

# controlCUE-dali-d

Ethernet IP Enabled Controller with DALI and General I/O Ports



## Main Features

- 1x DALI control port
- 8x General I/O port
- ARM® processor platform
- Internal RAM LPDDR 64 MB
- Internal flash 256 MB
- Onboard real time clock
- Front panel indicators
- Wired 10/100 BaseT LAN
- Power over Ethernet or 24 VDC power supply
- DIN rail plastic enclosure, width 4 modules
- Web server and Admin Web pages for setup

## Description

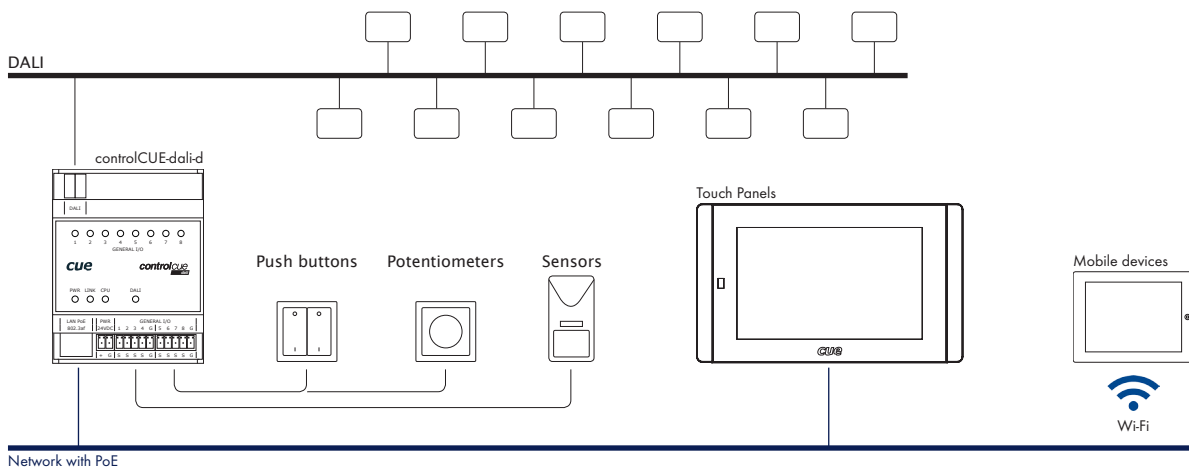
The controlCUE-dali-d is fully functional IP controller with KNX port and eight general I/O ports. Fully compatible with CUE touch panels, this controller provides connection between Cue System and DALI bus and it can work as standalone device.

DALI (Digital Addressable Lighting Interface) is a data protocol and transport mechanism for control of fluorescent HF ballasts, LED drivers, low voltage transformers, etc. Up to 64 devices and 15 independent groups can be addressed.

Single cable Ethernet connection provides easy network integration. The controller is equipped with Power over Ethernet (PoE) technology enabling an Ethernet network cable to deliver both data and power. The controller installs easily on a DIN rail or on a wall.

This controller comes with a web server and allows setup through a standard web browser. Unit programming is based on CUE's standard programming tool Cue Visual Composer.

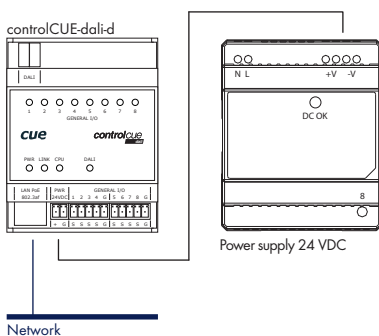
## Application Diagrams



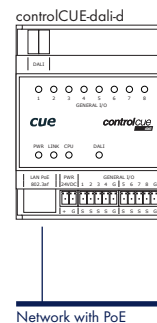
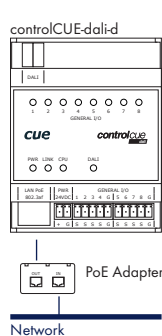
For connection to a network without PoE infrastructure, the local power supply can be used. There are two possibilities as described on the following pictures.

For easy installation, the controller has integrated IEEE 802.3af PoE support, allowing installation in areas where PoE network infrastructure is installed.

Power supply 24 VDC



PoE Adapter



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## Specifications

### Control ports

- 1x DALI
  - Up to 64 devices
  - Up to 15 independent groups
  - Pluggable terminal block 2 x 4 push-wire connection, AWG 18-22

### 8x General I/O

- Analog input 0 - 20 V, 12-bit A/D converter
- Digital open collector output, max. 80 mA
- Switchable pull-up 680  $\Omega$  to 5 V
- Two 5-pin 3.5 mm connectors with common ground

### LED indicators

- Blue Power - indicates power is presented and unit is ready.
- Green Link - indicates network link and activity.
- Yellow CPU - confirms the system default function is performed.
- Green / Red DALI - indicates DALI port activity.
- Green General I/O - indicates output is closed.

### Button

- System Default sets default IP address and password.

### Real time and date

- RTC with battery backup

### Memory

- Internal RAM LPDDR 64 MB
- Internal non-volatile flash 256 MB

### Software technologies

- Admin Web, XPL<sup>2</sup> Inside

### System communication

- 10/100 BaseT Ethernet, RJ-45 connector

### Power supply

- Power over Ethernet (PoE), IEEE 802.3af compatible
- 24 VDC (+/-20%), 3 W, 2-pin 3.5 mm connector

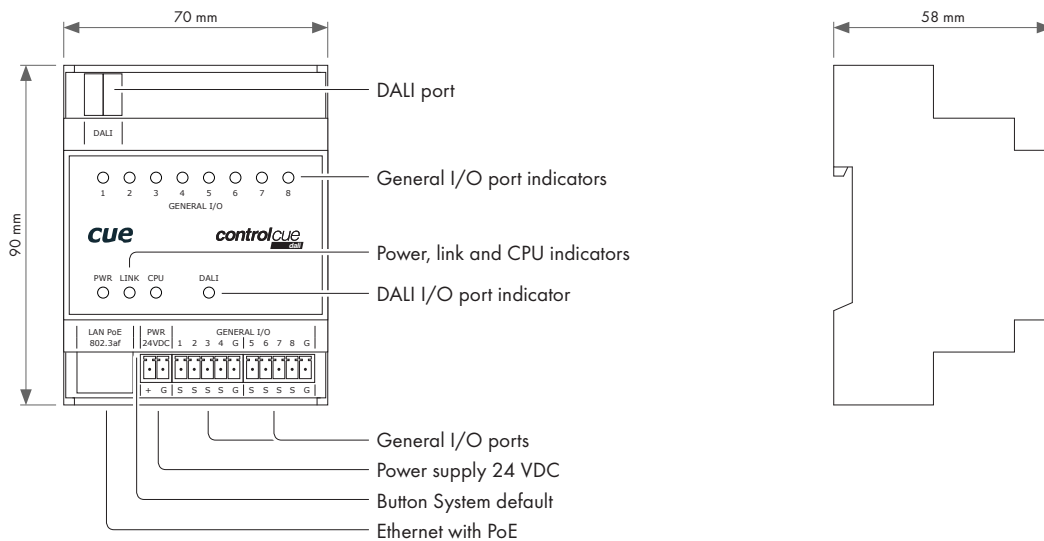
### Physical

- DIN rail plastic enclosure compatible with DIN EN 50022
- Width 4 modules
- Dimensions 70 x 90 x 58 mm / 2.8" x 3.5" x 2.3"
- Weight 0.2 kg / 0.5 lb

### Environment conditions

- Operating temperature 10° to 40° C
- Storage temperature 0° to 60° C
- Relative humidity 10% to 90% non-condensing

## Mechanical Description



## Box Contents

- Controller controlCUE-dali-d
- Connector set
- Ethernet cable
- Power supply
- Data Sheet
- Declaration of Conformity
- Cue System Connector Wiring Sheet

## Order Information

Product code CS0454