

# 2.4G Wireless Power Repeater



Wireless LED power repeater transfer 300Hz~20KHz PWM signal to expand power. It is consisted of emitter LT-3050 and receiver LT-3053-5A/LT-3053-5A. One emitter can match unlimited receiver if using the same frequency, supporting sync control on multiple receivers within effective distance. A very good solution for the LED project needs sync control wirelessly. Such as the wireless remote control between buildings, both sides of the roads, river banks and bridges, etc. Adopt 2.4GHz global open ISM frequency channel, 64 groups wireless network can be chosen independently to avoid interference.

Use relay settings or connect to booster antenna to further the communication distance.

## 1. Technical Specs:

### LT-3050 wireless transmitters

- Input voltage: DC5V~DC24V
- Input signal: PWM x3CH
- Working frequency channel: 2.4GHz ISM 64 channels
- Maximum transmitted power: 20dBm
- Communication distance: 350m (weather/environment affects the actual values)

- working temperature: -20°C ~ 55°C
- Dimension: L175×W44×H30mm
- Package Size: L178×W48×H33mm
- Weight (G.W): 135g

### LT-3053-5A wireless transmitters

- Input voltage: DC5V~DC24V
- Max current load: 5A×3CH Max 15A
- Max output power: 75W/180W/360W(5V/12V/24V)
- Working frequency: 2.4GHz ISM 64 channels
- Communication distance: 350m (weather/environment affects the actual values)

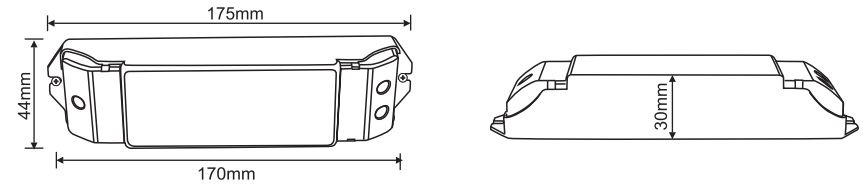
- Receiver sensitivity: -96dBm
- working temperature: -20°C ~ 55°C
- Dimension: L175×W44×H30mm
- Package Size: L178×W48×H33mm
- Weight (G.W): 140g

## LT-3054-5A wireless transmitters

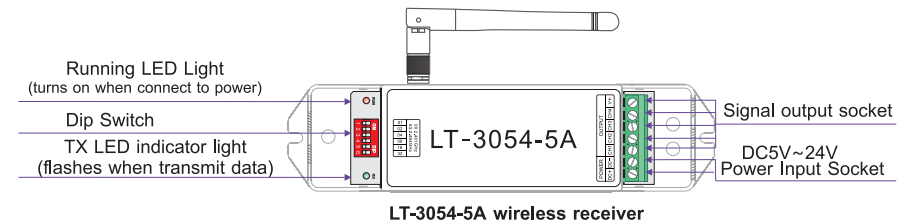
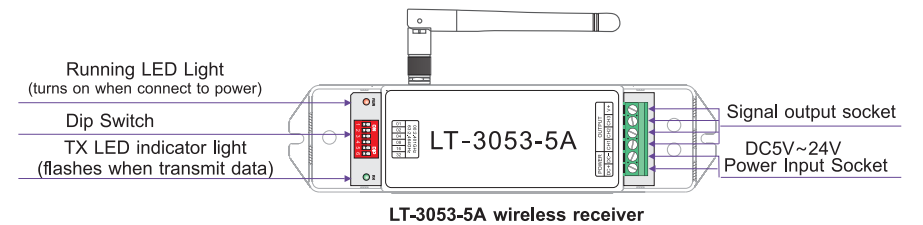
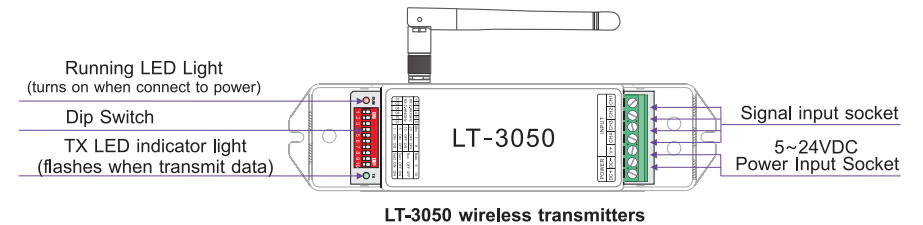
- Input voltage: DC5V~DC24V
- Max current load: 5A×4CH Max 20A
- Max output power: 100W/240W/480W(5V/12V/24V)
- Working frequency: 2.4GHz ISM 64 channels
- Communication distance: 350m (weather/environment affects the actual values)

- Receiver sensitivity: -96dBm
- working temperature: -20°C ~ 55°C
- Dimension: L175×W44×H30mm
- Package Size: L178×W48×H33mm
- Weight (G.W): 140g

## 2. Product dimension



## 3. Conjunction Diagram

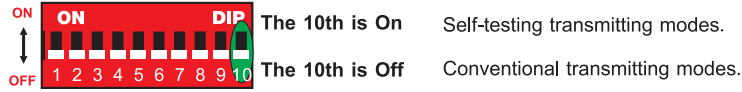


### 4. Dip Switch Operation:

LT-3053-5A/LT-3054-5A is used with LT-3050, so its frequency must be same.



#### 4.1 The 10th Dip Switch.



#### 4.2 The 9th Dip Switch. The 9th only works when the 10th is on.

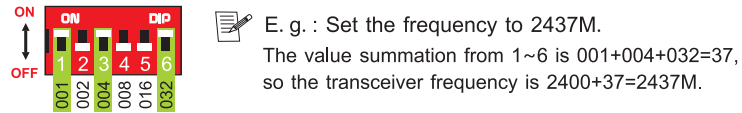
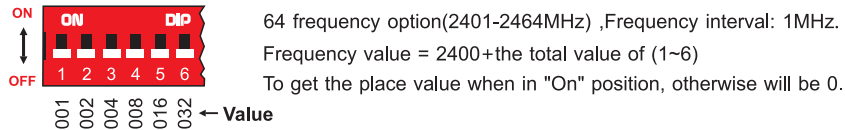


#### 4.3 The 7-8th Dip Switch.

4 levels transmission power to choose (see the form)

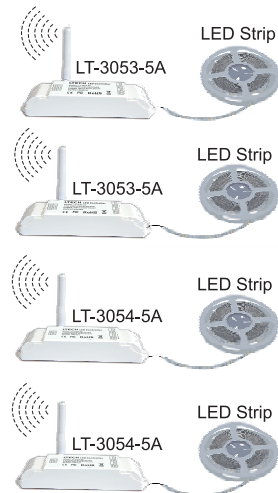
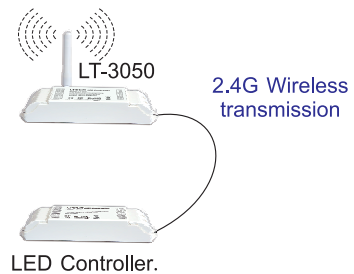
dBm	7	8	Diagram
20	OFF	OFF	
10	OFF	ON	
5	ON	OFF	
1	ON	ON	

#### 4.4 The 1st-6th Dip Switch.

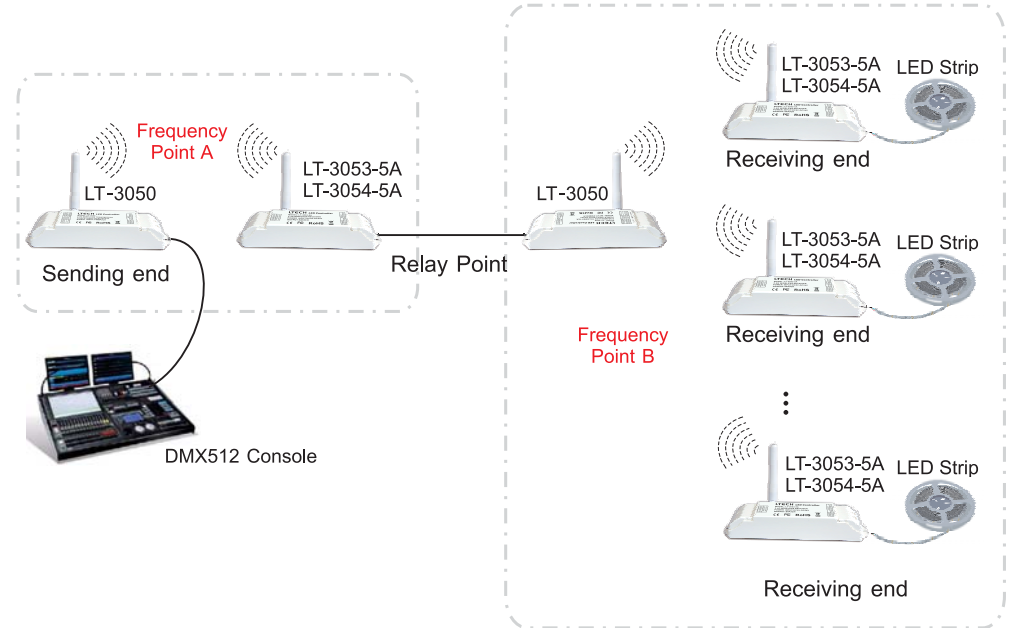


### 5. Wiring Diagram:

#### 5.1 One sending end, multiple receiving ends:



#### 5.2 Relay way to extend the communication distance:



#### 5.3 Extend the communication distance by boost antenna:

