

Wireless PWM Dimmer Sender & Receiver



BL-PC-DIM-2001



BL-PC-DIM-2002



Wireless LED power repeater transfer 300Hz~20KHz PWM pulse signal by wireless transmission to expand power. It is consisted of sending end and receiving end. A sending end can configure unlimited receiving ends. As long as the receiving end and sending end are set as same frequency point, both sides can communicate normally. Realise the signal synchronization on unlimited receivers within effective distance.

Use relay settings if you need to further increase the communication distance.

1. Technical Specs

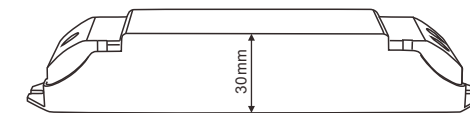
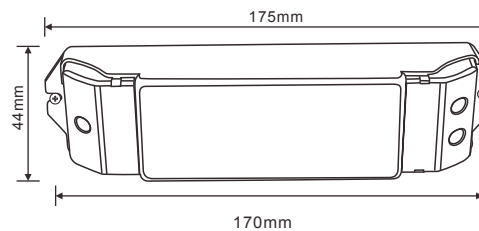
BL-PC-DIM-2001 Sender

- Input voltage: DC5V~DC24V (minimum 30watts power supply)
- Input signal: PWM x4CH
- Working frequency channel: 2.4GHz ISM 64 channels
- Maximum transmitted power: 20dBm
- Communication distance: 300m (subject to change in different conditions, such as the weather \ environment etc.)
- working temperature: -20°C ~ 55°C
- Dimension: L175×W44×H30mm
- Package Size: L178×W48×H33mm
- Weight (G.W): 110g

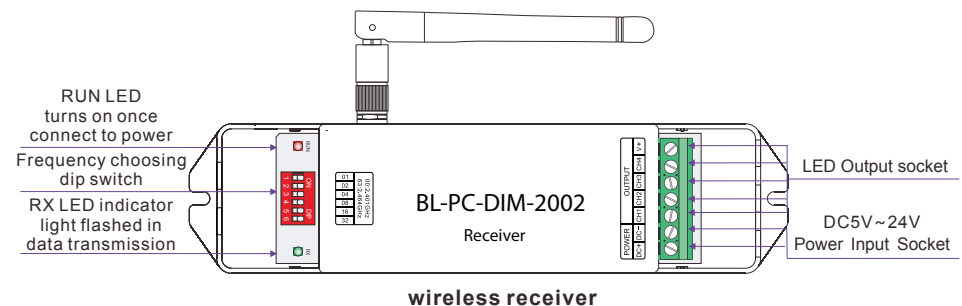
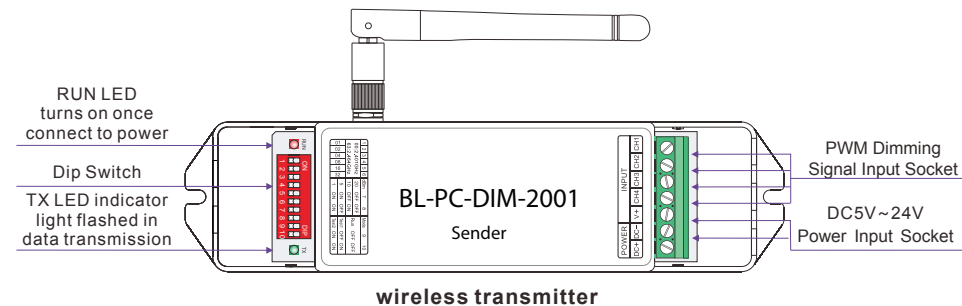
BL-PC-DIM-2002 Receiver

- Input voltage: DC5V~DC24V
- Max current load: 5A×4CH Max 20A
- Max output power: 100W/240W/480W(5V/12V/24V)
- Working frequency channel: 2.4GHz ISM 64 channels
- Communication distance: 300m (Exist differences in different conditions, such as the weather \ environment etc.)
- Receiver sensitivity: -96dBm
- working temperature: -20°C ~ 55°C
- Dimension: L175×W44×H30mm
- Package Size: L178×W48×H33mm
- Weight (G.W): 110g

2. Product dimension



3. Conjunction Diagram



4 Dip Switch Operation



SENDER UNIT Dip Switches



RECEIVER UNIT Dip Switches

The 10th Dip Switch: OFF means conventional transmitting modes, ON means self testing transmitting modes

The 9th Dip Switch: When the 10th Dip switch is on, transmit the data of full color gradual in the 9th ON and transmit the data of full color jump in the 9th OFF.

The 7-8 Dip Switch: 4 levels transmission power to choose(see the below form)

	dBm	7	8
	20	OFF	OFF
	10	OFF	ON
	5	ON	OFF
	1	ON	ON

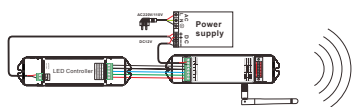
The 1-6 Dip switch: 64 frequency to choose(2401~2464MHz), the interval of frequency is 1MHZ. (see the below form)

DIP	1	2	3	4	5	6
Value	001	002	004	008	016	032
Remark	Frequency value = the total place value amount of 1-6 dip switch+2400, put the dip switch to ON position, user can get its place value, put dip switch to OFF position, its place value is 0.					

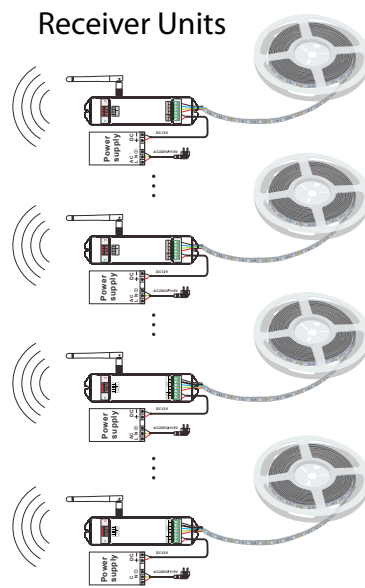


Example: Above figure, the repeater frequency is 2437M, set the 1st, 3rd, 6th dip switch to "1", the rest to "0", the Value summation from 1-6 is 1+4+32=37, so the repeater frequency is 37+2400=2437M.

5. Wiring Diagram

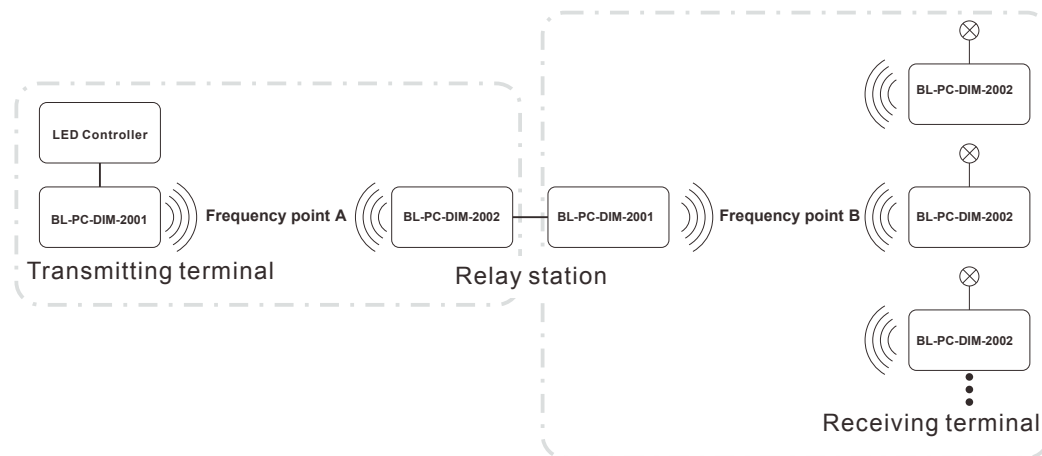


Sender Unit



Receiver Units

Can extend the communication distance by relay point way,



4. Attention:

- 1) The product shall be installed and serviced by a qualified electrician.
- 2) This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- 3) Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 4) Please check if the output voltage of any LED power supplies used comply with the working voltage of the product.
- 5) Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 6) Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 7) If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.