

# RN-200

## Radionode Wireless Router



- ✓ 2.4GHZ IEEE 802.15.4
- ✓ Front LED Indicator for Child Node.
- ✓ Magnet Wall Mount



### Overview

RN200 wireless router is designed to extend RF distance and the number of sensors. It can relay RN-300 sensor's data to the host or another wireless router. So it can create a tree topology wireless network.

Also it can handle up to eight wireless node including RN-200 router or RN-300 wireless sensor.

LED indicator represents the number of child node. When installing the wireless network, this intuitive indicator makes it easier.

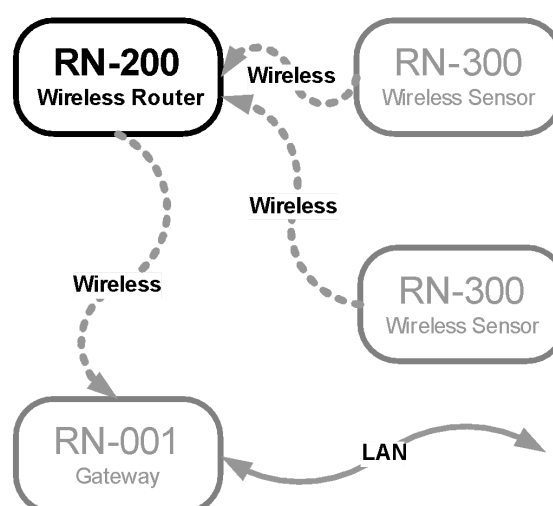
### Application

- Expanding RF network area
- Extending the number of nodes.

### Where to Use

- Food Service
- Live Stock
- Warehouse
- Medical Industry
- Manufacturing Facility
- Server Room

### Block Diagram



## 1. Specification

RN-200 Specification	
Dimension	69 * 50 * 22 (mm)
Power	6V DC
Antenna	RN-200 PLUS : External Dipole ANT
Communication	IEEE 802.15.4 (2.4GHZ , 16 Channel)
Network	Tree Topology
RF Distance	RN-200 PLUS :700m (Open Space)
RF Power	RN-200 PLUS :TX: 20dB, RX: -96dB
Power Consumption	TX 110mA, RX 23mA
Wall Mount	Magnet

## 2. Operation

### 2.1 Power


RN-200 Wireless router use the given 6V power supply.

### 2.2 Transmitting Interval

A transmitting interval time can be changed by the host device. Normally 10 minutes are set.

### 2.3 Wireless Connection

As long as the host device is working, RN-200 router can be connected to the host. The host device can be RN-001 gateway or another RN-200 router. As soon as power is connected, All 4 LED will be blinking searching the host device. Once the host is detected, it will stop blinking. And it represents the number of connected nodes.

Description	LED Indication
Total one child node is connected.	 The image shows the RN-200 Communicator Router. It has a screen displaying a signal tower icon with three concentric arcs above it. Below the screen, there are four LEDs. The first LED from the left is lit, while the other three are unlit. The text 'RN-200 Communicator Router' and 'RADIOHIDE' are visible on the device.

Total five children are connected.	
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### 3. Trouble shooting

- In case of too long distance, try it again at closer location to the host.
- In case of disconnection, please check the total number of devices.  
If it is more than eight nodes, you need to another router device. It can expend an available wireless capacity.
- In case of disconnection in near distance, please check the network ID. The host and sensor should have a same network ID. Default network ID is 303. And you can check network ID in the host device.(RN-001)

### 4. Warranty

- 1 Year Warranty Service for free

### 5. Contact

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