Mini IP68 Bluetooth Network LED Receivers pair with the Mini Bluetooth Network LED Controller and drive the LEDs. These Bluetooth Network LED Receivers work with constant voltage LEDs from 6-24VDC.

There are four models to cover just about any kind of LED application: dim-mini-BTnetwork-receiver for single color applications, wa-mini-BTnetwork-receiver for white adjustable, rgb-mini-BTnetwork-receiver for RGB and rgbw-mini-BTnetwork-receiver for RGBW.

### Installation

1. **Power Supply**
   Mini IP68 Bluetooth Network LED Receivers work from 6-24VDC. The red power input cable should be connected to power supply positive and black to negative. The receiver output voltage is same as the power supply voltage. Always make sure the power supply voltage is same as the rated LED voltage.

2. **Status Indicator**
   The status indicator displays the current status of the receiver.
   - **Blue**: normal operation.
   - **Short single white flash**: command signal received.
   - **White flash 3 times**: Pairing success.
   - **Red flashing**: overload protection active.
   - **Yellow flashing**: thermal protection active.

3. **LED Output**
   These receivers support constant voltage LED products and control the load using a PWM output. The output cable color indicates the function, described below.

   - **A) Single color**: The red cable connects to LED positive and black to negative.
   - **B) White Adjustable**: The black cables connect to LED load positive, the yellow cable connects to warm white negative and the white cable connects to cool white negative.

   - **C) RGB**: The black cable connects to LED load positive. Red, green and blue cables connect to the respective LED color.
   - **D) RGBW**: The black cable connects to LED load positive. The white, red, green and blue cables connect to the respective LED color.

### Pairing

4. **Pairing**
   Mini Bluetooth Network Receivers must be paired to a controller to operate. To pair Network LED Receivers to a mini-BTNetwork controller, perform the following steps with the mini-BTNetwork powered on.
   1. Power-off the receiver for at least 5 seconds and power it back up.
   2. Press the on/off key and down arrow on the mini-BTNetwork remote within 5 seconds of the receiver powering on.
   3. The indicator on the receiver will flash 3 times to confirm the pairing.
5. Waterproofing
Mini IP68 Bluetooth Network LED Receivers are IP68 waterproof. When installing at wet environment, the cable connections must also be waterproofed. Waterproofing glue and heat-shrink are recommended, but waterproof connectors may also be used. Wireless signals are attenuated by water, so wireless range may be reduced if the receivers are installed underwater. Be sure to test the wireless range before permanently installing the receiver in water or very wet locations.

6. Protection
Mini IP68 Bluetooth Network LED Receivers have full protection circuitry for short circuit, output overload, reversed power polarity and overheating. The indicator will flash red for overload or short circuit protection and flash yellow for thermal protection. The receiver will automatically recover from protection when conditions return to normal.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>dim-mini</th>
<th>wa-mini</th>
<th>rgb-mini</th>
<th>rgbw-mini</th>
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<tbody>
<tr>
<td>Function</td>
<td>Single Color</td>
<td>White Adjustable</td>
<td>RGB</td>
<td>RGBW</td>
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<tr>
<td>Working voltage</td>
<td>6-24VDC</td>
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<tr>
<td>Rated output current</td>
<td>15A</td>
<td>2x7A</td>
<td>3x5A</td>
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<td>Wireless receiver sensitivity</td>
<td>&lt;-85dBm</td>
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<tr>
<td>Overload protection</td>
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