

# S4i INTEGRATION BROKER - DOM-DALI-CBUS

## DOMESTIC - CASAMBI (DALI) - CBUS INTEGRATION (local control only - No Cloud connection required )

### SINGLE CBUS NETWORK

#### S4i INTEGRATION BROKER (IB)

- S4i Integration Broker is a licenced software application installed on a Host server of your choice, to provide interactions between independent applications at the application-logic level. The Broker, with appropriate licences can facilitate a number of different integrations simultaneously

#### DOMESTIC - CASAMBI (DALI) - CBUS INTEGRATION

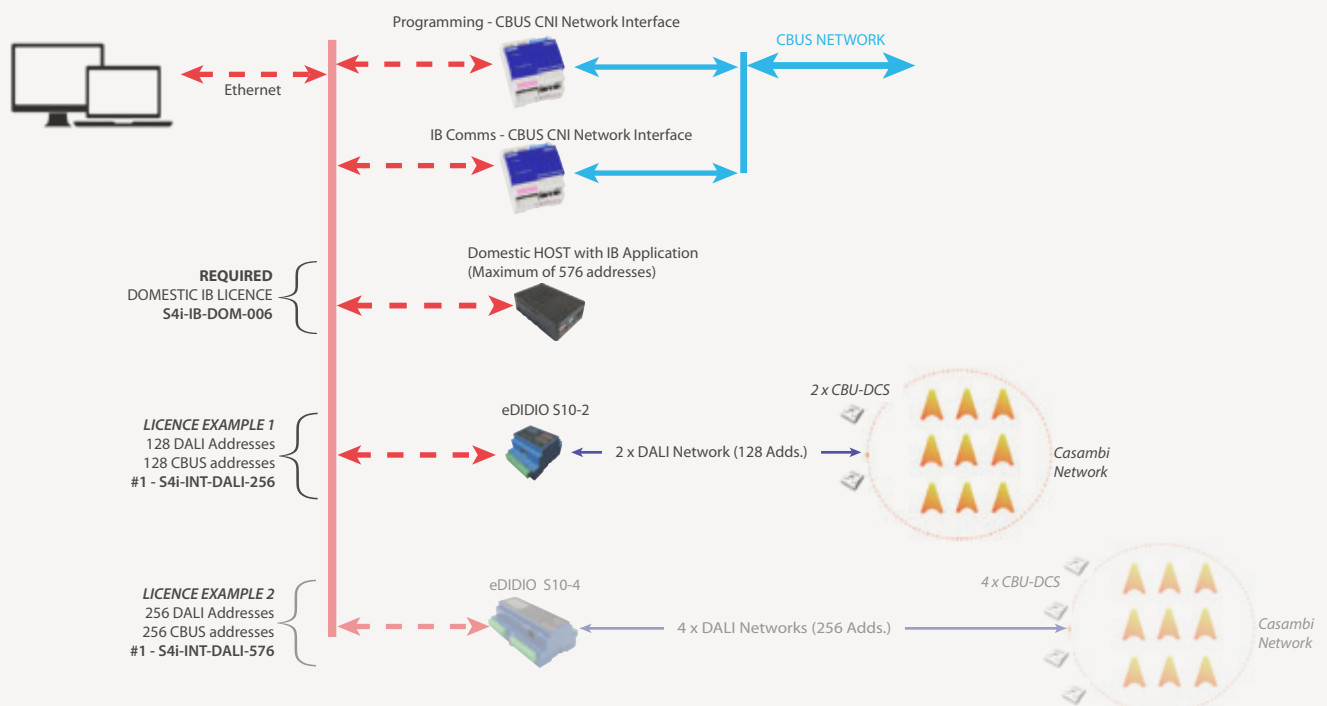
- Provides seamless integration between a Casambi lighting network and a single Cbus lighting control network without the use of Casambi Cloud Service
- Integration provides local control only of Casambi lighting - no permanent Internet connection is required for control operation.
- Solution does not rely on Casambi Cloud services to operate - No permanent Internet connection is required for control operation
- Licence activation and renewal requires an Internet connection

*Note the Casambi App. can operate Casambi lighting simultaneously with CBUS updating status correctly*

- The benefit of this solution can be seen when high security is required and permanent Internet is not possible, or as a fail-safe method of maintaining control of lighting when Internet connections are unreliable

### TYPICAL DOMESTIC IB and LIGHTING LICENCE USAGE for CASAMBI to CBUS INTEGRATION

*supports 6 Integration Licences and up to 576 Lighting Channels*



## REQUIREMENTS

IB Licence for Host processor - (Domestic IB Licence supports up to 6 Integration licences (#1, #2, #3 --- #6)

- Lighting Integration Licence to the total number of channels for both CBUS + Casambi (DALI)  
(Maximum of 576 Lighting addresses supported)

## LICENCING

- Select Domestic IB Licence for this Solution
- Select Lighting licence to the nearest number of TOTAL channels required for integration to DALI & CBUS  
Note RGBW requires 4 or 5 channels (RGBW+dim or HSV+dim) to operate and TW (Tuneable White) requires 2 Channels (TC+dim)

**NOTE:** DO NOT EXCEED the total number of Integration Licences available in the IB Licence (max. 6)

### LICENCE OPTIONS

**S4i-IB-DOM-006**

### TYPE

- DOMESTIC IB Licence - supports up to 6 Integration Licences

**S4i-INT-LIGHT-064**

- DALI Integration Licence - supports up to 64 DALI addresses

**S4i-INT-LIGHT-128**

- DALI Integration Licence - supports up to 128 DALI addresses

**S4i-INT-LIGHT-256**

- DALI Integration Licence - supports up to 256 DALI addresses

**S4i-INT-LIGHT-576**

- DALI Integration Licence - supports up to 576 DALI addresses

## CONTROL FUNCTIONS

- Lighting control functionality is dependant on;
  - a) Casambi DALI DCS Gateway internal capabilities
  - b) DALI Gateway/s used to connect DALI Lines to the IB
- Please refer to S4i Gateway Function Matrix datasheet for details of recommended units

## RECOMMENDATIONS:

### Domestic Host processors

- Raspberry Pi 4 8GB
- Apple Mac Mini M1 (8GB - 256GB)
- CPU: Intel Celeron J1900 X86\_64, 4+ Cores, RAM: 8GB+, SSD: 128GB+ - W10 IoT Enterprise
- Intel NUC 8 RUGGED FANLESS, CEL-N3350, 4GB, 64GB - W10 IoT Enterprise 2019 LTSC

### DALI/Ethernet Gateway

- Casambi CBU-DCS - Casambi Dali gateway per DALI network
- Control Freak - eDIDO S10 Series DALI controller/s - DALI Ethernet  
(<https://creativelighting.com.au/index.php/ethernet-dali-dmx-controller-edidio/>)
- ADFWeb - HD67845-B2 DALI / Modbus TCP Slave Converter (no RGBW or TW)
- CBUS CNI Ethernet Gateway - IB Comms

## CONDITIONS:

- S4i Integration Broker Solution is a software solution only
- NO hardware is SOLD by S4i Solutions - (Sourcing and purchasing of recommended hardware is the sole responsibility of the integrator)
- S4i only recommends hardware that has been tested
- S4i takes no responsibility for IB Solutions running on unrecommended hardware
- S4i does NOT provide support for the design, setup, configuration or operations associated with;
  - Casambi hardware & networks
  - Dali hardware & networks
  - CBUS hardware & networks
  - Ethernet hardware & networks