# MD-1150 Zigbee Module

Model name: MD-1150

FCC ID: 2ABFD-MD1150

IC CERTIFICATION NUMBER: 1156A-MD1150

MD-1150 is a printed circuit board module with edge connectors that allow for quick product integration of Zigbee protocols without requiring extensive knowledge of the implementation. This hardware module includes the Freescale MKW24D512V chip set, which specifies the following:

- A 2.4 GHz IEEE 802.15.4 compliant radio transceiver.
- Typical applications include Home Area Networks consisting of meters, gateways, in-home displays, and connected appliances, and also networked Building Control and Home Automation applications with lighting control, HVAC, and security.
- Up to -102 dBm receiver sensitivity, +10 dBm maximum transmit output power, and up to 58 dBm channel rejection. Current consumption is minimized with peak transmit current of 17 mA at 0 dBm output power, and peak receive current of 15 mA in Low Power Preamble Search mode.

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.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

Any changes or modifications of this product not approved by the manufacturer could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

This equipment complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Under Innovation, Science and Economic Development Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

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 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 for help.

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

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