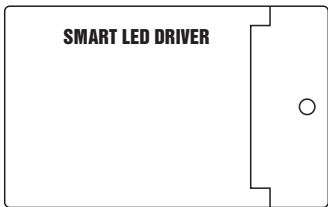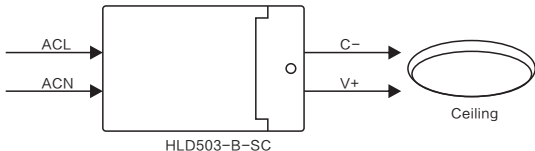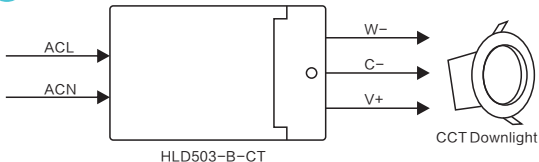# Bluetooth Mesh 40W LED Driver

SMART LED DRIVER

① Module Features

HLD503-B-CT is a 40w constant LED driver embedded bluetooth mesh module. It works with cct or dimmable panel, downlight celling light.

② Environment and Electrical Parameters

Parameters	HLD503-B-CT	HLD503-B-SC
Input power	100-277VAC	100-277VAC
Channels	40 Channels	40 Channel
Output Current	950mA MAX	950mA MAX
Output DC	24-38V	24-38V
PF	> 0.9	> 0.9
EFFICIENCY	Max 85%	Max 85%
Wireless frequency	2.4GHz	2.4GHz
Operation temperature	-20℃ to 40℃	-20℃ to 40℃
No land power	< 0.5W	< 0.5W

3 Wiring Diagram

ACL →
ACN →

HLD503−B−CT

→ W−
→ C−
→ V+

CCT Downlight

ACL →
ACN →

HLD503−B−SC

→ C−
→ V+

Ceiling

4 Restore Factory Setting

Step 1. Power on and wait 2seconds.
Step 2. Power off, and wait above 3seconds.
Step 3. Repeat 1st step and 2nd step 3 times.
Step 4. Then power on, light will keep flashing.

5　Installation

5.1　Install the app on your smart phone or table device.

5.2　iOS: Search for and download the "iBLEs" app in the APP Store or download it directly by scanning the iOS QR code below.

5.3　Android: Search for and install the "iBLEs" app from the Google Play Store or download it directly by scanning the android QR code below.


iOS

Android

6　iBLEs App User Guide

6.1　Connecting your Bluetooth Device

- With Bluetooth on your mobile device switched on, run the iBLEs App. Once the connection between your mobile/ tablet device and touch switch is established the main menu will appear.

- If the connections fails, iBLEs will automatically continue to attempt to pair the devices in the background.

  NOTE: Only one parent phone/ tablet device can be connected to your switches in this manner. Additional mobile/ tablet devices can then be given access to the switches by synchronizing with the parent mobile/ tablet device.
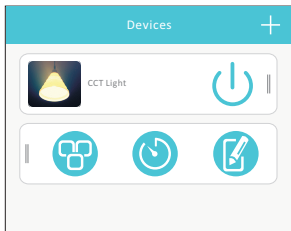

Devices

Loading...

We are connecting you to your Bluetooth network.
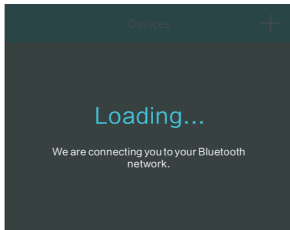
6.2 Add Device

- Click ⊞ to find devices. New devices will begin to populate the list. Select and pair the devices.

Devices +

← **Find Devices**

Dimmable light 1 ✓

CCT Light 1 ✓

CCT Light 2 ✓
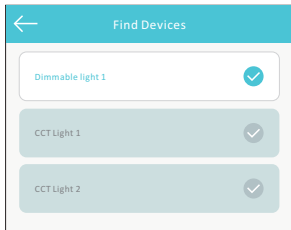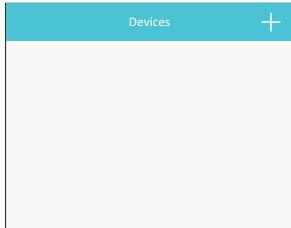
6.3 Accessing the Functions Menu

■ Once device has been paired, the user may view the functions menu by swiping across on the device in the main menu list.

6.3.1 Edit Devices

■ Once in the functions menu the user may click on the edit button followed by the menu button to:

- Change device name
- Synchronize time
- Test Device
- Delete device.

NOTE: If the time on the bluetooth device is different from that of the mobile device, the timer function will not operate accurately. To avoid this, ensure that the two device times are synchronized.

6.3.2 Add/ Edit Group

- Once in the functions menu (ref 5.3), click on to add group.

- The user may click on the edit button to delete the group or modify the group name. Click "Select Device" to add devices to your new group.

   NOTE: One device can be stored in up to 4 groups. Once this is exceeded the device will no longer appear in the "Select Device" listing for future groups.

| ← | Edit Group | ☰ |

Group 1

Select Device

Try me!
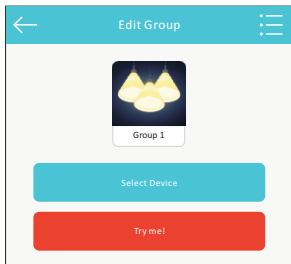
6.4 Add/ Edit Timer

- Click button to add the timer function. Within the timer function, set the time, week and how often you wish the timer to repeat. The device can then be set.

- Click the button to add an on & off timer. Long press the timer button to edit or delete the timer.

   NOTE: Each device can support up to 8 timers only.

| ← | Timer | + |

17:30 S M T W T F S
   ☀ 40% ☀ 80%
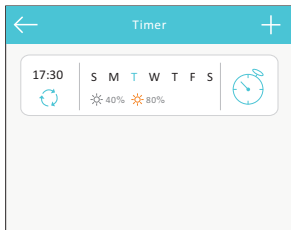
6.5 Add Scene

- Click ➕ to add scene, then click ☰ to edit scene name or delete the scene.

- Click Select Device to select devices and preset status.

  NOTE: The user may set the device status in the "Select Device" menu by clicking on the left most section of the select option.
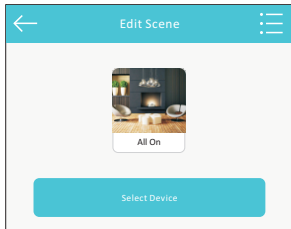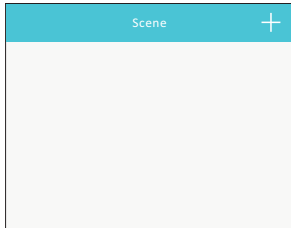
6.6 Control/ Edit Scene

- Click the scene icon to view or set the preset status of the devices in this scene.

- Long press the scene icon to edit or delete the scene.
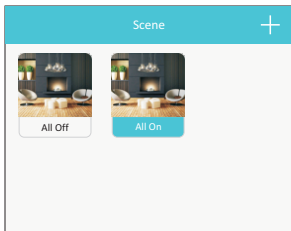
6.7 Data Synchronization

- Export data to SD Card. (For Android App only)

- Import data from SD card. (For Android App only)

- Import data from WLAN - Prior to proceeding, ensure that the 2 mobile devices are connected to the same WLAN and are running the iBLEs app. Once this is done, click on "import from WLAN" and find the synchronized mobile device. Once the device accepts synchronization will begin.

  NOTE: Ensure you backup your iBLEs database. This will ensure any lost data can be recovered and will avoid any factory reset's that may be required.
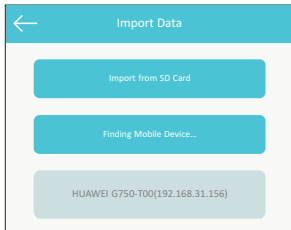
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different

from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID: 2AJ7E−HLD503−B