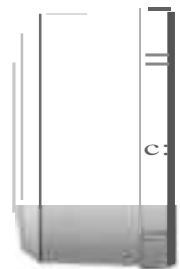


# Repeater

## Product Manual

# Onity



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# Contents

- 1 Repeater Installation . . . . .3**
  - 1.1 Overview . . . . . 3
  - 1.2 Exploded View of Repeater . . . . . 3
  - 1.3 Repeater Assembly and Installation . . . . . 4
- 2 Certifications . . . . .5**
  - 2.1 Environmental Compliance . . . . . 5
  - 2.2 Label Requirement. . . . . 6
  - 2.3 General . . . . . 6
  - 2.4 Environmental . . . . . 6
  - 2.5 Frequency . . . . . 6
  - 2.6 Regulatory . . . . . 6
  - 2.7 IP Rating . . . . . 6
  - 2.8 Installations . . . . . 6

# Description

Onity's Repeater is meant for range extension which is having Bluetooth® 5.1 radio capabilities. It works as a bridge between Lock to room thermostat if Lock or Thermostat unable to communicate each other.

It will act as the bridge between the paired Thermostat & Lock by receiving the data from Lock & sending ahead to Thermostat over Bluetooth®.

Devices (Repeater Lock) within a room will be connected and one of the devices (Edge/Proxy) connects to Thermostat of that room, Thermostat connects to RMS system (here Edge router, DMS server) providing path to communicate with Front Desk Server (Onportal server). Devices connected within a room with Thermostat will be called as network branch.

The device enrollment process will join a node to the network and creates routing table using which messages to different nodes can be routed

***But it doesn't amplify the signal (RF) in any forms, just extend the range by retransmitting the same data as received without any amplification.***

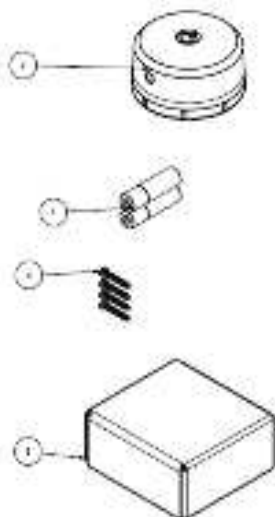
## 1 Repeater Installation

Each Repeater package includes the following:

- 1 Repeater unit
- 2 AA batteries
- 4 Screws (M3.9 x 25mm)

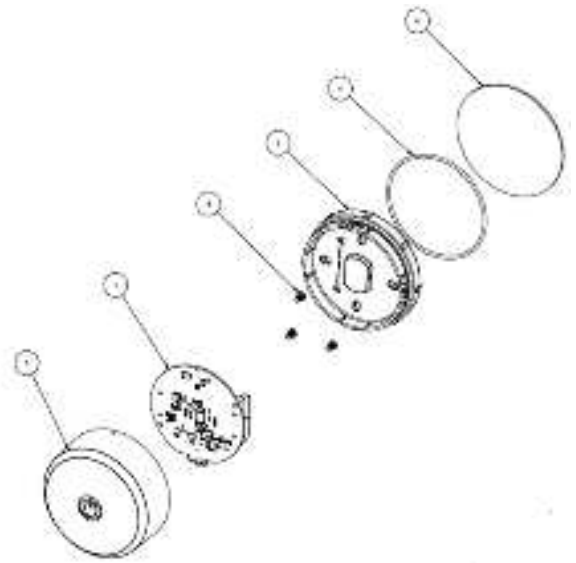
### 1.1 Overview

1. Batteries (AA, 1.5V, Alkaline)
2. Assy, Repeater, Serene, White
3. Box (4 x 4 x 2), Repeater, Serene
4. Screws (4-M3.9 x 25mm), Round-headed Philips



## 1.2 Exploded View of Repeater

1. Assy, CKA, Control Board, Repeater
2. Assy, Bracket, Repeater, Serene, White
3. PL Housing, Repeater, Serene, White
4. O-Ring, 72 x 3 mm
5. Screws, M3 x 5mm
6. Elast, Gasket, Repeater



## 1.3 Repeater Assembly and Installation

1. Hold Repeater base and rotate enclosure (top cover) clockwise.
2. Insert batteries in top cover, aligning them with the correct polarity.



3. Using the 4 M3.9 x 25mm screws, attach the base to the wall.
4. Attach Repeater housing to base. To do so, align the dot on the Repeater housing with the snap groove on the base, as illustrated below, then push the housing toward the



base.

5. Twist the housing while holding the base firmly until it clicks into position.

## 2 Certifications

<b>Canada (ISED)</b>	<p>This device complies with Innovation, Science, and Economic Development (ISED) Canada's license-exempt RSS(s). Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"><li>1. This device may not cause interference.</li><li>2. This device must accept any interference, including interference that may cause undesired operation of the device.</li></ol> <p>Les présent appareil est conforme aux CNR d'Innovation, des Sciences, et du développement économique applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivants:</p> <ol style="list-style-type: none"><li>1. L'appareil ne doit pas produire brouillage, et</li><li>2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.</li></ol> <p><b>Radiation Exposure Statement</b></p> <p>This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20 cm between the radiator and your body.</p> <p><b>Déclaration d'exposition aux radiations</b></p> <p>Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20 cm entre le radiateur et votre corps.</p>
<b>United States (FCC)</b>	<p>This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:</p> <ol style="list-style-type: none"><li>1. This device may not cause harmful interference.</li><li>2. This device must accept any interference received, including interference that may cause undesired operation.</li></ol> <p>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. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user manual, may cause harmful interference to radio communications.</p> <p>Changes or modifications not expressly approved by Onity Inc. could void the user's authority to operate the equipment. To comply with FCC RF exposure compliance requirements, the device must be installed to provide a separation distance of at least 20 cm from all persons.</p> <p><b>Radiation Exposure Statement:</b></p> <p>This product complies with the U.S. RF exposure limit set forth for an uncontrolled environment and is safe for intended operation as described in this manual. Further RF exposure reduction can be achieved if the product can be kept as far as possible from the user's body, or the device is set to lower output power if such function is available. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.</p>
<b>European Union (CE)</b>	<p>This Class B digital apparatus conforms to the requirements of the following EU directives:</p> <ol style="list-style-type: none"><li>1. RED, 2.4GHz, Bluetooth Power class 1 (12dBm max)</li></ol>

### 2.1 Environmental Compliance

This product adheres to environmental regulations established by the current European Union (EU) RoHS and WEEE directives.

## 2.2 Label Requirement

The product label must contain the following information:

FCC ID: R32-10105533G0

IC: 5058A-10105533G0

## 2.3 General (Product specification/s)

Model No	RPTRW
Dimensions (L x W x H)	3.12" (79.14 mm) x 3.12" (79.14 mm) x 1.71" (43.4 mm)
Finish	White
Power	1.5 VDC (2x AA alkaline industrial batteries) & <b>Optional 5V/1A power adapter available for North America and Europe</b>
Connectivity	Bluetooth®
Battery Life	2 years of normal life

## 2.4 Environmental

Operating Temperature	-30°C to 75°C (-22°F to 167°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	60°C (140°F) @95% RH

## 2.5 Frequency

BLE	2.4GHz
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## 2.6 Regulatory

Compliance	RoHS, REACH, BLE 5.1
Certifications	FCC, ISED, CE

## 2.7 IP Rating

IP55
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## 2.8 Installations

Indoor