Z-Wave Me ZME mPCIe Adaptor Z-Wave and Zigbee Thread

Z-Wave Me ZME mPCIe Adaptor Z-Wave and Zigbee Thread Instruction Manual

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Z-WAVE>ME

Z-Wave Me ZME mPCIe Adaptor Z-Wave and Zigbee Thread

Specifications

- **Z-Wave Transceiver:** Silicon Labs ZGM130S
- **Z-Wave Protocol:** Z-Wave PlusTM v2 and Z-Wave Long Range
- **Zigbee Transceiver:** Silicon Labs EFR32MG21P
- **Wireless Range:** Min. 40m indoor in direct line of sight (measured with Linx Technologies Inc antenna)
- **Dimensions:** 30 x 51 x 4 mm
- **Interface:** USB (mPCIe form factor)
- **USB driver:** Silicon Labs CP2105
- **Z-Wave frequency range:**
  - 865-869 MHz: Europe (EU), India (IN), Russia (RU), China (CN), South Africa (EU), Middle East (EU)
  - 908-917 MHz: America, excluding Brazil and Peru (US), Israel (IL)
  - 919-921 MHz: Australia / New Zealand / Brazil / Peru (ANZ), Hong Kong (HK), Japan (JP), Taiwan (TW), Korea (KR)
- **Zigbee/Thread frequency range:** 2.4 GHz, IEEE 802.15.4

Product Usage Instructions

Installation Steps

1. Install the Z-Wave & Zigbee/Thread mPCIe adaptor in your embedded hardware.
2. Install Z-Way software. The maximum potential of the adaptor is achieved together with Z-Way software. Visit **https://storage.z-wave.me/z-way-server/** to install Z-Way on your embedded hardware. Supported platforms are: Debian/Ubuntu x64, Raspbian OS armhf (32 bits), FreeBSD (C library only), and Windows 32 bits.

User Interface

The Smart Home user interface looks similar on different devices such as desktops, smartphones, or tablets but adapts to the screen size. The user interface is intuitive and simple:

1. Favourite devices are displayed on the Dashboard.

FAQ

Q: What are the supported platforms for installing Z-Way software?

A: The supported platforms for installing Z-Way software are Debian/Ubuntu x64, Raspbian OS armhf (32 bits), FreeBSD (C library only), and Windows 32 bits.

Q: What is the wireless range of the adaptor?

A: The wireless range is a minimum of 40m indoors in a direct line of sight, measured with the Linx Technologies Inc antenna.

Congratulations! You have got a modern Z-Wave™ & Zigbee/Thread mini PCI Express adaptor. It will transform your computer into a full-featured smart home gateway.

Installation Steps

1. Install the Z-Wave & Zigbee/Thread mPCIe adaptor in your embedded hardware.
2. Install Z-Way software

   The maximum potential of the Z-Wave & Zigbee/Thread mPCIe adaptor is achieved together with Z-Way software.

   To install Z-Way on your embedded hardware visit **https://storage.z-wave.me/z-way-server/site**. Supported platforms are Debian/Ubuntu x64, Raspbian OS armhf (32 bits), FreeBSD (C library only), and Windows 32 bits.

NOTE: Z-Wave & Zigbee/Thread mPCIe Adaptor is also compatible with other third-party Z-Wave software supporting Silicon Labs Z-Wave Serial API.
After the successful installation of Z-Way, make sure that you are in the same local network as your embedded hardware and open the Z-Way Web UI using a browser by typing in the address bar:http://IP:8083.

PRIVACY NOTE: Z-Way by default connects to the server find.z-wave.me to provide remote access. If you don't need this service, you can turn off this feature after logging into Z-Way (Main menu > Settings > Remote Access). All communications between Z-Way and the server find.z-wave.me are encrypted and protected by certificates.

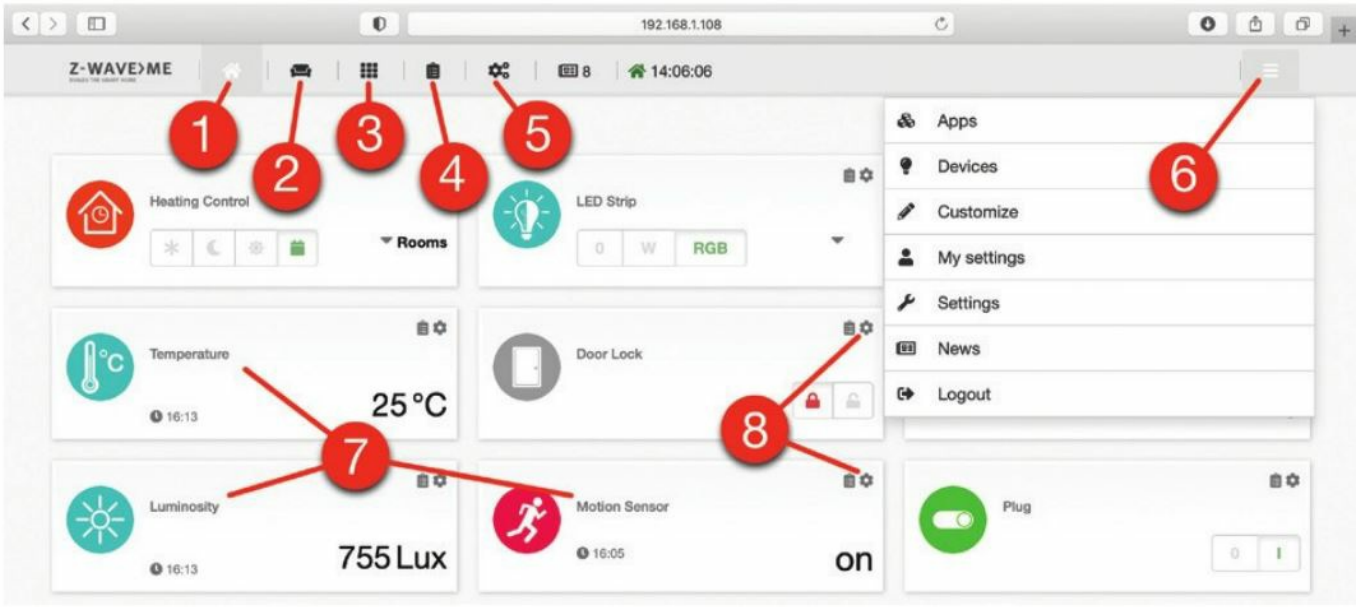
Learn More

Full documentation, training videos and technical support can be found on the website **https://z-wave.me/products/mpcie/**.
You can change the radio frequency of the Z-Wave & Zigbee/Thread mPCIe Adaptor at any time by going to the Expert UI http://IP:8083/expert, Network > Control and selecting the desired frequency from the list. The Z-Wave & Zigbee/Thread mPCIe Adaptor constantly improves and adds new features. To use them, you need to update the is done from the Z-Way Expert UI under Network > Controller Information.

Interface

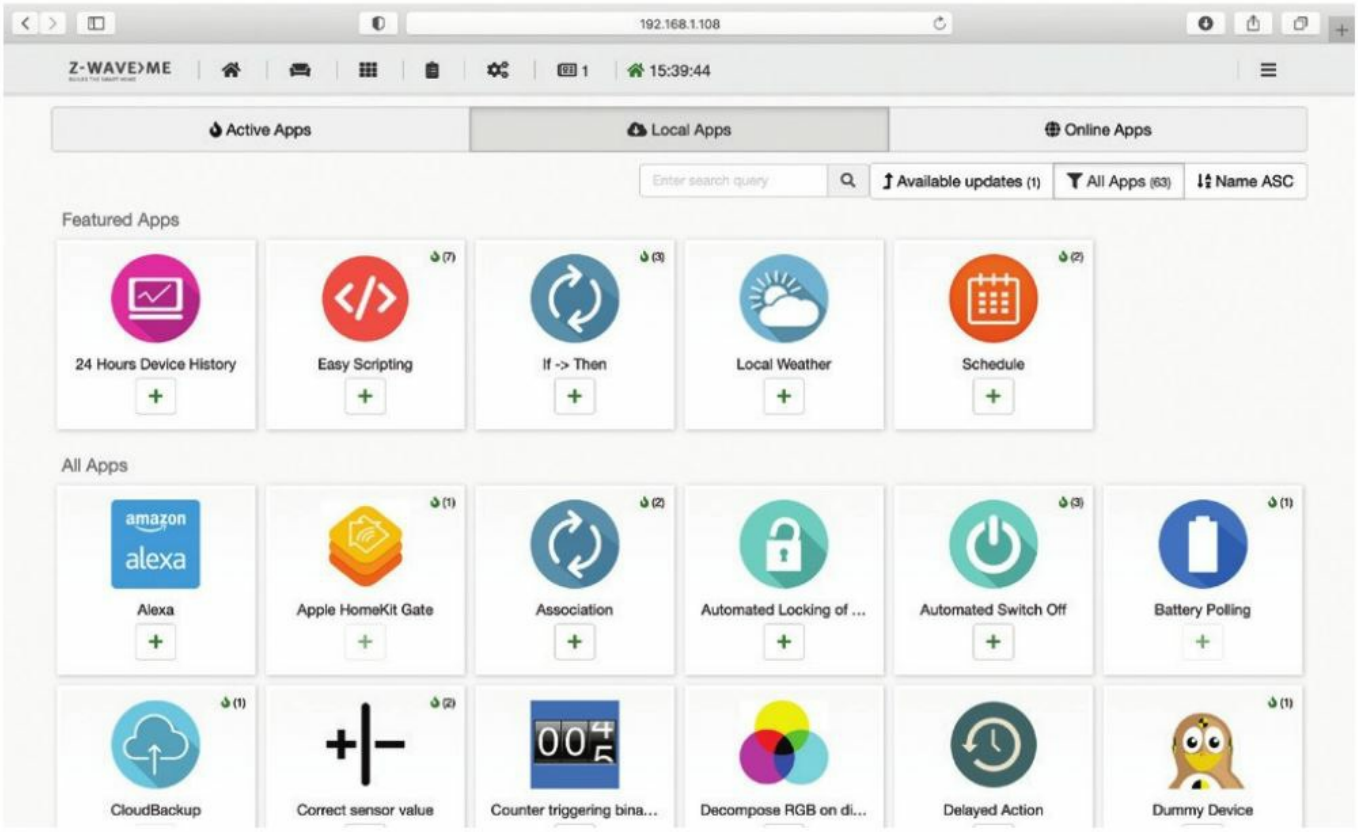
The "Smart Home" user interface looks similar on different devices such as desktops, smartphones or tablets, but adapts to the screen size. The user interface is intuitive and simple:

- Dashboard (1)
- Rooms (2)
- Widgets (3)
- Events (4)
- Quick automation (5)
- Main menu (6)
- Device widgets (7)
- Widget settings (8)

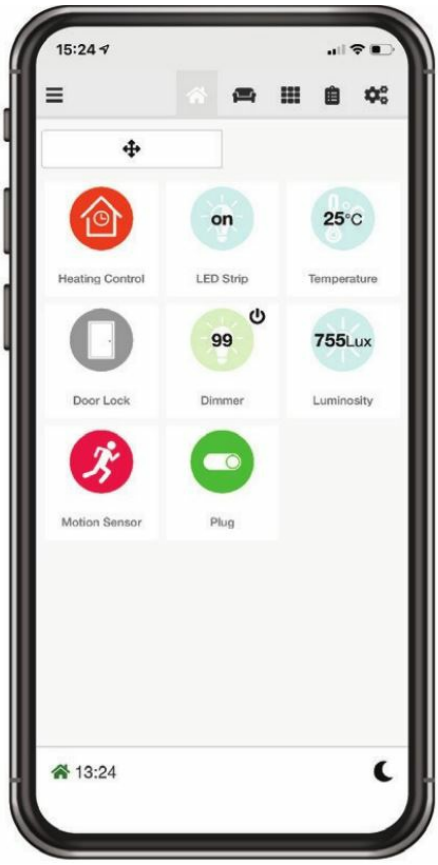


1. Favorite devices are displayed on the Dashboard (1)
2. Devices can be assigned to a Room (2)
3. The full list of all devices is in Widgets (3)
4. Every sensor or relay triggering are displayed in Events (4)
5. Set up scenes, rules, schedules and alarms in Quick Automation (5)
6. Apps and system settings are in the Main menu (6)

A device can provide several functions, for example, a 3-in-1 Multisensor provides motion sensor, light sensor and temperature sensor. In this case there will be three separate widgets (7) with individual settings (8).
Advanced automation can be configured using local and online Apps. Apps allow you to set up rules like “IF > THEN”, to create scheduled scenes, set auto off timers. Using applications you can also add support for additional devices: IP cameras, Wi-Fi plugs, EnOcean sensors and set up integrations with Apple HomeKit, MQTT, IFTTT etc. More than 50 applications are built-in and more than 100 can be downloaded for free from the Online Store. Applications are managed in the Main menu > Apps.



Mobile App Z-Wave. Me



Download on the App Store

GET IT ON Google Play

Hardware Specification

Z-Wave Transceiver	Silicon Labs ZGM130S
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Zigbee Transceiver	Silicon Labs EFR32MG21P
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Zigbee/Thread frequency range	2.4 GHz, IEEE 802.15.4

FCC STATEMENT

FCC Device ID: 2ALIB-ZMEMPCIEZWZB
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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20mm between the radiator & your body. Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01

Information on test modes and additional testing requirements:
IEEE 802.15.14 (Zigbee/Thread):

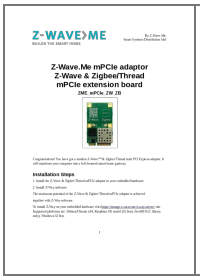
- **Operation Frequency:** 2402~2480 MHz
- **Number of Channels**: 40 Channels
- **Modulation Type**: OQPSK
- **Antenna Type:** External antenna (Provided by LAB)
- **Antenna Gain (Peak):** 1.5 dBi (Provided by LAB)

Z-Wave:

- **Operation Frequency:** 908.42 MHz, 912 MHz, 916 MHz, 921 MHz
- **Number of Channels:** 4 Channels
- **Modulation Type:** GFSK
- **Antenna Type:** External antennai (Provided by LAB)
- **Antenna Gain (Peak):** 1.5 dBi (Provided by LAB)

The module can be used for mobile or portable applications with a maximum 1.5dBi antenna. The host manufacturer installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation. The host manufacturer has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

Documents / Resources

	Z-Wave Me ZME mPCIe Adaptor Z-Wave and Zigbee Thread [pdf] Instruction Manual ZME mPCIe Adaptor Z-Wave and Zigbee Thread, ZME, mPCIe Adaptor Z-Wave and Zigbee Thread, Z-Wave and Zigbee Thread, Zigbee Thread, Thread

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