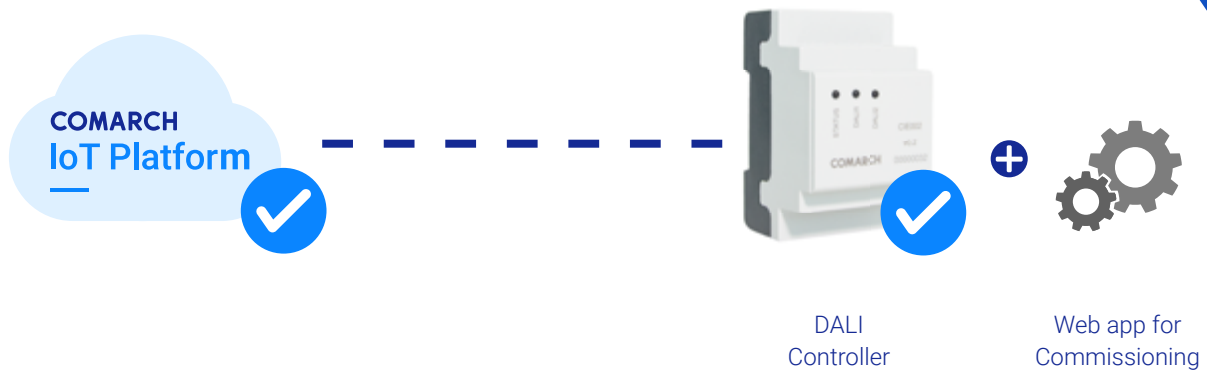# COMARCH

Comarch DALI 2 Application Controller

Comarch Smart Lighting

Comarch DALI 2 Smart Lighting infrastructure

We have designed system to control electricity usage in your lighting infrastructure. It is a comprehensive solution with Smart Lighting Application.

COMARCH
IoT Platform

DALI
Controller

Web app for
Commissioning

Features:

- Fully compliant and compatible DALI-2 certified application controller
- Compatible with DALI devices
- 10 / 100 Ethernet to connect to cloud
- Powered by PoE
- Mounting on standard 35 mm DIN rail
- Automatic DALI scanning for device changes

- Automatic DALI short addressing
- Protected against DALI over voltage
- LED indicators for system status
- 2 DALI buses of up to 64 control gears and 64 control devices per busmonitoring on DALI Buses and a Logs View for maintenance and troubleshooting purposes
- Commissioning Tool hosted locally on Application Controller with features: Scenarios, configuration of the Dali network and many other

What comes with Comarch Smart Lighting:

- Central control over whole luminaries controlled per lamp, per room, per zone, or per building.
- Predefined scenarios to manage lamp intensity and other controls such as: group scenes, time scenarios

- Option of turning off the lights at night, per single click
- Retrofitting of the whole lighting infrastructure
- Compatible with a wide range of lamps from various manufacturers
- Compatible with multiple types of input devices from various manufacturers, provided they comply with DALI-2
- Operates without Internet connection

DALI 2 – we based our solution on DALI 2 (Digital Addressable Lighting Interface-2). DALI-2 is an international standard for lighting control systems that allows easy control and monitoring of individual luminaires. It can be easily integrate with existing infrastructure.

Commissioning Tool

The Commissioning Tool Application is a web-based platform designed for efficient management and configuration of the Comarch Application Controller devices.
The user interface is available in English, with the option to implement additional languages upon request.

This application provides comprehensive control over both the CAC device and each individual DALI device connected to it, such as control gears and input devices.

Device management is organized into two DALI Buses, reflecting the actual connections. Each DALI Bus allows for the control and assignment of connected DALI devices to specific groups and scenes.

Additionally, the Commissioning Tool Application features an Event Monitor for real-time traffic monitoring on DALI Buses and a Logs View for maintenance and troubleshooting purposes.

Compliance standards:

- EN 61347-1:2015-09/A1:2021-06
- CISPR 15
- EN 55015:2019-11
- EN 62368-1:2020-11
- EN 61547:2009
- EMC-2014/30/UE
- LVD-2014/35/UE
- IEC 62386-101
- IEC 62386-103

Required accessories:

DALI-2 bus power supply
PoE adapter or PoE switch

Specifications

Input Voltage	48V through PoE
Max Power Consumption	2W
DALI bus capacity	2 DALI buses (up to 64 control gears and up to 64 input devices per bus)
Start-up time	10s - 5min Highly dependent on number of connected devices
Ethernet	10 / 100 Mbits / sec twisted pair network types (cabel min cat. 5E)
Ethernet connection	RJ45
DALI bus connector	SH02-3,81-RD
DALI bus terminals	2 x 1,5 mm^2 solid / stranded
Operating temperature	0 to 50°C
Storage temperature	-10 to 70°C
Humidity	0% - 95% RH non-condensing
Ingress protection	IP20
Material	ABS
Weight	80g

Our solutions are customized for variety of businesses:

Energy suppliers

Medical facilities

Energy integrators

Commercial buildings administrators

Hotels & Tourism

In Comarch we believe, the future is data-driven. And that's why we're on a mission to make the companies run on clean energy and save money in energy expenses.

Comarch

Is a leading Central European IT business solutions provider specializing in forging business relationships that maximize customer profitability while optimizing business and operational processes. Comarch Technologies draws from wide expertise that Comarch has accumulated during 30 years of its business activity in the field of delivering comprehensive IT solutions. Its main concern is to provide the customers with the most reliable and secure solutions that consist of advanced software along with innovative hardware infrastructure supported by professional services.

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