

Lighting Solutions



iLight Networked DALI Solutions

For comfortable, intelligent, efficient buildings



iLight DALI Lighting Solutions

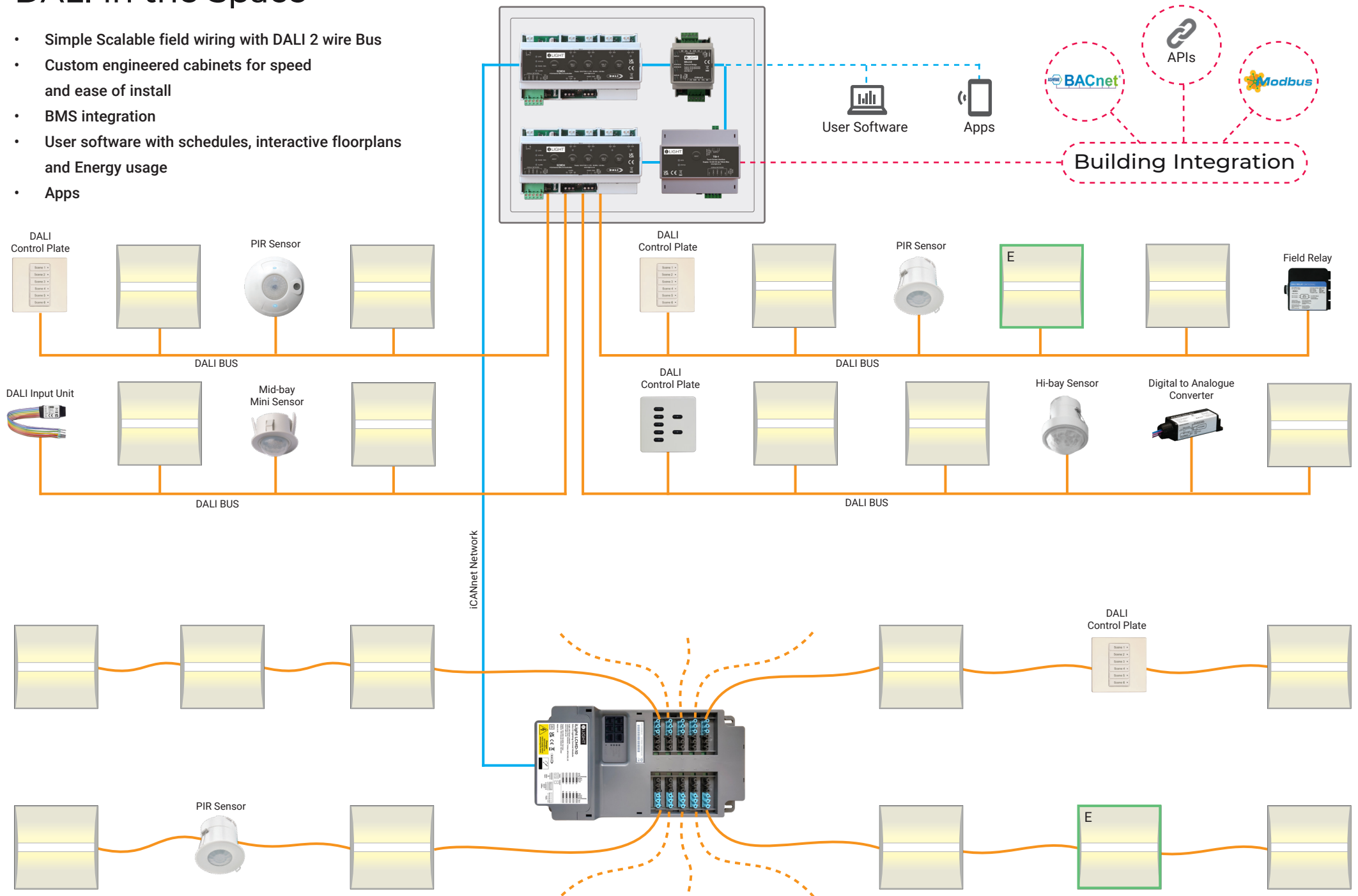
ILight provides a comprehensive range of hardwired and pluggable DALI application controllers, DALI field controllers and DALI input devices which can be seamlessly integrated with the wider iLight system components to deliver a lighting control solution that caters for all aspects of a project and the clients needs.

Specifying a DALI system provides the end client with many features, including flexibility for future structural changes, fault diagnostics for maintenance of the building or simply specified for its dimming characteristics and its worldwide recognised industry standard.

With intelligent network interfaces, control protocols can be combined together to extend the DALI system offering to additional building areas including building facade and reception feature lighting, presentation suites, HVAC and shading solutions and BMS integration all controlled via a comprehensive range of user interfaces.

DALI in the Space

- Simple Scalable field wiring with DALI 2 wire Bus
- Custom engineered cabinets for speed and ease of install
- BMS integration
- User software with schedules, interactive floorplans and Energy usage
- Apps



DALI Application Controllers

Pluggable LCM DALI Controller

LCMD-10



10 Port Self Addressing DALI Lighting Control Module

Intelligent pluggable lighting control module with 10 auto addressing DALI outputs. A maximum of 30 DALI luminaires (or short addresses) can be connected per LCMD-10, distributed at will across the 10 ports. In addition, each port supports 1 DALI Emergency Luminaire, 1 DALI IU or DALI Keypad and 1 DALI Sensor.

DALI Luminaires, inputs, control plates and sensors are auto discovered eliminating the time consuming identification process normally associated with DALI systems.

With 'out of the box' functionality, the LCM auto addresses and groups the DALI devices with a default configuration as soon as power is provided. The system is then fully operational with sensors and control plates, removing the need for a commissioning engineer at start-up. Should a connected device require replacement, the LCMD-10 will address the device upon connection and the system will 'self heal' requiring no intervention from a commissioning engineer.

Where connection is to a DALI emergency inverter using the extended DALI emergency protocol, monitoring of lamp failure, battery failure, driver failure and emergency reporting is also available.

The low profile design of the LCMD-10 is ideal for low ceiling voids or mounting directly on cable tray.

- 10 auto addressing DALI ports with Relay switch output and maintained supply
- Supports iLight DALI inputs, control plates and sensors
- Supports DALI Type 8 tuneable white
- Low profile, ideal for ceiling voids with limited space (Approximately 105mm depth, subject to cable type)
- Full DALI feedback for lamp status, DALI error and EM test
- Emergency testing of DALI and conventional luminaires
- Dimensions: 382.8 x 200.2 x 57.5mm (L x W x H)
- Weight: 2.5Kg

DALI Application Controllers

Hardwired DINrail Mount DALI Controllers

SCMD4



Hardwired 4 Universe Addressable DALI-2 Controller

SCMD4 is a 4 universe DALI-2 controller delivering dimming and switching of up to 256 individually addressable DALI devices including luminaires and iLight DALI relays. iLight DALI multisensors and control plates can be added to the DALI universes creating a complete DALI solution. Each DALI universe supports up to 64 groups and can monitor the performance of DALI addressable devices and report status back through iCANnet. Emergency light tests and reporting can also be instigated through this versatile lighting controller.

SCMD4 features direct DMX and RS485 control allowing the unit to be integrated with other systems. The switch inputs provide connection to fire or security systems or the use of remote switches and sensors. Additional switches and sensors can be connected onto the iCANnet network using iLight's wide range of interfaces.

The compact design of SCMD4 delivers system flexibility as well as reducing installation costs and space used. Being part of the iLight system, it can be seamlessly integrated into flexible architectural lighting schemes with any type of lighting load for commercial and residential applications. Integration with Building Management Systems allows for centralised control and management of the lighting system.

- DALI-2 controller – can individually dim, switch and monitor up to 256 DALI addressable ballasts
- 64 groups per DALI universe
- Includes ability to control and test DALI emergency fittings
- Supports iLight DALI sensors and field devices
- Supports DALI Type 8 tuneable white
- 2 configurable volt free inputs
- DMX and RS485 control
- 4 Internal 250mA DALI line power supplies
- Each universe has a dedicated test/override button allowing the installer to test or override the installation prior to commissioning
- Dimensions: 159 x 90 x 58mm (L x W x H)
- Weight: 0.35Kg

SCMD2



Hardwired 2 Universe Addressable DALI Controller

2 Universe DALI controller enabling control of up to 128 individual DALI addresses.

- 64 groups per DALI universe
- Includes ability to control and test DALI emergency fittings
- Supports iLight DALI sensors and field devices
- Supports DALI Type 8 tuneable white
- 2 Internal 250mA DALI line power supplies
- Dimensions: 159 x 90 x 58mm (L x W x H)
- Weight: 0.35Kg

DALI Signal Converters

DINrail Mount Dimming

SCMA0401



4 Channel x 1A Adaptive Dimmer

Designed and tested to meet the unique demands of mains dimmable LED the SCMA0401 is the ideal solution for your lighting control needs. With our Patent Pending* "iLight Adapt" trailing edge technology the SCMA0401 will adapt to the particular characteristics of each connected LED load to deliver the best possible dimming performance and compatibility. Scalable dimming curves optimise the effective dimmable range particularly enhancing control and sensitivity at low lighting levels.

In addition to its "iLight Adapt" trailing edge mode the SCMA0401 also offers leading edge and switched modes, selectable by channel, to extend the capabilities beyond just LED loads to other lighting types such as incandescent and halogen lamps for dimming or switching (Note: SCMA0401 is not for use with inductive loads).

SCMA0401 can provide phase cut dimming capabilities to a DALI system using its DALI input as well as being linked with a virtually limitless number of other iLight products via the iCANnet network connection.

- Controlled via iCANnet or DALI
- Channel pairing for 2A loads
- Selectable dimming modes – "iLight Adapt" trailing edge, leading edge and switched
- Scalable dimming curve to optimise the usable dimming range of a load
- No minimum load
- Quiet dimming operation
- DALI Input (4 individual DALI addresses)
- Dimensions: 159 x 90 x 60mm (L x W x H)
- Weight: 0.2 Kg

SCMH1200



12 Channel Digital Dimming Controller

This SCMH1200 is a DINrail mount 12 channel digital dimming controller. Each channel may be configured to provide Broadcast DALI, DSI or 1-10V control.

- Controlled via iCANnet or DALI
- 12 x 1-10V source/sink, DSI or Broadcast DALI outputs
- Dimensions: 212 x 90 x 58mm (L x W x H)
- Weight: 0.35Kg

DALI Signal Converters

DINrail Mount Switching

SCMR1232



12 Channel 32 Amp Feed Through Relay Controller

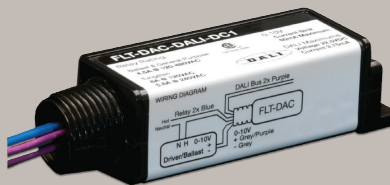
This 12 channel feed through relay unit provides outstanding features and performance in a truly competitive and compact package. Each channel is rated for up to 32 amps and is designed to sit on load lines to switch heavy loads of all types.

With iLight network, DMX and DALI connectivity, it has the capability of being linked with a virtually limitless number of other products to build up to any size of system. This product is designed for projects where high power switching is required including metal halide and high pressure sodium lamps as well as non-lighting loads of any voltage up to 230VAC.

- Controlled via iCANnet or DALI
- Any phase on any input
- Switches resistive, inductive and capacitive lighting loads
- DMX and RS485 control
- Alarm input
- Dimensions: 212 x 90 x 58mm (L x W x H)
- Weight: 0.8Kg

DALI Digital to Analogue Converter

FLT-DAC-DALI



DALI Digital to Analogue Converter

Built-in relay and 0-10V current sinking interface used to integrate individual or a group of dimmable 0-10V ballasts/drivers to iLight's DALI lighting control system.

- Ultra low profile form factor designed to fit inside most ballast compartments
- Automatic detection of the DALI Bus power loss with default to closed, i.e. on or 100% position
- Powered from the DALI bus, consumption: 3.75mA
- Dimensions: 100 x 28.6 x 25.4mm (L x W x H)

DALI Field Relay

FLT-HPRS-DALI



DALI Field Relay

The iLight Field Relay provides On/Off control and network connectivity. It uses advanced switching technology specifically designed to handle the large inrush currents and inductive loads found in lighting applications.

- Maximum Load: 20 Amps
- Automatic loss of power detection defaults relay to closed (On) position
- Powered from the DALI bus, consumption: 3.75mA
- Dimensions: 88 x 80 x 39mm (L x W x H)

DALI Input Devices

DALI Sensors

iLight DALI sensors can be configured to trigger different scenes throughout the day, automating light levels to enhance productivity and well being. They can also be used to reduce light levels at night for security walk throughs, managing light pollution and enhancing security as well as maximise energy savings.

Examples include:

- Circulation spaces - Day scene 100%, night scene 20%
- Breakout spaces - Morning warm tones, lunchtime cool tone, evening, warm tones
- Open plan office space - Day scene daylight linked, Night scene security level
- Rentable meeting rooms - Recall tuneable white scenes to create different environments
- Rentable office space - All users have their own preference as to the light levels and colour temperature they prefer to work in.

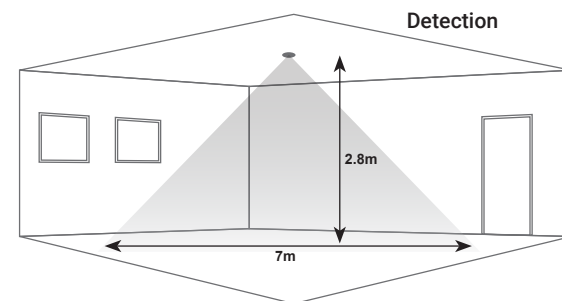
PPAD-C-DALI-ADDR



DALI Ceiling Sensor with PIR and Daylight Sensor

DALI Multi-Sensor combining daylight sensing and occupancy detection.

- Coverage: 7m Ø at 2.8m ceiling height
- Draws power from the DALI communication bus to eliminate the need for external power packs
- DALI power consumption: 8mA
- Separate surface mount box for BESA fixings
- Dimensions: 76mm Ø x 68.5mm Depth



FLT-MTS6-DALI

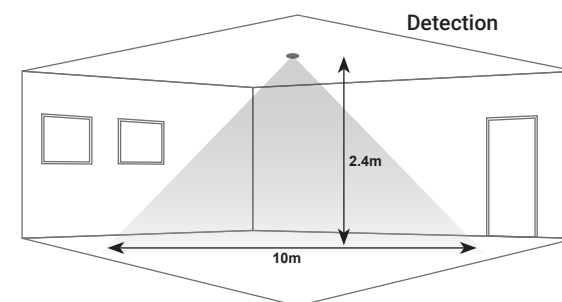
FLT-MTS12-DALI



DALI Ceiling Sensor with PIR and Daylight Sensor

DALI Multi-Sensor combining daylight sensing and occupancy detection.

- Low profile design
- FLT-MTS6-DALI Coverage: 4.5m Ø at 2.4m ceiling height
- FLT-MTS12-DALI Coverage: 9m Ø at 2.4m ceiling height
- Draws power from the DALI communication bus to eliminate the need for external power packs
- DALI power consumption: 3.75mA
- Dimensions: 91mm Ø x 36mm Depth



DALI Input Devices

DALI Sensors

PPAD-C-MB-DALI-ADDR



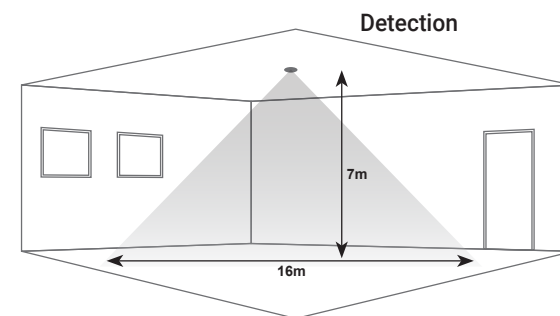
PPAD-C-MB-EXT-DALI-ADDR



Exterior IP65 version

DALI Mini Ceiling Sensor, Mid Bay PIR Presence/Absence Detector

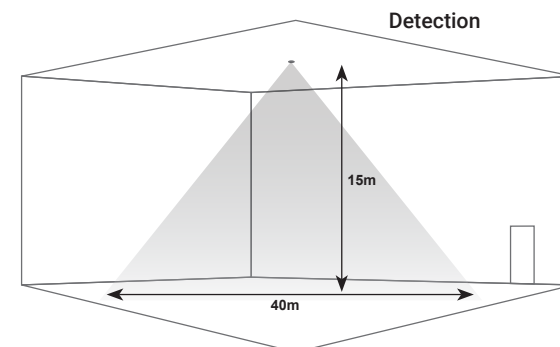
- Medium sensitivity detection
- Coverage: 16m Ø at 7m ceiling height or 9m Ø at 2.8m
- Draws power from the DALI communication bus to eliminate the need for external power packs
- Ceiling flush mounting or fixture mounting options.
- DALI power consumption: 8mA
- Dimensions: 38mm Ø x 36mm Depth



DALI Ceiling Sensor, High Bay PIR Presence/Absence Detector

High sensitivity PIR detector suitable for high bay applications, such as warehouses and factories, and where high detection sensitivity is needed.

- High sensitivity detection
- Coverage: 40m Ø at 15m ceiling height
- Draws power from the DALI communication bus to eliminate the need for external power packs
- DALI power consumption: 8mA
- Dimensions: 88mm Ø x 112mm Depth



PPAD-C-HB-DALI-ADDR



DALI Input Devices

DALI User Interfaces

DALI CLD



DALI Control Plates

Available in several button configurations which include the use of a large and small buttons. There is also a on/off button option with associated up/down adjustments. With an optional engraving service the DALI control plate is fully flexible to meet the needs of your project.

- Integrated DALI communication interface
- Draws power from the DALI communications bus to simplify wiring
- DALI power consumption: 3.75mA
- Available in Black or White plastic finishes
- Standard or custom engraving on buttons
- Suitable for standard single gang UK wall box
- Dimensions: 86 x 86 x 35mm (L x W x H)

DALI CLASSIC

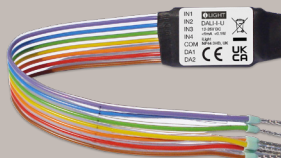


DALI Control Plates

DALI Classic control plates are available in 4 button configurations. Individual scene buttons have backlight indicator lights and strong tactile feedback. With an optional engraving service the DALI CLASSIC control plate is fully flexible to meet the needs of your project.

- Integrated DALI communication interface
- Draws power from the DALI communications bus to simplify wiring
- DALI power consumption: 3.75mA
- Range of metal finishes available
- Suitable for standard single gang UK wall box
- Dimensions: 86 x 86 x 35mm (L x W x H)

DALI-I-U



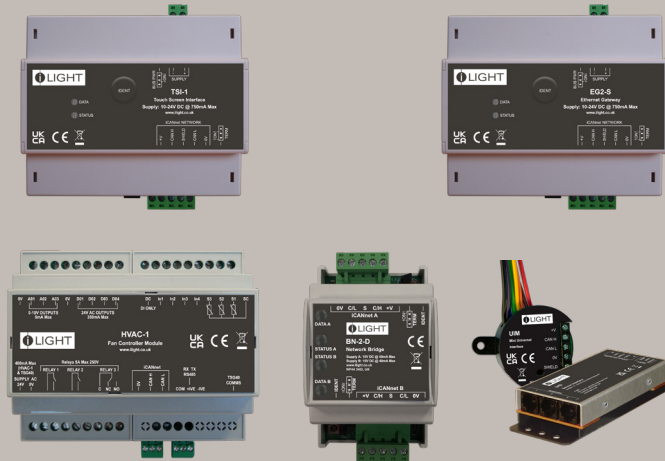
DALI Input Unit

Enables customer specified switches, sensors, time clocks or other on/off control devices to be incorporated into a standard DALI installation.

- Powered from DALI bus, compatible with standard DALI rating
- Up to four user configurable inputs
- Default functions – ready to use out-of-box
- DALI power consumption < 9 mA
- Dimensions: 27 x 20 x 4mm (L x W x H)

Building Integration

Supported Protocols for building wide integration

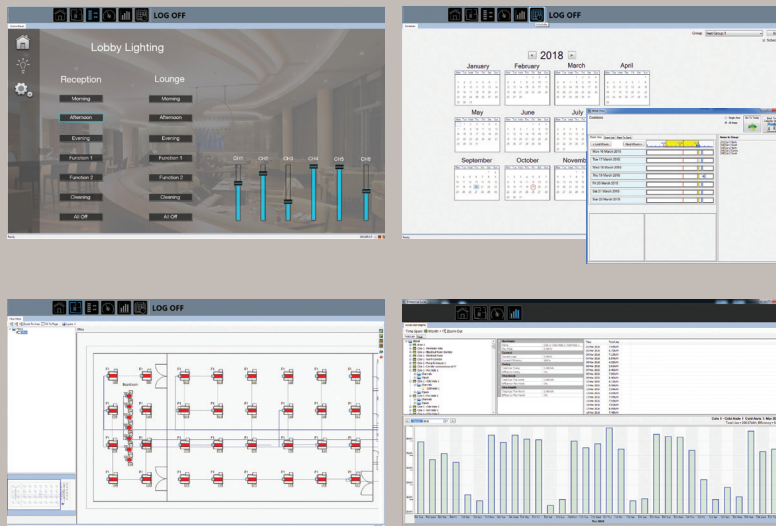


System integration devices for wider network capabilities

The iLight system provides connectivity for a multitude of applications and onward integration including:

- Lighting Control
- Heating, Ventilation & Cooling
- Shading Control
- Building management systems
- Mobile applications
- Audio Visual
- Entertainment systems
- Fire and security systems
- Ethernet
- BACnet
- Modbus
- DALI
- 1-10V
- CAN
- RS232
- RS485
- DMX512
- KNX via KNX Gateways
- Volt free interfacing

Enterprise Software Suite



Enterprise Suite is a set of software packages for the control and operation of iLight lighting control systems. There are three packages available with different levels of control capability to cater for even the most demanding lighting control applications.

Enterprise Operate is designed to give powerful user control through a simple intuitive customised graphical interface. Actions may be manually controlled or scheduled for specific day/dates and times using the powerful astronomical time clock scheduler.

Enterprise Floorplan adds the ability to import building and campus wide floor plans for additional control and feedback on system health.

Enterprise Suite Complete with Server includes calculated energy usage displays and advanced graphs for greater insight into system energy consumption.



Specification documentation

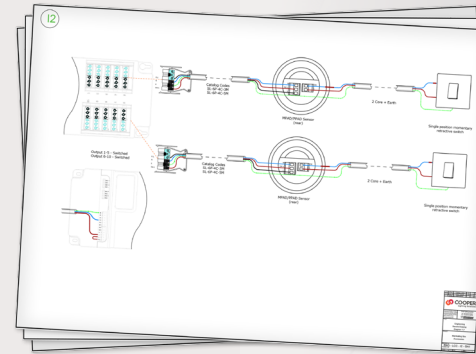
Download everything you need to spec this product and associated system components here:



Click or scan QR code

| Code | Description | Light Source | Product Code | Image | Area |
|--------|--|--------------|--------------|-------|---|
| CTRL1 | Business Suite | LED | 800-01 | | Open Plan Office & Library |
| CTRL2 | 1000m2 Lecture Theatre | LED | 800-01 | | Building wide control module |
| CTRL3 | External gateway and app control | LED | 800-01 | | For building gateway to external control module |
| CTRL4 | System Integration Module (Code to be added) | LED | 800-01 | | For end user to add applications |
| LCMD10 | Advanced Plugable Lighting Control | LED | LCMD10 | | Open Plan Office |
| LCMD11 | 4 Channel DALI Controller (200W max) | LED | LCMD11 | | Building wide |
| LCMD12 | 4 Channel DALI Controller (200W max) | LED | LCMD12 | | Building wide |
| LCMD13 | 4 x 4 LED Plug Module | LED | LCMD13 | | Back of house |
| LCMD14 | 4 x 4 LED Plug Module | LED | LCMD14 | | Building wide |
| LCMD15 | 4 x 4 LED Plug Module | LED | LCMD15 | | Building wide |
| LCMD16 | 4 x 4 LED Plug Module | LED | LCMD16 | | Building wide |
| LCMD17 | 4 x 4 LED Plug Module | LED | LCMD17 | | Building wide |
| LCMD18 | 4 x 4 LED Plug Module | LED | LCMD18 | | Building wide |
| LCMD19 | 4 x 4 LED Plug Module | LED | LCMD19 | | Building wide |
| LCMD20 | 4 x 4 LED Plug Module | LED | LCMD20 | | Building wide |

Lighting Control Equipment Schedules

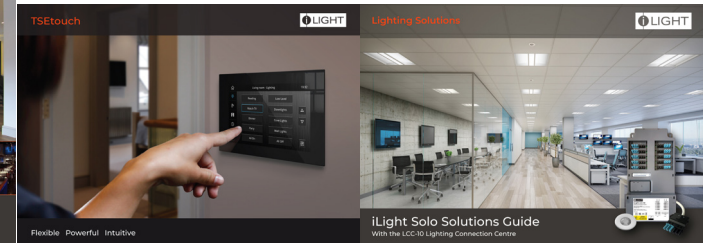
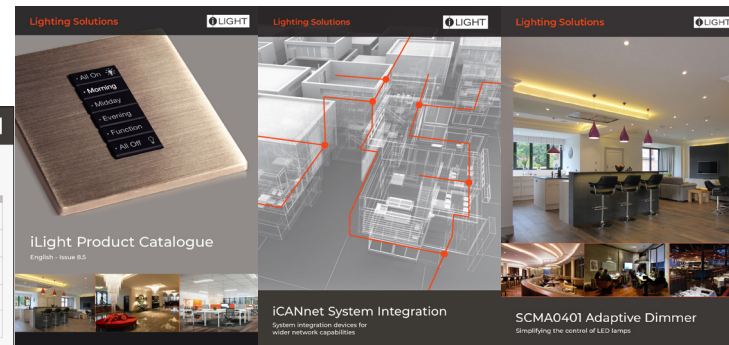
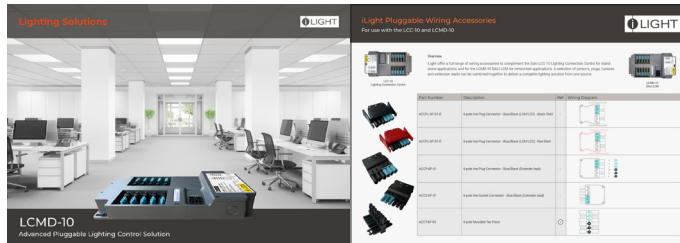


Supporting System Schematics

| System Overview | System Architecture | System Components | System Configuration | System Installation | System Testing | System Maintenance |
|-----------------|---------------------|-------------------|----------------------|---------------------|----------------|--------------------|
| 1.0 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 |
| 2.0 | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 |
| 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 |
| 4.0 | 4.1 | 4.2 | 4.3 | 4.4 | 4.5 | 4.6 |
| 5.0 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | 5.6 |
| 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 |
| 7.0 | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 | 7.6 |
| 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 | 8.6 |
| 9.0 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 |
| 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 |

System Specifications

Related iLight literature



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