



## LUXLINK<sup>®</sup> Ethernet2dali Connectivity Module

### Part Number – Link/E2daliCM/DMX

Luxlink's Ethernet2dali Connectivity Module (ECM/DMX) is a unique, ceiling mounted product that provides power, DALI communications, DMX Port (In or Out) and Ethernet routing capability for 2-seamlessly connected DALI sub-networks. The ECM enables 4-lighting circuits to be terminated from a single SWA 12-core cable or from a modular wiring type 'home run'. 2-circuits are then connected with DALI power inherent to the ECM for each of 2 DALI networks. This product replaces 8-conventional LCM's saving install time and cost whilst improving power distribution. ECM's are connected to each other using standard Cat 5e cabling for building wide solutions. Terminals are also provide for DMX controlled lighting as a system output or a DMX system input for control of DALI lighting from DMX

Housed within the ECM/DMX, an Ethernet to DALI Interface provides DALI power for 2-DALI sub-networks of 64 devices to a maximum of 250mA of DALI load for each network. Panel mount connectors then allow typically 32-40 standard and emergency luminaires and controls to be connected to each network through Luxonic's Luxlink DALI Wiring System. Luminaires take both mains and bus power from the wiring system, whereas control inputs such as Multi-Sensors, switch Input Units and Scene Panels simply plug at any luminaire connection point for bus power only, as all Luxlink network based accessories can be supplied with modular wiring system cable and plug for plug & play

#### Product Features and Connectivity:

- 12-core SWA or modular wiring cable input through removable gland plate
- Connects and powers DALI luminaires and controls for 2-DALI sub-networks from 4 feeds
- 2 - Built-in 250mA DALI Power Supply Units
- Connects up to 64 DALI standard and emergency luminaires and controls (250mA max DALI load) for each of 2 DALI networks direct or via Luxlink DALI Slave Connectivity Modules
- 2 - 5-Pole panel mount connectors for Luxlink DALI wiring per DALI network
- Built-in 5-port Ethernet Switch and Power Supply
- 256 groups per ECM from a maximum 16,384 groups
- 128 Scenes per DALI load
- Internal Astronomic and Real Time Clock
- Fixed IP Addressing
- DMX Port (In or Out)
- Self-Healing DALI networks enables auto replacement of ballasts & controls
- Automatic detection of straight (MDI) or Xover (MDI-X) cabling (100m max. length Switch to Switch)
- OPC Driver for connecting the BMS and other building services for monitoring & control
- Graphical Head end via Luxlink's Ethernet2dali Pro Graphical User Interface software package



#### Application:

Lighting Management Systems that require DMX control in addition to normal Lighting Control

#### Family Products (Network based):

Link/DaliCM/2/S	Luxlink DALI Connectivity Module, Dual Feed Slave
Link/DaliMS	Luxlink DALI Multi-Sensor
Link/DaliSS	Luxlink DALI Switching-Sensor
Link/DaliIRC	Luxlink DALI IR Controller
Link/DaliMIU	Luxlink DALI Mini Input Unit
Link/DaliSP	Luxlink DALI Scene Panel, 4-Scene

Data subject to change without notice, E & OE, Revision F – 09/06/2016



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### Technical Data

#### Connection

##### Feeds 1-4

SWA Cable: 12-Core, 2.5mm<sup>2</sup>

Modular Wiring: Home Run cable (available on request)

##### Outputs

Mating Output Plug: Ensto Blue 5-Pole NBC51S.S Male Plug

##### Ethernet

4-ports for RJ45 10/100Mbit, cat 5e up to 100m  
(auto MDI/MDI-X crossover)

##### DMX

Terminations for Standard DMX (RS485) cable for Control In or Control Out

##### Power

Mains Supply: 220-265 VAC, 45-65Hz same phase, quad feed, 16A max. per feed

DALI Supply Output x 2: 22VDC (nominal) 250mA from feed 1

DALI Consumption: 2mA per DALI network

##### Operating Conditions

Ambient Temp: 0...40°C

Relative Humidity: 90% Max. non-condensing

##### Mechanical Data

Housing: Zintec steel enclosure to RAL 9010

Weight: 4.5kg

Size: 540mm (L) x 304mm (W) x 78mm (H)

##### Conformity

EMC: Designed for:- Emission EN55081-1, Immunity EN61547

Safety: Designed for:- EN60950

IP Rating: IP20

Isolation: 4kV

##### LED Status

Power: Normal - Flashes to Off every 4-seconds

DALI 1 & 2: Normal - Off

Comms Active - Flashes

Ethernet: Connection - On

Comms Active – Flashes

No Connection - Off