General:** read the device ID, endpoint ID, firmware version, device type, and any nodes under this device.
 - **Advanced:** read the Z-Wave™ type or version, type and unit for metering devices.
 - **Device configuration:** rediscover device configuration.
 - **Associations:** set up direct association for your Z-Wave™ device.
 - **Notifications:** set up notifications for your Z-Wave™ device.
 - **Parameters:** read, edit, and save advanced configuration parameters for your Z-Wave™ device.

Identify your Z-Wave™ devices

You can identify selected devices using light or sounds signals. Double check the user manual to see if your Z-Wave™ device supports this feature. Here is how you can request the device to identify itself:

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display, **click** on the selected **device** to enter the **detailed view**.
3. Go to the **Advanced** tab and click **Identify**.

Track history of your Z-Wave™ devices

You can review the history of events for each device, including their change of status, scene activation, or notifications. Here is how to do that:

1. In your Z-Box online interface, click the **clock icon**.
2. You will access the full events history of your hub.

Activate your Z-Wave™ devices with specific command classes

BASIC

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
 - Click ON (set 0xFF)
 - Click OFF (set 0x00)

BINARY SWITCH

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
 - Click ON (set 0xFF)
 - Click OFF (set 0x00)

CENTRAL SCENE

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display showing their current state or reported value.
3. Click on the selected device to enter the detailed view and click on the **Advanced tab**.

4. A list of all possible scene ID's and key attributes will display (refer to the device's user manual for button mapping) – these are the triggers to program in your automation.
5. Click ADD ACTION next to the trigger of your choice to assign an action to it, like activating a scene or a device.

COLOR SWITCH

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
 - Click ON (turn the light on)
 - Click OFF (turn the light off)
 - Swipe the Brightness slider to set a different brightness level
 - Click the up arrow to increase brightness
 - Click the down arrow to dim the light
 - Click the pause icon to stop the current action

To control an individual color channel:

- Swipe the color slider to set a new brightness level for the selected color channel
- Click the up arrow to increase brightness
- Click the down arrow to dim the light
- Click the pause icon to stop the current action

DOOR LOCK

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply **hover** over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
 - Click Set Mode to select your lock's mode.
5. To **configure the door lock**, go back to the home page and click the **gear icon**, then go to **Devices**. Click on the door lock to enter the detailed view and click the **Advanced tab**. Make changes in the **Door Lock Configuration** section.

METER

1. In your Z-Box online interface, click the **gear icon**, then go to **Devices**.
2. Click on the device of your choice to enter the detailed view.
3. Go to the **Advanced tab** where you'll see the type, units, and the rate of your metering device.

4. If you'd like to reset the data accumulated by the device so far, go to the **Meter reset** section and click **RESET**.

MULTILEVEL SENSOR

1. In your Z-Box online interface, click the **gear icon**, then go to **Devices**.
2. Click on the device of your choice to enter the detailed view.
3. Go to the **Advanced tab** where you'll see the type of and unit used by the sensor.

MULTILEVEL SWITCH

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
 - Click **ON** (set 0xFF)
 - Click **OFF** (set 0x00)
 - Swipe the **Brightness slider** to set a different brightness level
 - Click the **up arrow** to increase brightness
 - Click the **pause icon** to stop the current action

NOTIFICATION

You can access all of the Notification Reports, including the type of notification and the event or state in the History panel. To enter the events history, simply click the **clock icon** in your Z-Box online interface.

SOUND SWITCH

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the expansion icon.
4. A sidebar on the right will appear showing the details (current sound, default sound, etc) and a control panel for the selected device.
 - Click **ON** to play the default sound
 - Click **OFF** to turn the sound off
 - Click **Play tone** and select the sound of your choice to play it
 - Click **MUTE** to mute the device
 - Click **UNMUTE** to unmute the device
 - Swipe the **Volume slider** to change the volume on the device
5. To **change the default sound and volume**, click on the **gear icon** on the home page and go to **Devices**. Click on the selected devices to enter the detailed view and go to the **Advanced tab**.

THERMOSTAT MODE

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the **expansion icon**.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
5. Click **Set Mode** and select the mode of your choice to activate it.

THERMOSTAT SETBACK

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the expansion icon.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
 - Click ON to set Comfort Mode
 - Click OFF to set Energy Saving Mode

THERMOSTAT SETPOINT

1. In your Z-Box online interface, click the **home icon**.
2. A list with all of your devices will display showing their current state or reported value.
3. To control your device, simply hover over the selected device and click on the expansion icon.
4. A sidebar on the right will appear showing the details and a control panel for the selected device.
5. Change the value under the temperature field to set a new Setpoint for the thermostat.

BATTERY

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display showing their current battery level under the Power column.

ASSOCIATION / MULTI-CHANNEL ASSOCIATION

See the *Z-Wave™ Associations* section on page 10.

FIRMWARE UPDATE

See the *Firmware Updates* section on page 13.

INDICATOR

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display, **click** on the selected **device** to enter the **detailed view**.
3. Go to the **Advanced** tab and click **Identify**.

OTHER

Any remaining command classes not listed above are subject to the same control procedure as the Basic Command Class. Please refer to your device's user manual to learn which command classes it supports and how it maps the values in the Basic Command Class to other command classes.

Z-WAVE™ ASSOCIATIONS

Set up associations to trigger one Z-Wave™ device with another Z-Wave™ device without the participation of the hub. Associations continue to work even if your Z-Wave™ hub is no longer available or damaged. Always program the associations on the triggering device.

Set-up association

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display, click on the selected device to enter the detailed view.
3. Go to the **Associations** tab.
4. Select the EndPoint and Association Group for your device. You'll find the details under the Association details in the user manual for your product.
5. Select the target device you'd like to control with your device via association.
6. Click the **+ (plus) icon** to finalize the association.
7. If your device is battery powered, wake it up manually for the association to finalize or wait for next automatic wake-up. You can find the manual wake-up procedure in the user manual for your product.

Delete association

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display, click on the selected device you want to remove the association from and enter the detailed view.
3. Go to the **Associations** tab.
4. Locate the association you'd like to delete and click the **trashcan icon** next to it.
5. If your device is battery powered, wake it up manually for the association to finalize or wait for next automatic wake-up. You can find the manual wake-up procedure in the user manual for your product.

Z-WAVE™ DEVICE REDISCOVERY

Device rediscovery is used to read any new capabilities or functionality from a device once it's been reconfigured (settings, parameters, or associations have changed). Here is how to rediscover your device after you make all of the changes:

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. A list with all of your devices will display, click on the selected device you want to remove the association from and enter the detailed view.
3. Go to the **Device configuration** tab.
4. Go to **Device reconfiguration** and click **Reconfigure device**.
5. If your device is battery powered, wake it up manually for the association to finalize or wait for next automatic wake-up. You can find the manual wake-up procedure in the user manual for your product.

ADD YOUR Z-BOX TO ANOTHER Z-WAVE™ NETWORK

Add to network

You can add your Z-Box to an existing Z-Wave™ network but only if you don't have any other devices added to the network at that time. Here is how to perform this set-up:

1. Once your host network is inclusion mode, open your Z-Box online interface, click the **gear icon** and go to **Z-Wave**.
2. Go to **Start Learn Mode** and click **Start**.
3. You may need to enter a secure PIN code during inclusion – find it printed on the label on the bottom part of your Z-Box Hub.

Network Backup

You can copy network information from the primary to secondary controller if needed. This process is also referred to as network replication and includes copying information such as node list and communication routes. This advanced functionality should only be applied in multiple network settings by expert Z-Wave™ users.

How to copy network information **from your Z-Box hub to another Z-Wave™ controller**:

1. In your Z-Box online interface, click the **gear icon** and go to **Devices**.
2. Click the **+ icon** and select **Z-Wave Device**.
3. Select the option that best fits your preference:

- **NWI** (Network Wide Inclusion) to add a device using network repeaters if it's outside of the hub's direct range (recommended)
 - **S2 security** (select only if your device supports S2 unauthenticated or S2 authenticated SmartStart security)
 - **Near proximity inclusion** (select only if the device is located in the same room as the hub)
4. Click **Start adding**.
 5. Follow the manufacturer's instructions to activate the hub for inclusion by starting the Learn Mode. This information can be found in the product's user manual.
 6. Wait a few minutes for the network information to sync between both controllers.

How to copy network information **to your Z-Box hub from another Z-Wave™ controller:**

1. Follow the manufacturer's instructions to initiate inclusion mode on the other Z-Wave™ hub. This information can be found in the product's user manual.
2. Open your Z-Box online interface, click the **gear icon** and go to **Z-Wave**.
3. Go to **Start Learn Mode** and click **Start**.
4. Wait a few minutes for the network information to sync between both controllers.

DSK and security PIN

The full DSK code for your Z-Box Hub can be found on the label on the back of the device.

If you don't have any devices added to your Z-Box Hub or if it's added to another network as a secondary controller (but not as a Static Update Controller), you can also retrieve the DSK from the hub's interface:

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave**.
2. Go to **Start Learn Mode** and click **Start**.
3. Click the **code window icon** in the left sidebar to open the Console where the full DSK of the hub can be found.

FACTORY RESET

Reset your Z-Box Hub

NOTE: You'll lose all of your network information, including device information, automations, and setting if you proceed without a back-up.

You'll need to exclude and re-include all of the devices that are deleted from the network during a factory reset.

Once the hub is reset, it will be fully restored to factory settings and all user, device, and automation data will be removed. That includes scenes, rooms, and any advanced settings as well.

If your Z-Box Hub is set up as a secondary controller, please follow these steps only if the primary controller is missing or otherwise inoperable.

Here's how to reset your Z-Box Hub:

1. In your Z-Box online interface and click your username in the top right corner.
2. Select **Recovery Mode** from the menu and click **Confirm**.
3. The system will start rebooting, observe the hub's LED indicator which should be pulsing red.
4. Once the LED indicator turns solid red, please refresh the online interface site in your browser.
5. Go to the **Network Status** section and click **Factory Reset**.
6. **Check** the checkbox next to the **"Yes, I'm sure and I know what I'm doing"** disclaimer.
7. Click **Confirm**.

Z-Wave™ network reset

You can reset your Z-Wave™ network to delete all Z-Wave™ devices from the hub's memory. No other settings or data will be removed but any scenes or automations using Z-Wave™ devices will no longer work. You'll need to exclude or reset any of the deleted Z-Wave™ devices to be able to add them to another network or re-add them to your Z-Box Hub.

Here is how to reset your Z-Wave™ network:

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave**.
2. Go to **Reset Z-Wave** and click **Reset**.
3. Click **Confirm**.

FIRMWARE UPDATES

Z-Box firmware updates

1. In your Z-Box online interface, click the **gear icon** and go to **Update > Z-Box**.
2. Click **Download Update** for the version you'd like to update to.
3. Wait for the update file to be downloaded.
4. Select a cloud backup, local backup, or no backup option before you proceed with the update.
5. Accept the Terms and Privacy Policy for your hub.
6. Click on **Install Update**.
7. Click **Update** to finalize the process.

Z-Wave™ device firmware updates

1. In your Z-Box online interface, click the **gear icon** and go to **Z-Wave**.
2. Go to the **Firmware update** tab.
3. A list with all of your devices will display, click **Upload File** next to the device you'd like to update.
4. Select the update file for the device from your computer.
5. Click **Start update**.

Z-WAVE™ SPECIFICATION

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.

Supported Command Classes

Command Class Name	Version	Security
COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]	V2	NO
COMMAND_CLASS_TRANSPORT_SERVICE [0x55]	V2	NO
COMMAND_CLASS_CRC_16_ENCAP [0x56]	V1	NO
COMMAND_CLASS_APPLICATION_STATUS [0x22]	V1	NO
COMMAND_CLASS_SUPERVISION [0x6C]	V1	NO
COMMAND_CLASS_INCLUSION_CONTROLLER[0x74]	V1	NO
COMMAND_CLASS_TIME [0x8A]	V1	NO
COMMAND_CLASS_MULTI_CMD [0x8F]	V1	NO
COMMAND_CLASS_SECURITY [0x98]	V1	NO
COMMAND_CLASS_SECURITY_2 [0x9F]	V1	NO
COMMAND_CLASS_VERSION [0x86]	V3	YES
COMMAND_CLASS_NETWORK_MANAGEMENT_INCLUSION [0x34]	V3	YES
COMMAND_CLASS_NETWORK_MANAGEMENT_PROXY [0x52]	V3	YES
COMMAND_CLASS_NETWORK_MANAGEMENT_BASIC [0x4D]	V2	YES
COMMAND_CLASS_NETWORK_MANAGEMENT_INSTALLATION_MAINTENANCE [0x67]	V2	YES
COMMAND_CLASS_POWERLEVEL [0x73]	V1	YES
COMMAND_CLASS_MANUFACTURER_SPECIFIC[0x72]	V2	YES
COMMAND_CLASS_NODE_PROVISIONING [0x78]	V1	YES
COMMAND_CLASS_FIRMWARE_UPDATE_MD [0x7A]	V5	YES
COMMAND_CLASS_INDICATOR [0x87]	V3	YES
COMMAND_CLASS_ASSOCIATION [0x85]	V2	YES
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION[0x8E]	V3	YES
COMMAND_CLASS_ASSOCIATION_GRP_INFO [0x59]	V3	YES
COMMAND_CLASS_DEVICE_RESET_LOCALLY [0x5A]	V1	YES

Controlled Command Classes

Command Class Name	Version
COMMAND_CLASS_SENSOR_ALARM [0x9C]	V1
COMMAND_CLASS_BASIC [0x20]	V2
COMMAND_CLASS_SENSOR_BINARY [0x30]	V2
COMMAND_CLASS_SWITCH_BINARY [0x25]	V2
COMMAND_CLASS_CENTRAL_SCENE [0x5B]	V3
COMMAND_CLASS_CLOCK [0x81]	V1
COMMAND_CLASS_SWITCH_COLOR [0x33]	V3
COMMAND_CLASS_DOOR_LOCK [0x62]	V4
COMMAND_CLASS_METER [0x32]	V6
COMMAND_CLASS_SENSOR_MULTILEVEL [0x31]	V11
COMMAND_CLASS_SWITCH_MULTILEVEL [0x26]	V4
COMMAND_CLASS_NOTIFICATION [0x71]	V8
COMMAND_CLASS_PROTECTION [0x75]	V2
COMMAND_CLASS_SCENE_ACTIVATION [0x2B]	V1
COMMAND_CLASS_SOUND_SWITCH [0x79]	V1
COMMAND_CLASS_THERMOSTAT_FAN_MODE [0x44]	V5
COMMAND_CLASS_THERMOSTAT_FAN_STATE [0x45]	V2
COMMAND_CLASS_THERMOSTAT_MODE [0x40]	V3
COMMAND_CLASS_THERMOSTAT_OPERATING_STATE [0x42]	V2
COMMAND_CLASS_THERMOSTAT_OPERATING_STATE [0x42]	V3
COMMAND_CLASS_BATTERY [0x80]	V2
COMMAND_CLASS_WAKE_UP [0x84]	V2
COMMAND_CLASS_MULTI_CHANNEL [0x60]	V4
COMMAND_CLASS_ZWAVEPLUS_INFO [0x5E]	V2
COMMAND_CLASS_TRANSPORT_SERVICE [0x55]	V2
COMMAND_CLASS_CRC_16_ENCAP [0x56]	V1
COMMAND_CLASS_APPLICATION_STATUS [0x22]	V1
COMMAND_CLASS_SUPERVISION [0x6C]	V1
COMMAND_CLASS_INCLUSION_CONTROLLER [0x74]	V1
COMMAND_CLASS_SECURITY [0x98]	V1
COMMAND_CLASS_SECURITY_2 [0x9F]	V1
COMMAND_CLASS_VERSION [0x86]	V3
COMMAND_CLASS_MANUFACTURER_SPECIFIC [0x72]	V2
COMMAND_CLASS_FIRMWARE_UPDATE_MD [0x7A]	V5
COMMAND_CLASS_INDICATOR [0x87]	V3
COMMAND_CLASS_ASSOCIATION [0x85]	V2
COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION [0x8E]	V3
COMMAND_CLASS_ASSOCIATION_GRP_INFO [0x59]	V3
COMMAND_CLASS_DEVICE_RESET_LOCALLY [0x5A]	V1

Association Command Class

The Z-Box Hub supports Group 1 for Lifeline communication with maximum 1 device added to this group.

The hub sends a Device Reset Locally notification to the device in Group 1 after a Z-Wave™ reset.

Group 1 details:

Group Name: Lifeline

Profile: General Lifeline (0x00: 0x01)

Command Class and Command: COMMAND_CLASS_DEVICE_RESET_LOCALLY [0x5A]
DEVICE_RESET_LOCALLY_NOTIFICATION [0x01]

Basic Command Class

The Basic Command Class doesn't have any functionality assigned on this hub. Basic Get requests are ignored.

Indicator Command Class

Available indicators:

Indicator ID: 0x50 (identify)

Available properties:

Property ID	Description	Values and Notes
0x03	On/Off Duration	The device will start toggling between on and off states if the indicator command class is used. Set the duration for each On/Off Cycle to determine the blinking or flashing speed of the device. Available values: 0x00 .. 0xFF (0 .. 25.5 seconds) NOTE: If this value is set, you also need to set a value for the On/Off Cycle Limit.
0x04	On/Off Cycle Limit	Set a limit for on/off cycles (the total number the device will flash on and off). Available values: 0x00 .. 0xFE (0 .. 254 cycles) 0xFF (continue until cancelled) NOTE: If this value is set, you also need to set a value for the On/Off Duration.
0x05	On Duration Per Cycle	Set the On duration for each On/Off Cycle if you'd like the device to remain on longer than off in each toggle cycle. This can help create a unique flashing or blinking pattern. Available values: 0x00 (On duration is equal to Off duration) 0x01 .. 0xFF (0.1 .. 25.5 seconds) Example: to set 0.5 seconds for Off duration and 0.3 seconds for On duration, program the On/Off Duration as (0x03) = 0x08 and On Duration Per Cycle as (0x05) = 0x03 NOTE: If the On/Off Duration is not defined or if the value set for the On/Off Duration is smaller than the value set for the On Duration Per Cycle, then the value entered for the On Duration Per Cycle property is ignored.

Identify the Z-Box hub using its LED indicator:

The LED indicator on the Z-Box Hub will blink orange 3 times when identified (in 0.6 second On and 0.2 second off cycles)

Security Command Class

The Z-Box Hub is a security enabled controller which supports S0, S2 Unauthenticated, S2 Authenticated, and S2 Access Control security levels.

The device you add to your Z-Box Hub needs to support the desired security level for full functionality and encrypted communication.