

# SS-LT870

## Wireless DMX512 Transceiver



IFXs SS-LT870 wireless DMX512 transceiver transfers the standard DMX512 protocol data wirelessly. One emitter matches one or multiple receivers when the same signal ID is being used (Supports point-to-point, or point to multi-point communication),

The SS-LT870 is used for data transmission between a DMX lighting controller and DMX integrated LED lighting fixtures, or between lights and lights, to replace a wired transmission. The data transmission will be true and reliable during the transmission process.

SS-LT870 uses an automatic frequency selection function. It will automatically choose the clearest channel to send DMX512 data when working as an emitter, and can search and match the correct channel to receive DMX 512 data when working as a receiver.

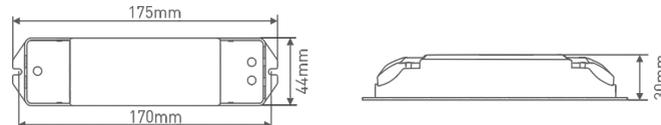
Use the relay settings or connect to a booster antenna to further the communication distance.

### 1. Technical Specs:

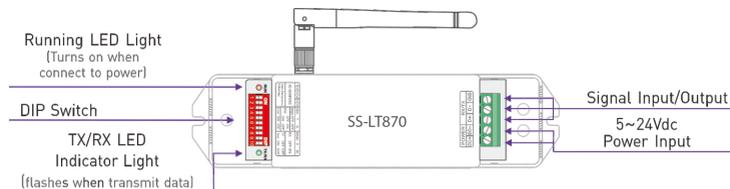
#### LT-870S Wireless DMX512 Transceiver

Input/Output Signal:	DMX512	Communication Distance:	350m (weather/environment affects the actual values)
Input Voltage:	5~24Vdc	Working Temperature:	-30°C~55°C
Working Frequency:	2.4GHz	Dimensions:	L175xW44xH30(mm)
Max. Transmitted Power:	20dBm	Package Size:	L178xW56xH33(mm)
Receiver Sensitivity:	-96dBm	Weight (G.W):	125g

### 2. Product Size:



### 3. Configuration Diagram:

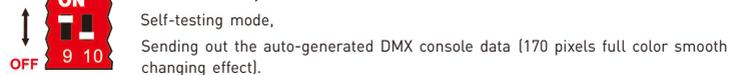


### 4. Dip Switch Operation:

#### 4.1 Dip Switch 9-10: Mode



#### 4.1 Dip Switch 9-10: Mode



#### 4.2 Dip Switch 7-8: Transmission Power

dBm	7	8	Diagram
High	OFF	OFF	
	OFF	ON	
Middle	ON	OFF	
	ON	ON	

#### 4.3 Dip Switch 1-6: Signal ID



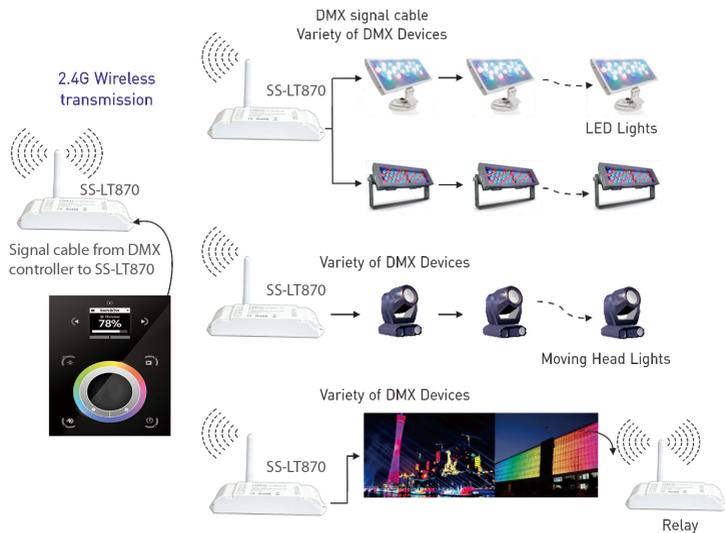
Communication between emitter and receiver will work when the same ID is used



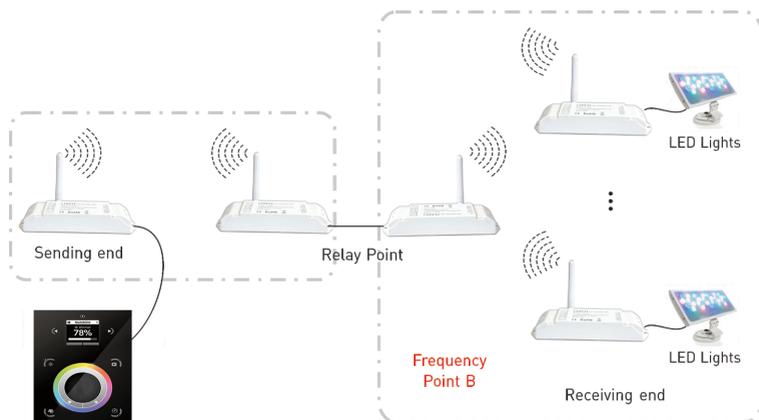
\* 64 ID combinations in total.

## 5. Wiring Diagram:

### 5.1 One emitting SS-LT870, multiple receiving SS-LT870:



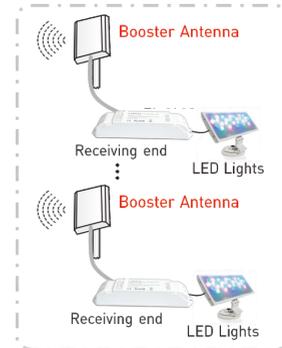
### 5.2 SS-LT870 used to relay DMX signal over a large distance.



### 5.3 Extend the communication distance using a booster antenna.



**【Attn】**  
Please install the booster antenna in high open place. The communication distance can extend up to 1000-2000 meters



## 6. Attention:

- 6.1 The product must be installed and serviced by the qualified technician.
- 6.2 This product is non-waterproof. Please avoid the direct sunlight and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- 6.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- 6.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- 6.5 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.
- 6.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- 6.7 If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

## 7. Warranty Agreement:

- 7.1 We provide lifelong technical assistance with this product:
  - A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
  - For faults beyond the 5-year warranty we reserve the right to charge for time and parts.
- 7.2 Warranty exclusions below:
  - Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
  - The product appears to have excessive physical damage.
  - Damage due to natural disasters and force majeure.
  - Warranty label, fragile label and unique barcode label have been damaged.
  - The product has been replaced by a brand new product.
- 7.3 Repair or replacement as provided under this warranty is the exclusive remedy to the customer. illuminfx shall not be liable for any incidental or consequential damages for breach of any section in this warranty.
- 7.4 Any amendment or adjustment to this warranty must be approved in writing by illuminfx only.

★ This manual only applies to this model. illuminfx reserves the right to make changes without prior notice.