

## 1. Product description

- Wireless dimmable and CCT tunable
- No need install control wire and other controllers
- Two channels output, common anode
- External constant current driver
- Compatible with TIGI Remote, Scene Switch, Smart Life APP ...
- Surge protection voltage 2KV
- Lighting Project Solution
- No-load protection
- Short-circuit protection
- 3 years warranty
- Flicker free



T5151B

## 2. Functions

- Wireless CCT tunable by RF-2.4G Controllers
- Bluetooth Wireless CCT tunable by APP
- Remote Groups control: 100 groups individually
- Can set the functions as CCT tunable by APP
- Can set the function as dynamic scenes by APP
- Optional features: Dimming/CCT by Upper Computer
- Can set the rated current by Upper Computer

The functions of driver are realized by TIGI controllers, please refer to TIGI controllers datasheet for more details.

## 3. Application

Residential lighting, office lighting, commercial lighting



For dimmable and tunable CCT application

## 4. Technical Data

### For Driver

Model No.	T5151B
Rated Input Voltage	100-240V
Max Input Current	0.16A
Mains Frequency	50/60Hz
Output Voltage	12-42V DC
Output Current Range	150-350mA
Dimming Range	1%-1000%
Efficiency	81%
Power Factor@full load	0.5
Life Span	20'000 hrs
Mains switching cycles	> 100'000
Ambient Temperature Ta	-10°C ... +45°C
Storage Temperature Ts	-20°C ... +80°C
Dimension	115x41x28mm

### For Bluetooth 5.0

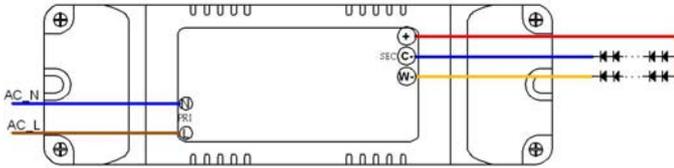
Controllable Distance	30Meters without Obstacle
Protocol	TIGI MESH BLE 5.0
Frequency Range	2402Mhz....2482Mhz
Modulation Type	GFSK
Antenna Type	Integral antenna
Antenna Quantity	1
Antenna Gain	0dBi
Operating Temperature	-20°C...+85°C

## 5. Standard

LVD	EN61347-2-13
RED	EN300 440
RED	EN301489-1/ EN301489-3

## 6. Installation and Wiring

### 6.1 Wiring Diagram



- Two channels output, common anode, C- for cool white LED, W-for warm white LED
- Suggestion 1: make all connection as short as possible to ensure good EMC behavior.
- Suggestion 2: use 0.75-1.0mm<sup>2</sup> wire, strip length 3-5mm

### 6.2 Installation

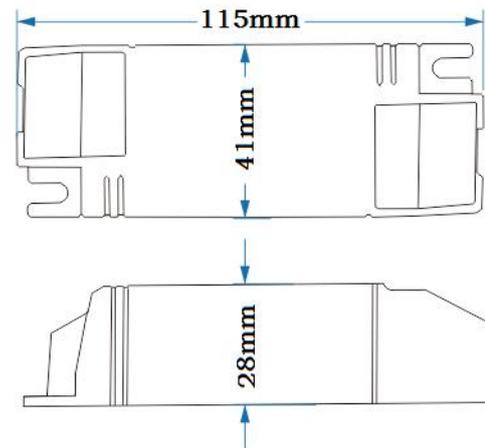
- Heat dissipation must be considered before installation.
- Metal shielding is not allowed without putting the antenna out.
- Keep the drivers as far as possible away from electromagnetic interference in the surrounding environment to ensure RF controlling behavior.
- Make sure to keep mains off while installation.

## 9. All models and specifications

T5151B is the general series number, it includes the following models:

Model Number	Input Voltage/V	Max Input Current/mA	Input Power/W	Output Voltage/V	Output Current/mA	Max Output Power/W	Max Output Voltage/V
T5151B -0150	220	33	7.2	36	150	5.4	50
T5151B -0200	220	44	9.6	36	200	7.2	50
T5151B -0250	220	55	12	36	250	9	50
T5151B -0300	220	65	14.4	36	300	10.8	50
T5151B -0350	220	76	16.8	36	350	12.6	50

## 7. Dimension



Unit: mm

## 8. Packing data

Weight per PCS	70g
Quantity/Carton	100PCS
Weight per Carton	7KG
Size of Carton	37*24*27CM

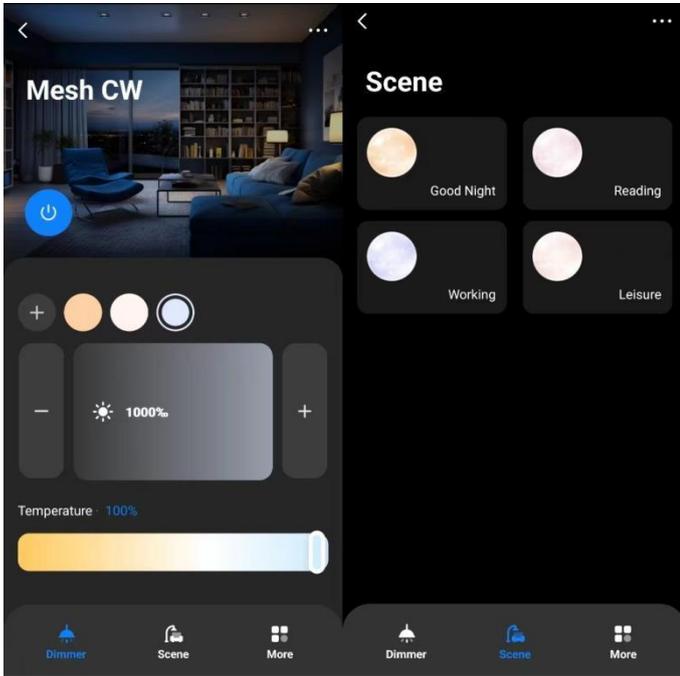
The packing data is for reference, the exact data subjects to the packing requirement of customers.

## 10. System Structure

### 10.1 CCT APP Panel

#### APP Control Functions

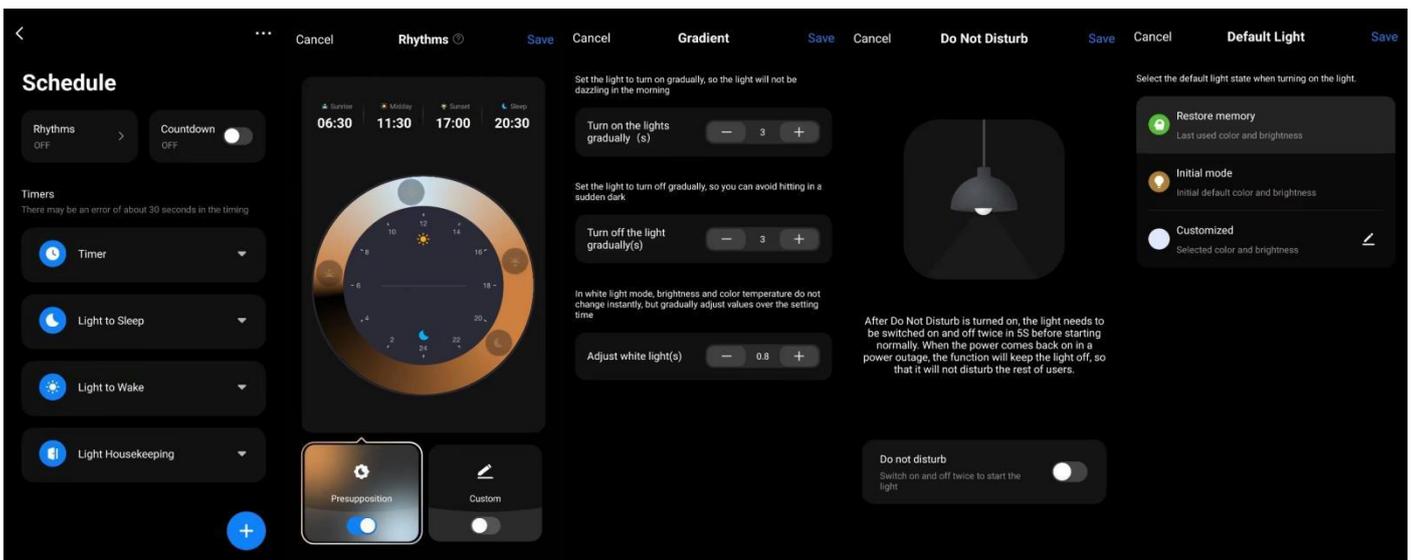
##### CCT/ Scene



#### Setting More Functions

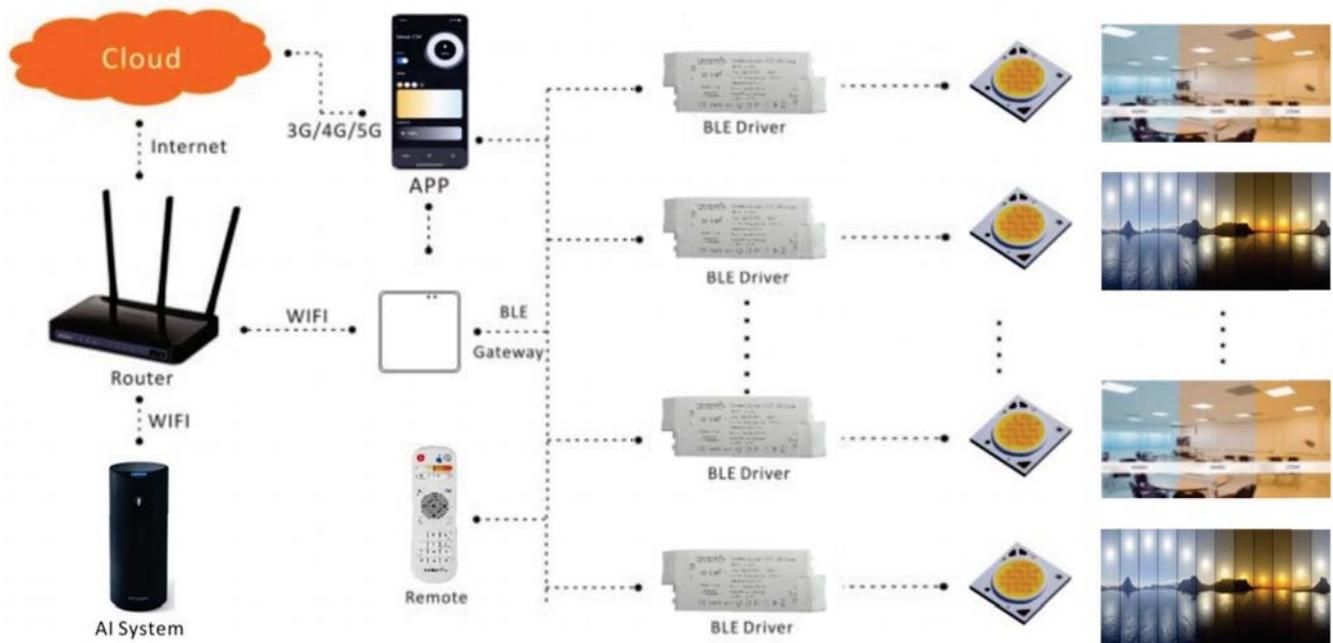
Schedule: Biological Rhythms/ Local Timer/ Sleep/ Wakeup/ Random/ Countdown

Gradient Time/ Don't Disturb/ Default Light



## 10.2 TIGI MESH BLE 5.0 CCT Control System

### TIGI Mesh V5.0 Bluetooth CCT Control System



#### Note

- TIGI reserves the right to make changes or corrections to the products at any time without notice. Customers should verify the datasheets are current and complete before placing order.
- The improvement of our products is endless, we will be always trying our best to provide better products for our customers.
- All the contents above are only for reference, The actual parameters are based on the approval sheet of our company.