controlCUE-knx-d

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

cue

Main Features

- 1x KNX galvanically isolated control port
- 8x General I/O
- 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
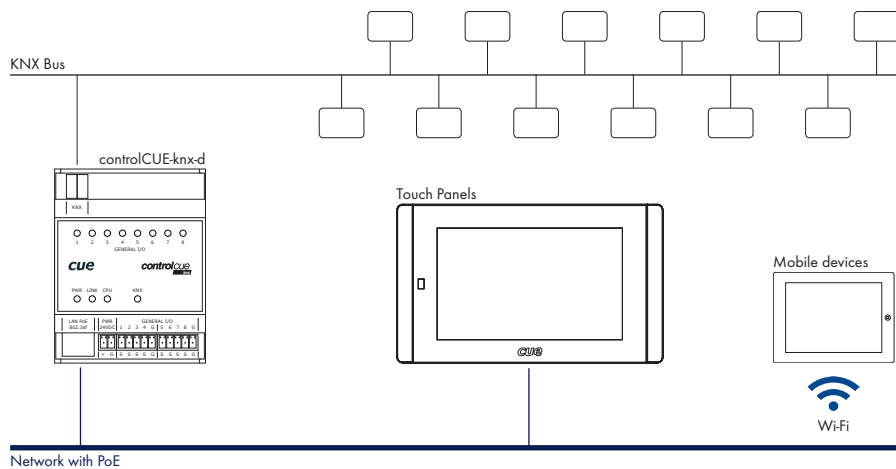- Web server and Admin Web pages for setup

Description

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

KNX port is galvanically isolated and is capable of addressing and controlling up to 250 KNX objects. No polling is necessary because the unit is capable of sending live updates.

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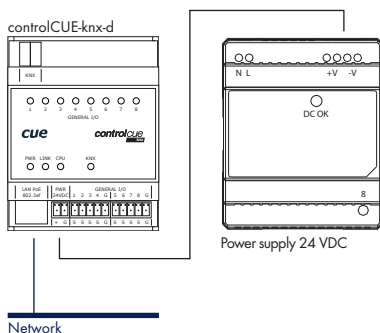
This controller comes complete with a web server and allows setup through a standard web browser. Unit programming is based on CUE's standard programming tool Cue Visual Composer.
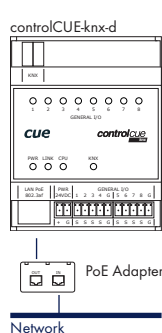
Application Diagrams

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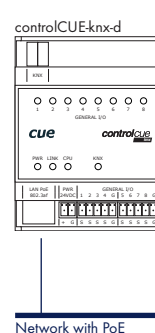
For easy installation, the controller has integrated IEEE 802.3af PoE support, allowing installation in areas where PoE network infrastructure is installed.

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Specifications

Control ports
    1x KNX
        250 KNX addresses
        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 Ω 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 KNX - indicates KNX port send / receive.
    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^2 Inside

System communication
    10/100 BaseT Ethernet , RJ-45 connector

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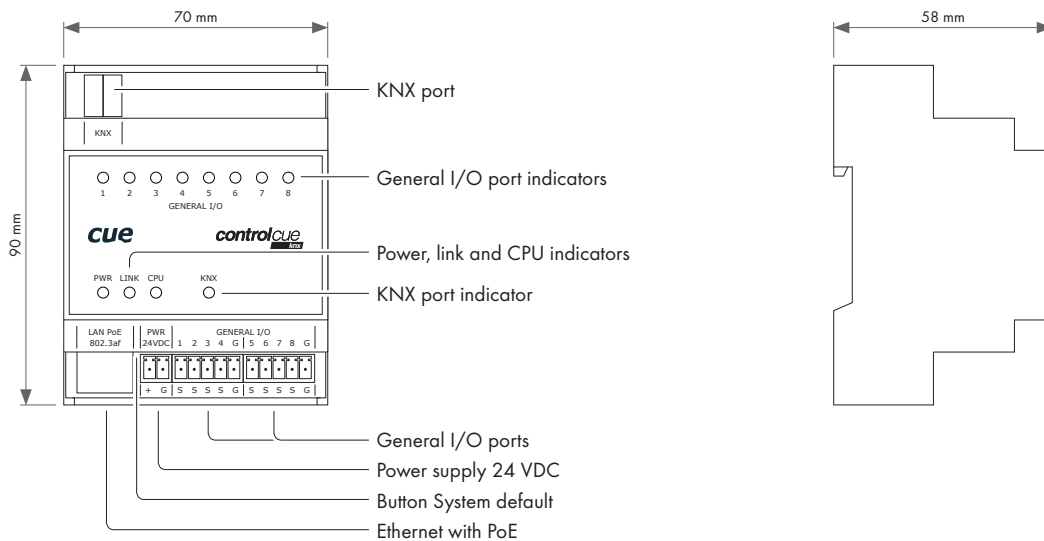   24 VDC (+/-20%), 3 W, 2-pin 3.5 mm connector

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

Order Information

Product code CS0455