

CUPOWER

BORN TO BE LIGHT.



Instruction manual

Firmware upgrade

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Firmware Upgrade for DALI drivers

This document provides a clear and concise procedure for upgrading the firmware of CUPOWER LED drivers using the i-Master interface device.

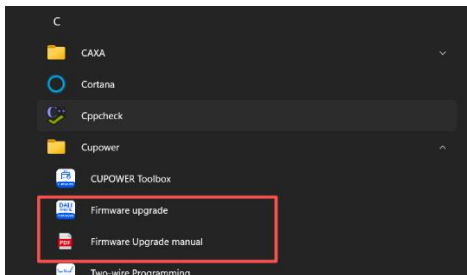
1. Download the Firmware Upgrade Tool

Download the CUPOWER Firmware Upgrade installation package from the following link: [Service - CUPOWER | Born to be light](#)

2. Install the Application

Install the Firmware Upgrade Tool on your computer.

After installation, search for the following shortcuts:



- Firmware Upgrade App
- User Manual

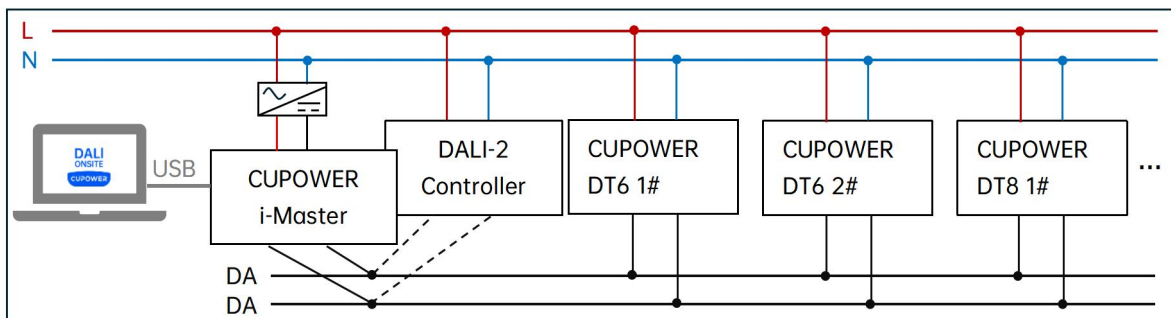
3. Establish the Hardware Connections

(1) Launch the Firmware Upgrade Tool on your computer.

(2) Connect the **i-Master** to the computer via USB.

(3) Connect the **LED drivers** to the i-Master.

- If you have only one CUPOWER driver product, please directly connect the driver to the DALI interface of the i-Master, and enable the integrated bus power supply of the i-Master as described in Section 4.
- If it is to be used at the installation site, it is recommended to disconnect the DALI bus at the DALI controller and connect the DALI cable to the i-Master as shown in the diagram below. This prevents commands from the controller from interfering with the firmware transmission. If there is an additional bus power supply on the bus and it is not disconnected, you should skip Section 4 and not use the i-Master's integrated bus power supply, to avoid the DALI bus current exceeding 250 mA.



(4) Connect the **LED drivers** to **mains voltage**.

4. Configure the DALI Bus Power Supply

The i-Master includes an **integrated DALI bus power supply**.

If you intend to use the internal DALI supply:

(1) Connect the **AC adapter** to the i-Master.

(2) Press the button on the front of the i-Master.

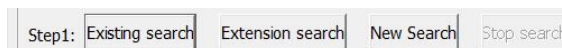
(3) The **DALI Supply** indication of **i-Master** will turn on.

(4) The DALI status icon (bottom right of the software window) will change from **grey** to **green**.

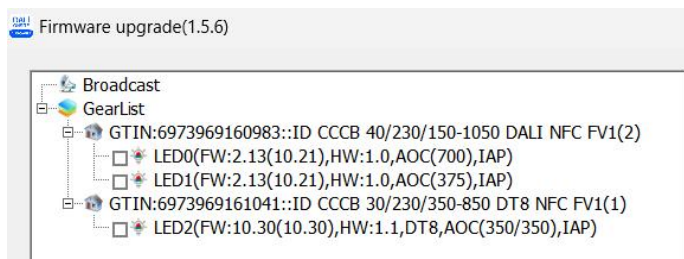


5. Address the Drivers

Use one of the three available driver addressing methods provided in the Firmware Upgrade Tool.

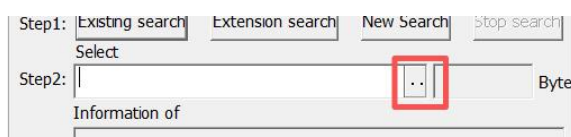


After the address search is completed, all drivers on the bus will be displayed in the GearList on the left side of the UI.



6. Load the Firmware File

Click the **three-dots** icon to browse and select the firmware file (*.bin*) supplied by the CUPOWER support team.

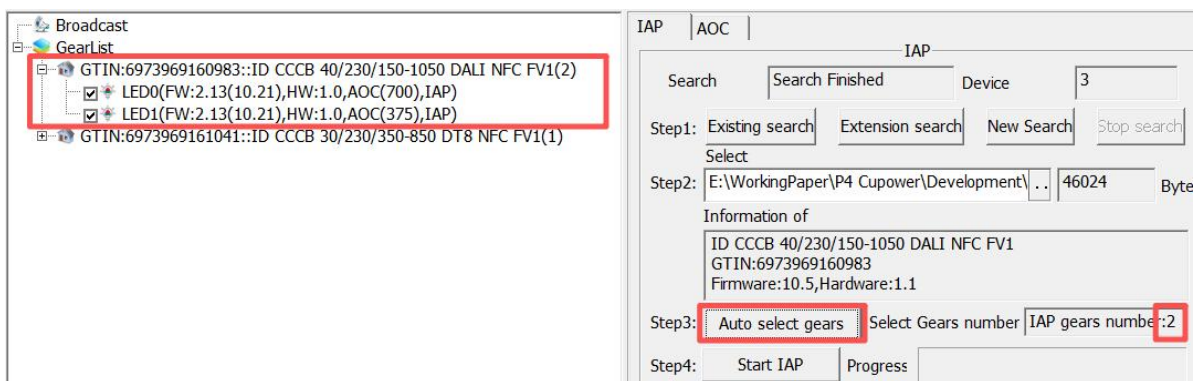


7. Auto-Select Compatible Drivers

Click **"Auto select gears"**.

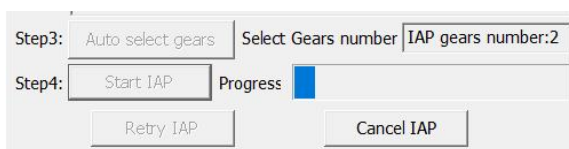
The tool will automatically detect and select all compatible drivers for the chosen firmware.

In the GearList, the checkbox of the selected drivers will be checked, while drivers with mismatched models will be collapsed, and their checkboxes will remain unchecked.

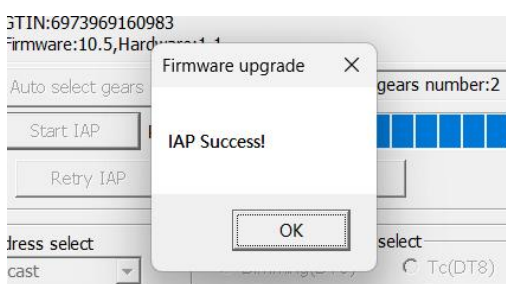


8. Start the Firmware Upgrade

Click **"Start IAP"** to begin the firmware transfer. The selected drivers will undergo a simultaneous firmware upgrade.



The upgrade process typically takes **15–20 minutes**.



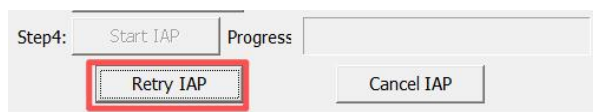
Important:

- Do **not** disconnect the drivers
- Do **not** interrupt the AC power
- Do **not** disconnect the i-Master

9. Finish the Firmware Upgrade

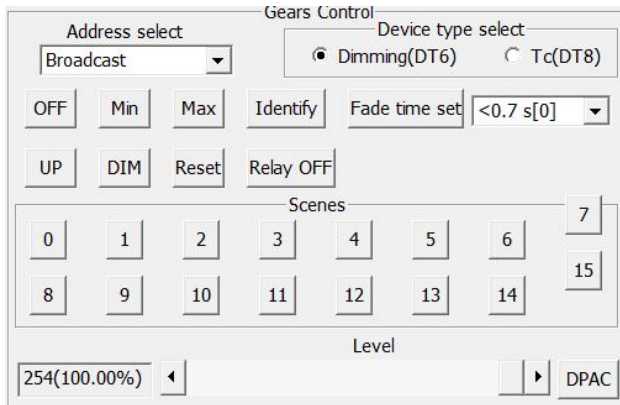
If a driver is connected to an LED module and the lights are switched on, the lights will automatically switch off when the driver begins receiving the firmware. Once the firmware has been successfully updated, the driver will automatically restore the lights.

If a driver update fails, the lights will not be switched on again, and the driver cannot be localized using the addressing method described in Step 5. However, you can resolve this by ensuring the connections to the drivers are stable and clicking 'Retry' to restart the firmware transfer process.



When upgrading the firmware for drivers on-site, there is no need to worry about changes to the driver configurations. After the upgrade is complete, use "Existing search" to check for any missing luminaires. If some luminaires are not detected, simply click "Retry" to resend the firmware to the drivers that failed to upgrade, and the issue will be resolved.

The Firmware Upgrade Tool provides a series of shortcut commands designed to test whether the drivers are operating properly. This will assist you in thoroughly verifying the success of the firmware upgrade on-site.





CUPOWER Europe GmbH

Ahornweg 5a,
58675 Hemer, Germany
+49 2372-568-7570
dirk@cupower.com

CUPOWER North America, Inc.

655 Raco Dr. Suite A,
Lawrenceville, GA 30046, USA
+1 905 658-2500
scottr@cupower.com

Shenzhen Xiezheng Electronics Co., Ltd.

Floor 2, Building E, Taohuayuan Smart & Innovation Park,
Bao'an District, Shenzhen, China
+86 755-2781-9400
sales@cupower.com

Hunan Xiezheng Electronics Co., Ltd.

Building 11, Innovation Park, Linyi Road, Bailutang Town,
Suxian District, Chenzhou, Hunan, China
+86 735-265-3770
sales@cupower.com

www.cupower.com