Z-Wave & Zigbee/Matter USB adaptor

ZMatter USB

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

Installation Steps

1. Attach the antennas using the antenna with the yellow band for Z-Wave and the antenna with the red band for Zigbee/Matter

2. Plug in the Z-Wave & Zigbee/Matter USB adaptor into any available USB port.

3. Install the Z-Way software application of your choice

Z-Wave & Zigbee/Matter USB adaptor is also compatible with other third party Z-Wave software supporting Silicon Labs Z-Wave Serial API.

Supported platforms are: Debian/Ubuntu x64, Raspbian OS armhf (32 bits), FreeBSD (C library only), Windows 32 bits.

Hardware Specification

Z-Wave Transceiver	Silicon Labs ZGM130S
Z-Wave Protocol	Z-Wave Plus™ v2 and Z-Wave Long Range
Zigbee Transceiver	Silicon Labs EFR32MG21P
Wireless Range	Min. 40 m 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...920 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/Matter frequency range	2.4 GHz, IEEE 802.15.4

FCC STATEMENT

Contains 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, 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 uses 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 or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into 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 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/Matter):

Operation Frequency: 2402~2480 MHz
Number of Channel: 40 Channels
Modulation Type: OQPSK
Antenna Type: External antennai (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 Channel: 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 composit product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operaition. 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.