



General

Product Type	Wireless
Wire Strip Length	5mm
Wire Type	2.5mm2

Electronics

Input Domain	DC
Input Voltage	5 ~ 24V DC
Power Supply	N/A
LED Outputs	3

Control

Output Signal	2.4 GHz
Control	PWM
Driver Configuration	Dip Switches
Remote Distance	350m
Number of Channels	3

Environmental

Operating Temperature	-20 ~ +55 °C
Ingress Protection	IP20

CE FCC IP20 5 year warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

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

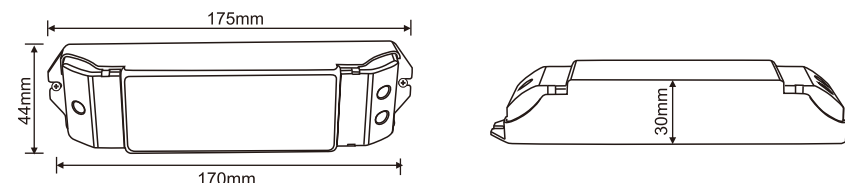
LT-3053-5A wireless transmitters

- 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

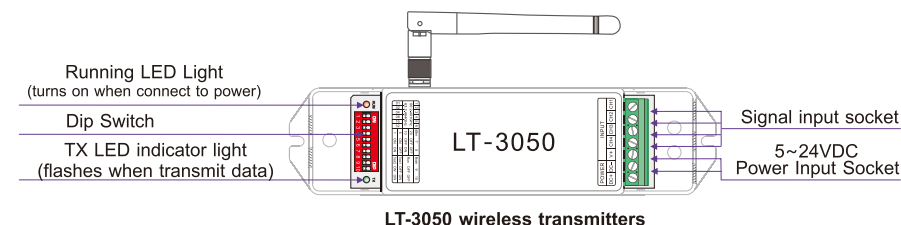
LT-3054-5A wireless transmitters

- 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

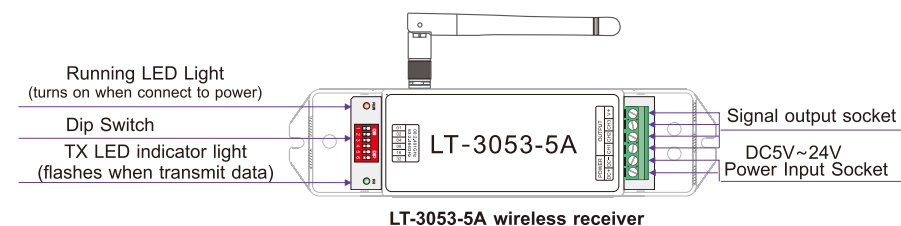
2. Product dimension



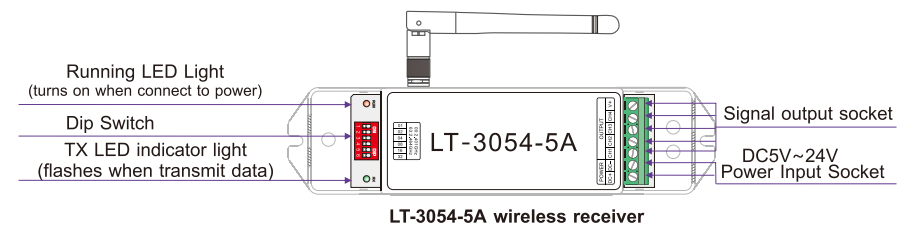
3. Conjunction Diagram



LT-3050 wireless transmitters



LT-3053-5A wireless receiver



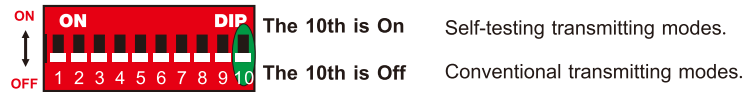
LT-3054-5A wireless receiver

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.

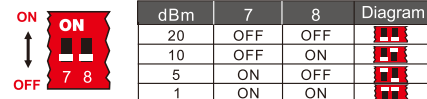


4.2 The 9th Dip Switch. The 9th only works when the 10th is on.

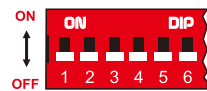


4.3 The 7-8th Dip Switch.

4 levels transmission power
to choose (see the form)

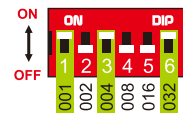


4.4 The 1st-6th Dip Switch.



64 frequency option(2401-2464MHz) ,Frequency interval: 1MHz.
Frequency value = 2400+the total value of (1~6)
To get the place value when in "On" position, otherwise will be 0.

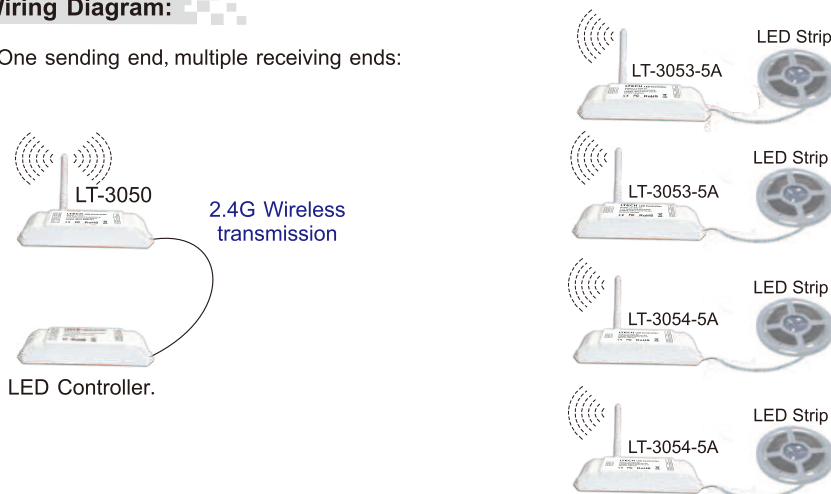
001
002
004
008
016
032 ↑ Value



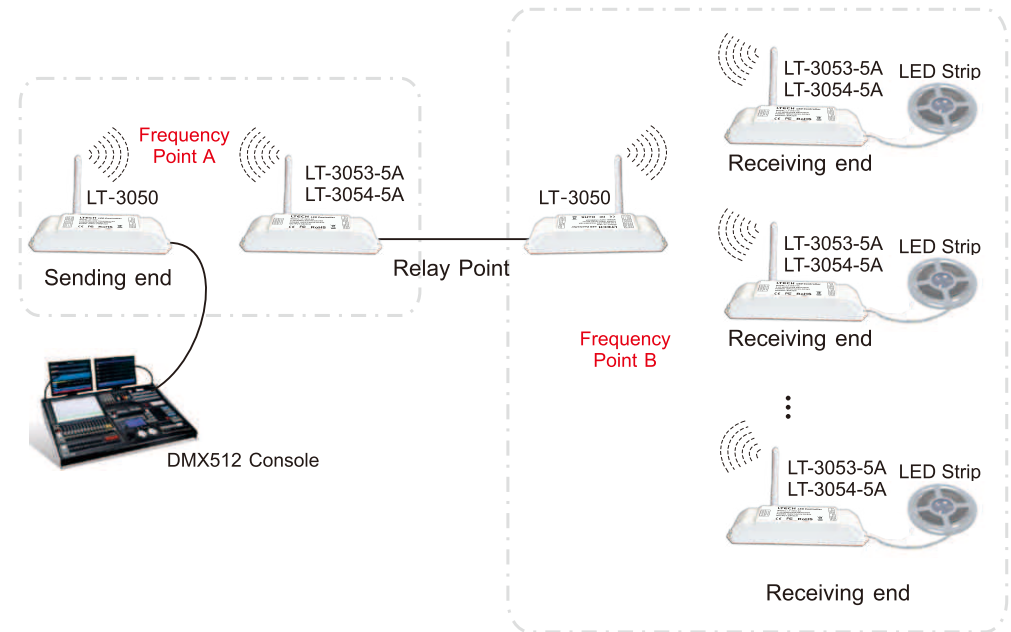
 E. g. : Set the frequency to 2437M.
The value summation from 1~6 is $001+004+032=37$,
so the transceiver frequency is $2400+37=2437\text{M}$.

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:

