| Living Independently Group, Inc. | | PRODUCT MANUAL | |
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| TITLE: | **ZIGBEE USB QC101200** | | |
| REVISION: | 1.0 | DATE: | **1/19/08** |

# Product Description

The Zigbee USB device is a Zigbee Coordinator, designed to connect to the Quiet Care base station or other USB-compatible computer system.

# Features

- Compact design
- USB-powered
- Custom designed long-range radio

# Installation

- Please familiarize yourself with the concepts of Zigbee Networking with the "Understanding Sensor Networking" paper.
- This Coordinator must be set up before setting up any routers or sensors.
- While holding down the multifunction button on the top of the unit, plug the unit into the powered-up base station. (Holding down the Multifunction button clears out the Associated Device table so the unit is ready for a new network configuration)

# Commissioning

- Once installed the coordinator will save the network configuration in onboard flash memory so that if the base station suffers a power failure, the network will be re-established exactly as it was prior to the outage. Thus no other user interaction is needed.

# Operation

In normal operation the user need not interact with the ZigbeeUSB coordinator. You will noticed the blue LED will flash occasionally. This indicates some interaction with the base station computer, usually that there is some zigbee traffic going on.

# Technical Specs

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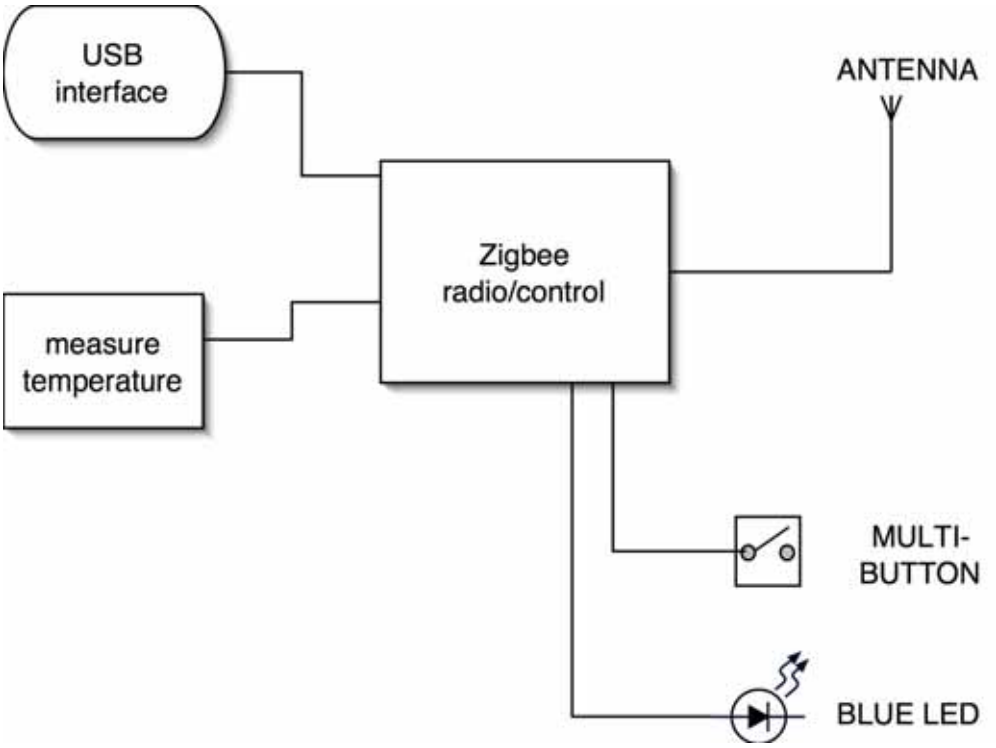
|---|---|
| Voltage | 5V @ 100mA via USB (low power USB device) |
| Temperature range | -10ºC to 40ºC |
| Enclosure | High impact ABS plastic |
| Communication | IEEE 802.15.4 Zigbee, 2.4GHz ISM band, +10dBi max output |
| Typical range indoor | 100 feet (30m) |
| Typical range outdoor | 800 feet (300m) |
| Zigbee profile | HA (Home Automation) monitoring device (computer) |

# Block diagram




# Approvals

FCC ID OU4-QC101200 / IC: 4576A-QC101200
INSTRUCTIONS TO THE USER:
The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.
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 interferences 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 for help.

CE directive 93/68/EEC, EMC directive 89/336/EEC, LV directive 73/23/EEC
This class B digital apparatus complies with Canadian ICES-003

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

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.

FCC NOTE:
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.