

Smart Z-wave Module User Manual

Introduction:

Smart Z-wave Module can be 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. (Certified Z-wave hub required).

Important Safety Information:

- Suitable for use in operating environment between -4°F and 104°F (-20°C and 40°C).
- Indoor use only.

Hardware Specifications

Wireless Protocol	Z-Wave
Radio Frequency	908.42MHz(US)
Maximum Transmitted Output Power	+10dBm
Antenna Information	Internal Antenna /0dBi
Communication Distance	Over 100m
Modulation Mode	FSK(BFSK/GFSK)
Voltage(V)	120V , 60Hz
Dimensions(mm)	20 mm *42mm

Wireless Specifications:

SDK Version	7.14.3
SDK Library	Flex 3.0.2.0
Explorer Frame Support	yes
Routing	yes
SmartStart	yes
Device Type	Multilevel Switch
Basic Device Class	Routing Slave
Generic Device Class	Switch Multilevel
Specific Device Class	Power Switch Multilevel
Role Type	Slave Always On

Installation Instructions(Add for inclusion):

Note: This Module can only work with a smart Z-wave hub.

Reset Instructions manually:

To reset your Device to factory mode, ensure that the module is on firstly, then quickly turn it off and on at least 5 times (using a light switch or power bar works best). If the reset is successful, the bulb will flash 3 times. If it does not flash 3 times, you will have to try again. Once successfully reset, please try to pair it again.

FCC Certification Requirements.

According to the definition of mobile and fixed device is described in Part 2.1091(b), this device is a mobile device.

And the following conditions must be met:

1. This Modular Approval is limited to OEM installation for mobile and fixed applications only. The antenna installation and operating configurations of this transmitter, including any applicable source-based time- averaging duty factor, antenna gain and cable loss must satisfy MPE categorical Exclusion Requirements of 2.1091.
2. The EUT is a mobile device; maintain at least a 20 cm separation between the EUT and the user's body and must not transmit simultaneously with any other antenna or transmitter.
3. A label with the following statements must be attached to the host end product: This device contains FCC ID: XMR201807BC95D.
4. To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, maximum antenna gain (including cable loss) must not exceed:
 - Band111(Tx: 1915MHz~1920MHz): <4dBi
 - Band222(Tx: 1915MHz~1920MHz): <4dBi
5. This module must not transmit simultaneously with any other antenna or transmitter
6. The host end product must include a user manual that clearly defines operating requirements and conditions that must be observed to ensure compliance with current FCC RF exposure guidelines.

For portable devices, in addition to the conditions 3 through 6 described above, a separate approval is required to satisfy the SAR requirements of FCC Part 2.1093

If the device is used for other equipment that separate approval is required for all other operating configurations, including portable configurations with respect to 2.1093 and different antenna configurations.

For this device, OEM integrators must be provided with labeling instructions of finished products. Please refer to KDB784748 D01 v07, section 8. Page 6/7 last two paragraphs:

A certified modular has the option to use a permanently affixed label, or an electronic label. For a permanently affixed label, the module must be labeled with an FCC ID - Section 2.926 (see 2.2 Certification (labeling requirements) above). The OEM manual must provide clear instructions explaining to the OEM the labeling requirements, options and OEM user manual instructions that are required (see next paragraph).

For a host using a certified modular with a standard fixed label, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module: "Contains Transmitter Module FCC ID: XMR201807BC95D" or "Contains FCC ID: XMR201807BC95D" must be used. The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID.

The final host / module combination may also need to be evaluated against the FCC Part 15B criteria for unintentional radiators in order to be properly authorized for operation as a Part 15 digital device.

The user's manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be

included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

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.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements.