

# MT-100-250-D2B1 MT-300-450-D2B1 MT-500-650-D2B1

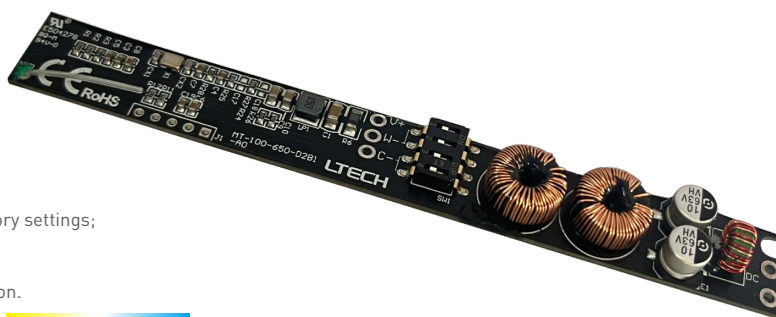
MT-100-250-D2B1  
MT-300-450-D2B1  
MT-500-650-D2B1

Bluetooth 5.0 SIG Mesh

## Bluetooth LED Driver

Especially for magnetic track & linear lamp

- Bluetooth 5.0 SIG Mesh with high networking capability is reliable and stable.
- Support direct control on iOS or Android devices through Bluetooth connection.
- Support online upgrade, which can continuously power off and restore factory settings;
- Setting the soft start time and lighting status is supported.
- Work with Super Panel to achieve voice control, cloud scenes and automation.
- No input polarity.
- Multiple output current settings.
- DC to DC constant current output.
- Suitable for STUCCHI standard housings.
- Magnetic installation is quiet without high-frequency sound.
- Smooth dimming curves without flicker.
- Short circuit, overload, no-load and anti-reverse protection.
- 5 year warranty.



DIM/CT

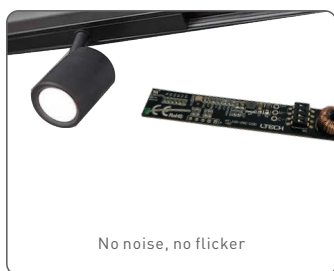


Flicker-free

IEEE 1789



RoHS



## Technical Specs

| MODEL       |                                | MT-100-250-D2B1                                                                        | MT-300-450-D2B1       | MT-500-650-D2B1       |
|-------------|--------------------------------|----------------------------------------------------------------------------------------|-----------------------|-----------------------|
| OUTPUT      | Output Voltage                 | 9-45Vdc                                                                                | 9-42Vdc               | 9-39Vdc               |
|             | Output Current Range           | 100-250mA                                                                              | 300-450mA             | 500-650mA             |
|             | Output Power                   | 0.9W-11.25W                                                                            | 2.7W-18.9W            | 4.5W-25.35W           |
|             | Current Accuracy               | +15mA/-25mA                                                                            | +15mA/-25mA           | +5%                   |
|             | Dimming Range                  | 0-100% , down to 0.1%                                                                  | 0-100% , down to 0.1% | 0-100% , down to 0.1% |
|             | Channel                        | 2                                                                                      | 2                     | 2                     |
| INPUT       | Dimming Interface              | Bluetooth 5.0 SIG Mesh                                                                 |                       |                       |
|             | Input Voltage                  | 48Vdc±5% (No polarity)                                                                 |                       |                       |
|             | Input Current                  | <0.28A                                                                                 | <0.57A                | <0.57A                |
|             | Efficiency(Typ)                | ≥87%                                                                                   | ≥87%                  | ≥87%                  |
| ENVIRONMENT | Working Temperature            | ta: -30~55°C tc: 87°C                                                                  |                       |                       |
|             | Working Humidity               | 20~95%RH, non-condensing                                                               |                       |                       |
|             | Storage Temperature            | -40~80°C 10~95%RH                                                                      |                       |                       |
| PROTECTION  | Overload Protection            | The load voltage is out of range,the current drops until the power is turned on again. |                       |                       |
|             | Short Circuit Protection       | Close output and automatically recover once the fault is removed.                      |                       |                       |
|             | No-load Protection             | The product does not be damaged.                                                       |                       |                       |
|             | Hot Plug                       | Support electric plug plug.                                                            |                       |                       |
|             | Input Anti -reverse Protection | No input polarity , able to output normally.                                           |                       |                       |

## Output Current Selection

\* Please select the current through the DIP switch on the circuit board when the power is off.



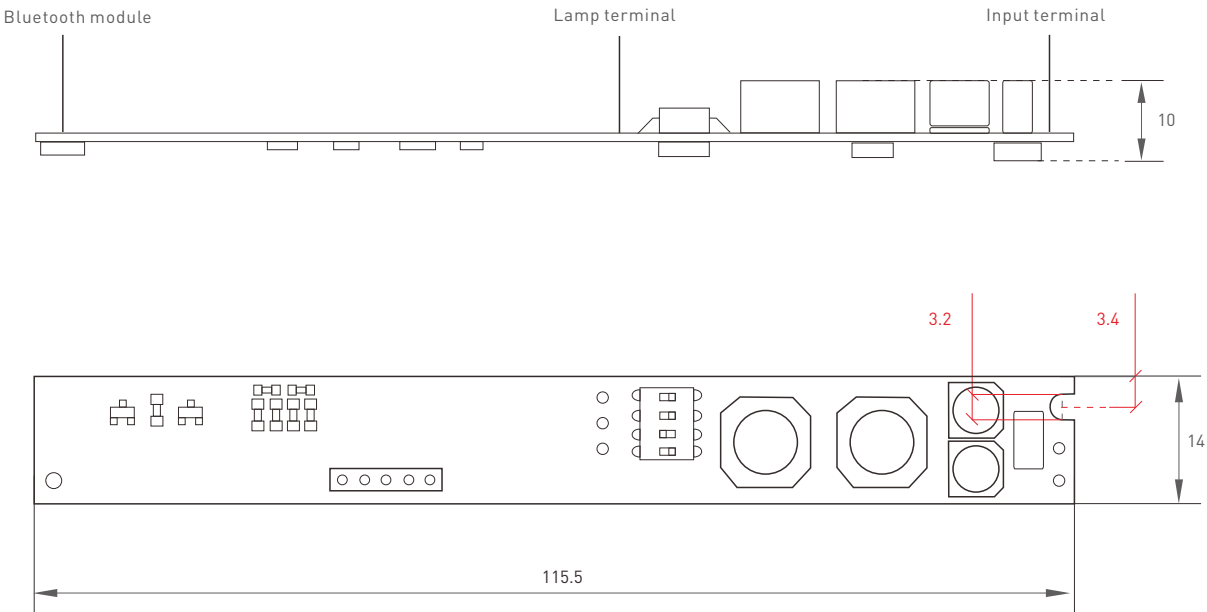
| DIP Switch      |                |           | T           | T T T   | TTTT         | <div> <div>ON OFF</div> <div> <div>T</div> <div> </div> </div> </div> |
|-----------------|----------------|-----------|-------------|---------|--------------|-----------------------------------------------------------------------|
| MT-100-250-D2B1 | Output Current | 100mA     | 150mA       | 200mA   | 250mA        |                                                                       |
|                 | Output Voltage | 9-45Vdc   | 9-45Vdc     | 9-45Vdc | 9-45Vdc      |                                                                       |
|                 | Output Power   | 0.9W-4.5W | 1.35W-6.75W | 1.8W-9W | 2.25W-11.25W |                                                                       |

| DIP Switch      |                |            | T           | T T T      | TTTT        | <div> <div>ON OFF</div> <div> <div>T</div> <div> </div> </div> </div> |
|-----------------|----------------|------------|-------------|------------|-------------|-----------------------------------------------------------------------|
| MT-300-450-D2B1 | Output Current | 300mA      | 350mA       | 400mA      | 450mA       |                                                                       |
|                 | Output Voltage | 9-42Vdc    | 9-42Vdc     | 9-42Vdc    | 9-42Vdc     |                                                                       |
|                 | Output Power   | 2.7W-12.6W | 3.15W-14.7W | 3.6W-16.8W | 4.05W-18.9W |                                                                       |

| DIP Switch      |                |            | T            | T T T      | TTTT         | <div> <div>ON OFF</div> <div> <div>T</div> <div> </div> </div> </div> |
|-----------------|----------------|------------|--------------|------------|--------------|-----------------------------------------------------------------------|
| MT-500-650-D2B1 | Output Current | 500mA      | 550mA        | 600mA      | 650mA        |                                                                       |
|                 | Output Voltage | 9-39Vdc    | 9-39Vdc      | 9-39Vdc    | 9-39Vdc      |                                                                       |
|                 | Output Power   | 4.5W-19.5W | 4.95W-21.45W | 5.4W-23.4W | 5.85W-25.35W |                                                                       |

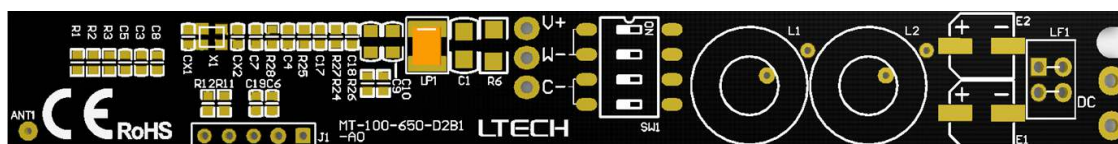
## Dimensions

Unit:mm

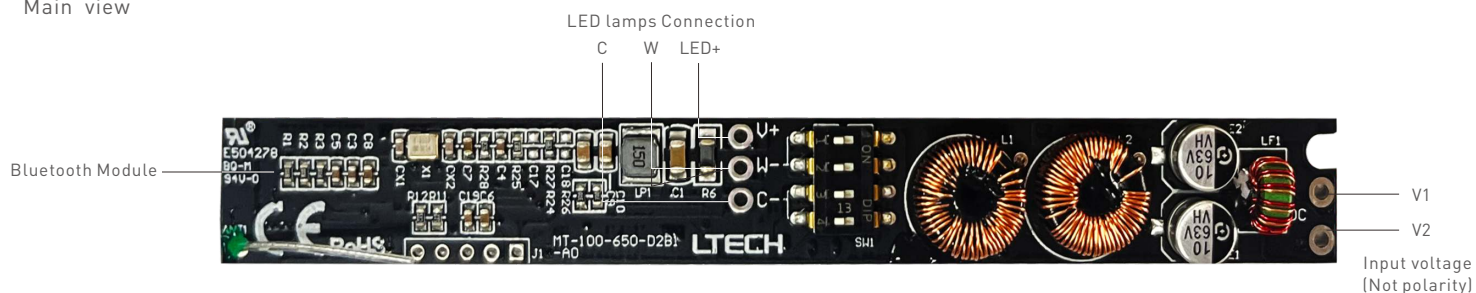


## Terminal description

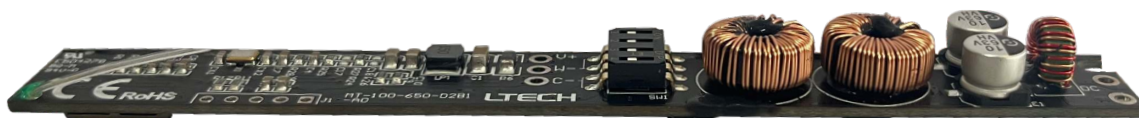
PCB board



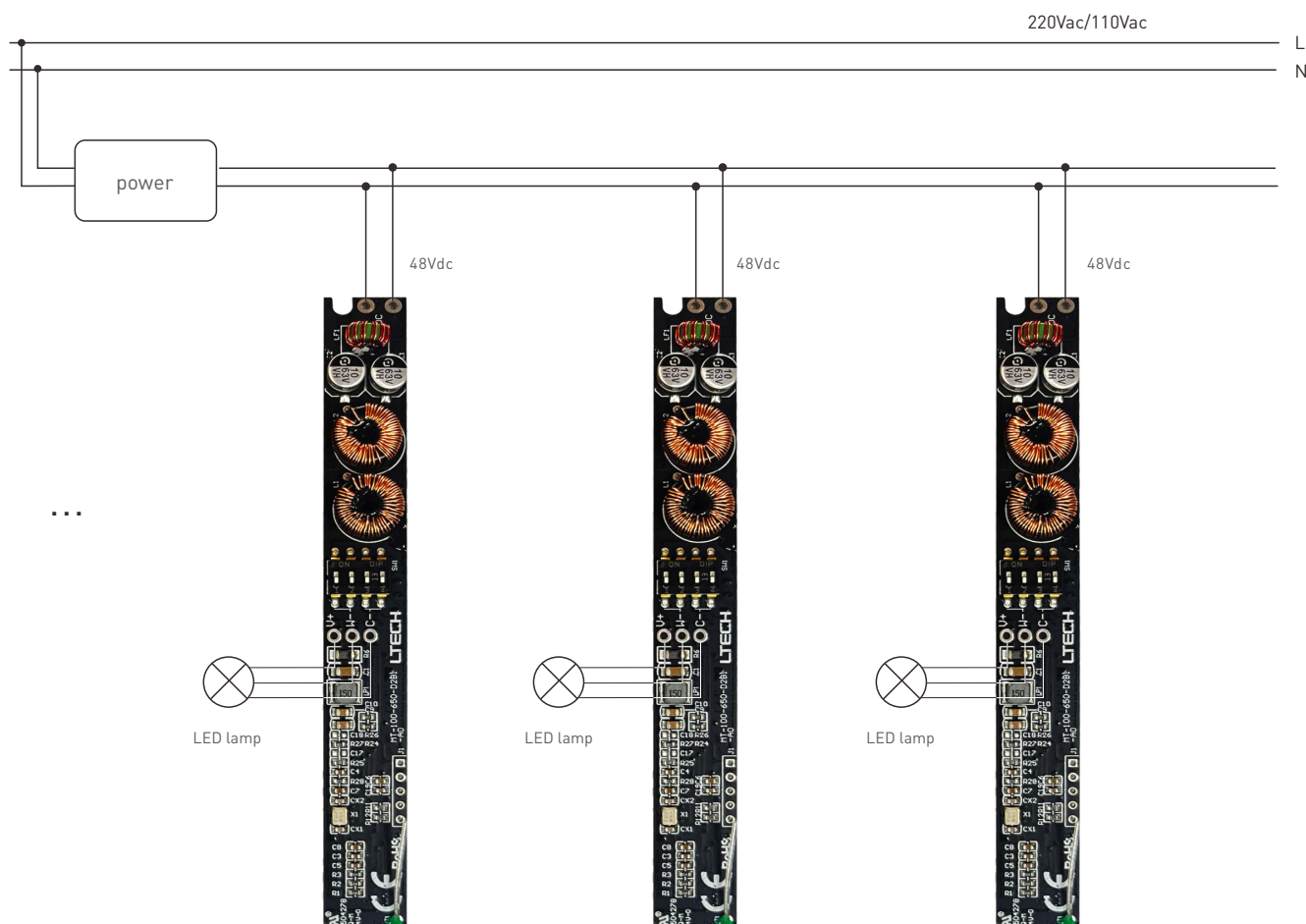
Main view



Side view



## Wiring Diagram



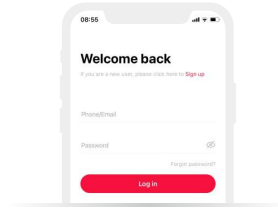
## App Operating Instructions

### 1. Register an account

The App is available on iOS or Android devices. Scan the QR code below with your mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.

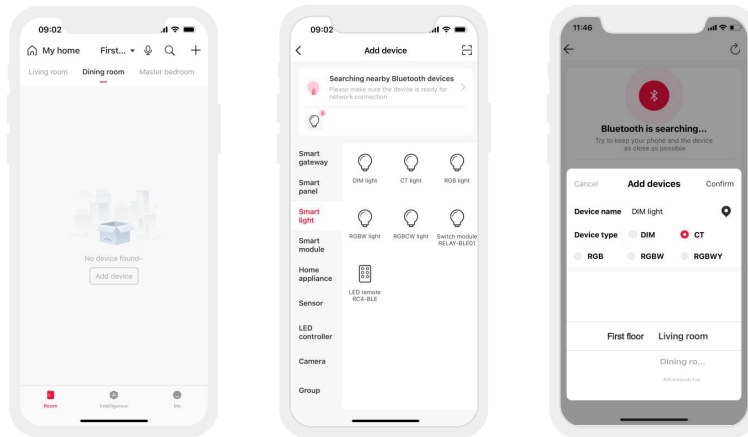


Scan and download the App



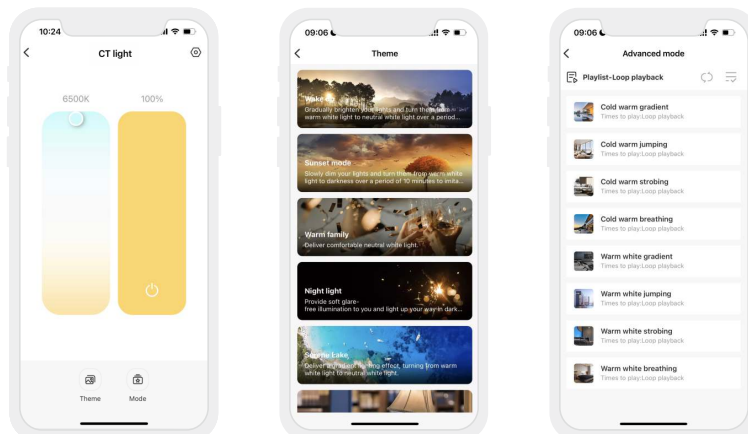
### 2. Control interface settings

Create a home if you are a new user. Click "+" icon in the upper right corner and access the "Add Device" list. Follow the prompts to add the driver first, then pick "Smart lighting" - "CT light (BLE)" in the device list. Follow the prompts to power on the device first and make sure the device is not connected to the network, then click "Bluetooth Search" and follow the prompts to add the device.



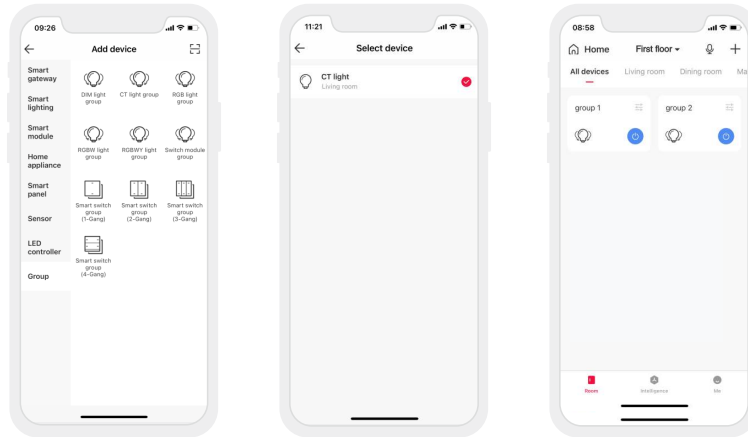
### 3. Control interface settings

After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness and color temperature. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic modes to put you into a more colorful life.



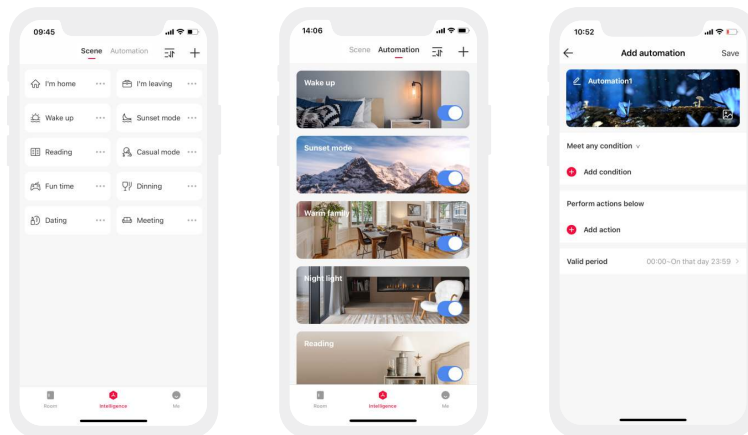
## 4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level and adjust the color temperature more easily. Pick "Group-CT light group" from the list. Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".



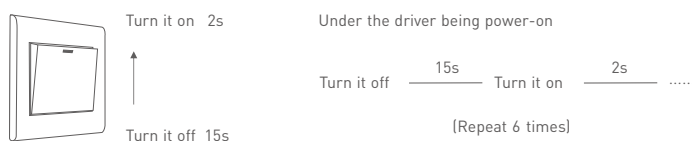
## 5. Advanced functions

The driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions such as cloud scenes and automation.



## Reset The Device (Reset to factory defaults)

Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times, reset the device to factory defaults successfully.



## Packaging Specifications

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Model             | MT-100-250-D2B1、MT-300-450-D1B1、MT-500-650-D1B1 |
| Carton Dimensions | 370×290×190mm (L×W×H)                           |
| Quantity          | 240 PCS/Carton                                  |
| Weight            | 0.020 kg/PC; 4.8 kg±5%/Carton                   |

## Packaging Image



Carton Packaging

## Transportation and Storage

### 1. Transportation

Products can be shipped via vehicles, boats and planes. During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

### 2. Storage

The storage conditions should comply with the Class I Environment Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

## FAQs

### 1. What should I do if I fail to add the device?

- 1.1 Please make sure the device is powered on normally and is in the activated mode.
- 1.2 Please make sure the device hasn't been added by any other account. If it did, please reset to factory defaults manually.
- 1.3 The recommended distance between the mobile phone and the device is no more than 20 meters.
- 1.4 If the device has been forced to delete, please reset to factory defaults manually and then add the device again.

### 2. What should I do if the device disconnects from the network?

- 2.1 Please make sure the device is powered on normally.
- 2.2 Please make sure the router works normally and the network runs smoothly.
- 2.3 If you control the device remotely, please make sure your phone network runs smoothly.

### 3. How to control remotely and set cloud scenes?

Remote control and cloud scenes can be achieved only by working with LTECH Super Panel.

### 4. How to share control of your home devices?

Please go to "Me" - "Home Management" and access the home you want to share.  
Click "Add Member" and follow the prompts to add members to your home.

## Attentions

- This product must be installed and adjusted by a qualified professional.
  - LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices
  - Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
  - Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
  - Please check whether the working voltage used complies with the parameter requirements of the product.
  - Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
  - If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- \* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

## Warranty Agreement

- Warranty periods from the date of delivery : 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

### Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

### Update Log

| Version | Updated Time | Update Content   | Updated by   |
|---------|--------------|------------------|--------------|
| A0      | 2023.04.23   | Original version | Yang Weiling |