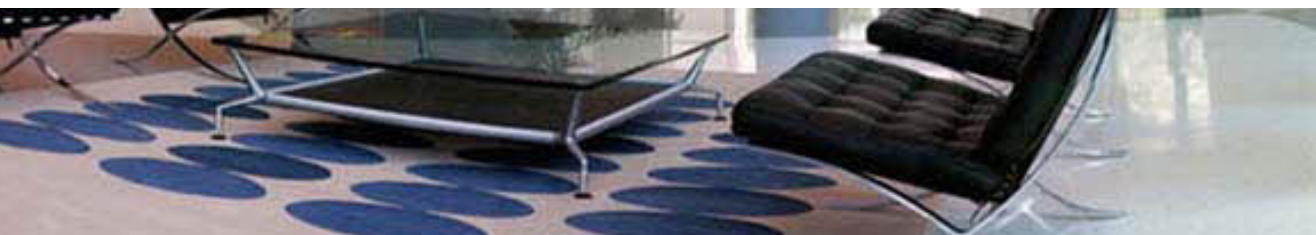




Direct Web Control
BMS/Trend Compatible

... for lighting
... for the environment
... for ease of use & engineering
Commercial Public Sector Retail





Synapsys Solutions Ltd has developed the Synapsys IP (SIP) DALI system that allows the integration of the BMS onsite and the DALI (Digital Addressable Lighting Interface) lighting devices in the building.

...for lighting

The Synapsys IP (SIP) easily allows configuration and selection of lighting scenes, providing flexibility of the lighting structure in a building or area, depending upon requirements at any specific time.



A large open plan area can be split into many sections dependant upon usage or location. For example, the end user can have walk ways or display areas set at specific lighting levels at specific times of the day whilst other areas can be dimmed to ambient lighting levels or combinations of any scene set up.



Lighting scenes do not have to be fixed, the lighting can easily be changed to suit ongoing requirements as the area develops or changes, therefore doing away with costly modifications to simple controls and wiring.

Dali Emergency ballasts can also simply be managed by the SIP. Scheduling of Emergency Lighting tests can be setup for fully automated testing and reporting.



...for the environment & energy saving

Energy usage has now become a priority for us all. The effect it has on our planet, the increasing costs involved and government legislation mean that a reduction in usage can provide significant benefits not only to the environment we live in but to the running costs of a building.



It is reported that up to 60% of the energy a building uses can be due to lighting and so is one of the key areas that need to be addressed when trying to reduce your carbon footprint.

Additionally, it is understood that 20% of the energy used to light a building can be saved by having the ability to reduce the lighting level (dimming) by utilising daylight harvesting, occupancy of an area or the time of day.



The SIP DALI System provides the end user with the ability to dim lighting levels, set lighting levels by occupancy or by the time of day either by integrating to the onsite Building Management System (BMS) or using the web based configuration pages built into the SIP.

INTELLIGENT DALI LIGHTING SYSTEM



...for ease of use & engineering

DALI ballasts are generally provided un-addressed limiting the ability of the installer or customer to hold spare ballast in-case of failures without the involvement of a lighting specialist.

The SIP gives the end user the advantage of doing away with the need for the lighting specialist, by closely monitoring the health of the ballasts and reporting to the end user when a replacement is required, the SIP will self-heal the network when a new ballast is fitted without the need for user intervention.

This allows spare ballasts / fittings independent of their addresses to be kept onsite so reducing down-time and replacement costs.

...for ease of connectivity

It is important to have the ability to allow connectivity to any BMS and so the SIP is available with either direct connection via ethernet to a Trend IQ3 controller or MODBUS functionality to allow connection to other BMS's with MODBUS capability.

However, the SIP is an Ethernet based device with web page hosting facility and incorporates most of the functionality required to control the lighting of a building.

This can allow small project requirements with no BMS availability to be easily resolved without the need to include a BMS requirement.

No Special Software No Special Training

Intelligent Lighting Scenes

Ethernet Based
Communication

For Dimmable Ballasts

Flexible System
Quick & easy to change

Trend/BMS Compatible

Direct Web Control for
Engineering, Configuration,
Reporting & Stand Alone Option

SIP Virtual Metering
- Energy monitoring
- Sub-metering
- Control
- Billing

Self Healing Networks

Full Emergency Ballast
Testing & Reporting

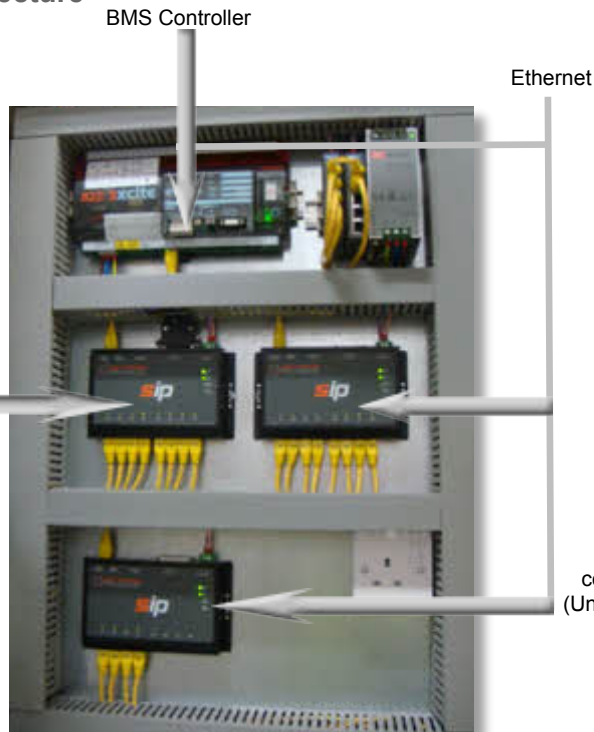


Example System Architecture

Product Codes:

SIP/4/DALI (4 DALI loop SIP)
SIP/8/DALI (8 DALI loop SIP)

Direct web control
for stand alone option



3 x master SIP's
controlling DALI networks
(Unlimited network capability)

Technical Specification:

- User Security via Login (up to 100 Users)
- 64 DALI devices per network, up to 300 meters using 1.5mm²
- Up to 8 DALI networks per SIP
- Up to 512 DALI devices per SIP
- Up to 15 light sensors per network at 15ma per sensor
- 20 Available digital inputs (SIP/8/DALI) for Dali Control
- 100 Timezones per SIP
- Modular, scalable system, unlimited Dali networks
- Cross network grouping and daylight saving
- Averaging of multiple sensors across multiple networks
- Internet Explorer/Mozilla Firefox compatible using Flash 8.5 plug-in
- SMTP E-mail Alarm reporting
- 10/100MBits Ethernet connection
- Optional Wi-Fi Connection

For a quotation, further information or to arrange a demo please contact: