



Device Name and Model: **Tag and Repeater Series 200**

Purpose: The GPS Repeater device has a high gain antenna and is installed on building rooftops. The high gain antenna allows tags across a large region to join the network. The GPS Tag device has a chip antenna and is installed on equipment for logistics and tracking of those assets.

FCC Information

- FCC Tag ID: 2BKI8-201A
- FCC Repeater ID: 2BKI8-202A

Safety Instructions

- **Keep out of water. Max Voltage: 4VDC Max Current: 20mA**
- **Handling:**
 - Use only the UMS provided connectors and/or devices approved for use with this device.
 - Do not subject the device to severe vibration or high impact conditions.
 - Mount devices to a rigid hard surface
 - Ensure that all screws are appropriately placed.
 - Keep equipment away from extremely hot or cold temperatures to ensure that it is used within the specified operating range.

Installation

- **What's in the Box:**
 1. **Tag Series 200**
 2. **Repeater Series 200**
- **Basic Setup:**
 1. Place the **Repeater** in the desired location (e.g., on a rooftop within the restricted area).
 2. Place the **Tag** in the desired location (e.g., on a cargo, pallet, object to be tracked).

Operation

- **Powering On:**
 - The device is powered on when delivered.
- **Powering Off:**



- The device does not power off.
- **Testing the Device:**
 - Look at the top face of the **Tag** and notice the color of the LED blink.
 - RED: Device powered on and in broadcast mode, device not connected to mesh network. See Troubleshooting.
 - GREEN: Device powered on and connected to mesh network.

Troubleshooting

- If the device is blinking RED:
 - Ensure the LED is blinking.
 - Ensure appropriate mesh network ID is set
 - Bring the **Tag** closer to a **Repeater** or second **Tag** that is already blinking GREEN.
 - If the Tag is less than 10 feet from secondary **Tag** or **Repeater** and on the same network ID contact support.
- If the **Tag** is not blinking at all:
 - Contact support

Support

- **Contact Information:** support@unitedmesh.com



FCC Compliance Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation.

Section 15.105: Self-Declaration of Conformity to FCC Part 15, Subpart B for a Class B Digital Device

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 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.*

Section 15.21: Unauthorized Modifications Warning

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

RF Exposure Warning Statement

In order to comply with FCC RF exposure requirements, this device must be installed such that a minimum separation distance of 20cm is maintained between the radiator (antenna) and all people during normal operation.