



HUSBZB-1

USB Z-Wave & ZigBee Adapter



INTRODUCTION

HubZ is a USB v2.0 full speed low power Z-Wave and ZigBee adapter in a USB Stick form factor. When plugged into computer or similar host device, it appears as two (2) serial ports. This device requires an application from a third party to operate. When power is supplied through the USB port, a blue LED on the front will be illuminated. Once the user application is running, the LED may be used to display various types of status information.

Z-WAVE OPERATION

HubZ is an independently controlled Z-Wave static controller that requires an application from a third party to operate. The application will control such functions as Inclusion, Exclusion and Replication.

Inclusion – The process of **adding** a node into the Z-Wave network

Exclusion – The process of **removing** a node from the Z-Wave network

Replication – The process of **copying** network information from one controller to another

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All non-battery operated nodes within the network will act as repeaters, regardless of vendor, to increase reliability of the network.

ZIGBEE OPERATION

HubZ is effectively a USB to UART bridge connected to a Silicon Labs EM3581 ZigBee module that allows connectivity to a computer's USB port.

UPGRADE ABILITY

HubZ is designed to support firmware upgrades via the USB port.

SPECIFICATIONS

Operating Temp	-32 to 122 F (0 to 50 C)
Minimum Operating Voltage (USB VBUS supply)	0.4V
Maximum Operating Voltage (USB VBUS supply)	6V
Typical current consumption	80 mA
Dimensions	2.39" x 0.99" x 0.33"
Z-Wave Developer's Kit	6.51.06
Z-Wave Operating Frequency	908.42 MHz / 916 MHz
ZigBee Developer's Kit	Silicon Labs EmberZNet Pro Release 5.4
ZigBee Operating Frequency:	2.4 GHz

REGULATORY INFORMATION

We, Nortek Security & Control, LLC of 1950 Camino Vida Roble STE 150, Carlsbad, CA 92008, declare under our sole responsibility that the device, HUSBZB-1, complies with Part 15 of the FCC rules.

To satisfy FCC/IC RF exposure safety requirements, a separation distance of 20 cm or more should be maintained between this device and person's body (excluding extremities: hands, wrists, feet and ankles).

FCC Notice

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 received that may cause undesired operation.

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:

- Reorient 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 to help.

IC Notice

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device complies with Industry Canada license exempt standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WARRANTY

This Nortek Security & Control product is warranted against defects in material and workmanship for twelve (12) months. **This warranty extends only to wholesale customers** who buy direct from Nortek Security & Control or through Nortek Security & Control's normal distribution channels. **Nortek Security & Control does not warrant this product to consumers.** Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Nortek Security & Control for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. **This Nortek Security & Control LLC Warranty is in lieu of all other warranties express or implied.** All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Returns at 1-855-546-3279 for an RPA# and other important details.

IMPORTANT !!!

Radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

Z-Wave® is a registered trademark of Sigma Designs