

# S4i INTEGRATION BROKER - COM-CAS-S4iUSB-CBUS

## COMMERCIAL LIGHTING EXAMPLE

### CASAMBI with S4i USB Gateway + S4i IB to CBUS INTEGRATION (local control only - no Casambi Cloud Service)

#### SINGLE CBUS NETWORK

#### S4i INTEGRATION BROKER (IB)

- S4i Integration Broker is a licenced software application installed on a Host processor 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. No proprietary hardware, BYOD, multi-platform and zero code.

#### COMMERCIAL - CASAMBI to CBUS INTEGRATION

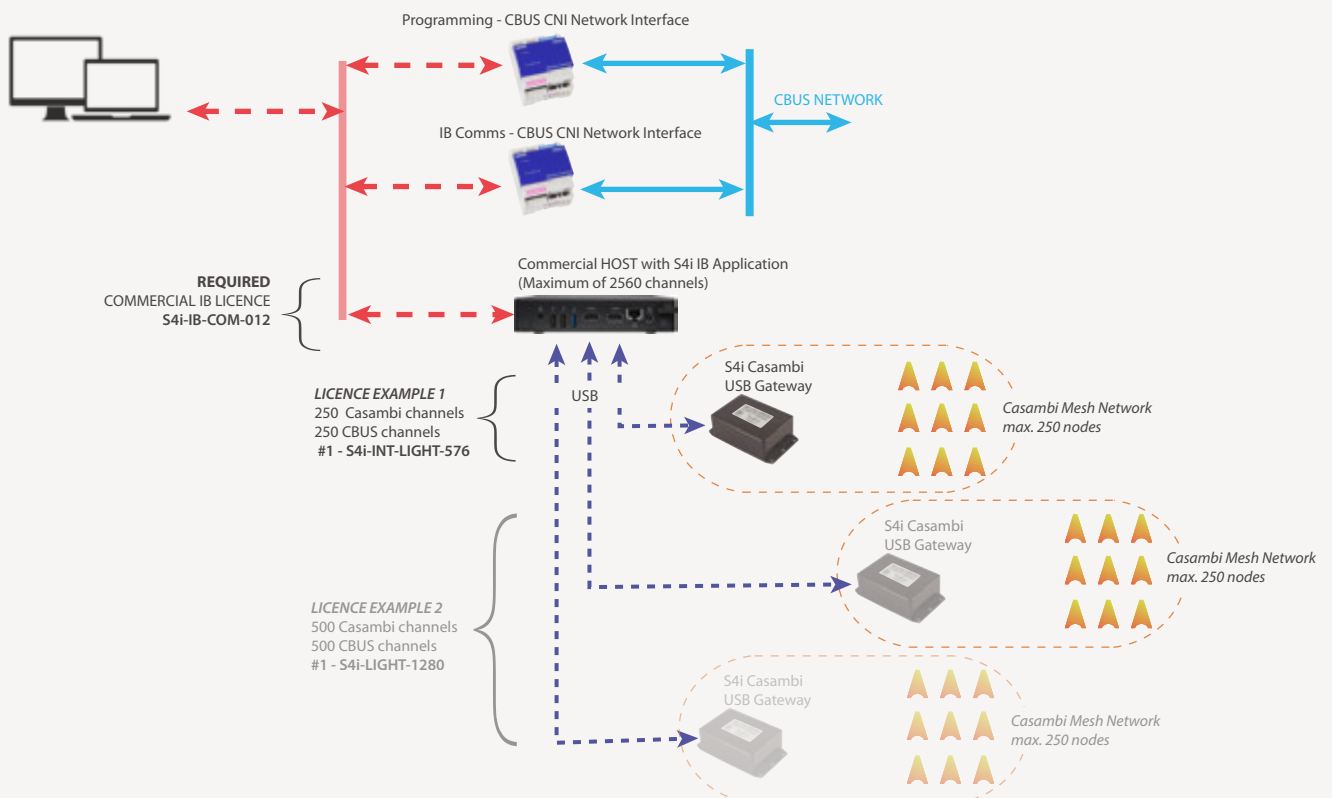
- Provides seamless integration between a Casambi lighting network via S4i Casambi USB Gateway, an S4i IB and a single CBUS lighting control network without the support of Casambi Cloud Services
- Integration provides local bi-directional control of Casambi lighting with accurate channel status
- The 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 Dynalite updating status correctly*

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

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

*supports 12 Integration Licences and up to 2560 Lighting Channels*



## REQUIREMENTS

- IB Licence for Host processor - (*Commercial IB Licence supports up to 12 Integration licences (#1, #2, #3 --- #12)*)
- Lighting Integration Licence to the total number of channels for both Casambi + CBUS systems  
(*Maximum of 2560 Lighting channels supported*)

## LICENCING

- Select Commercial IB Licence for this Solution
- Select Lighting licence to the nearest number of TOTAL channels required for both CASAMBI & CBUS systems  
*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. 12)

## INTEGRATION LICENCE OPTIONS

### TYPE

|                    |   |  |
|--------------------|---|--|
| S4i-IB-COM-012     | - | COMMERCIAL IB Licence - supports up to 12 Integration Licences |
| S4i-INT-XAPI-001   | - | 3rd Party Control Integration API - S4i XAPI Licence           |
| S4i-INT-LIGHT-064  | - | Lighting Integration Licence - supports up to 64 channels      |
| S4i-INT-LIGHT-128  | - | Lighting Integration Licence - supports up to 128 channels     |
| S4i-INT-LIGHT-256  | - | Lighting Integration Licence - supports up to 256 channels     |
| S4i-INT-LIGHT-1280 | - | Lighting Integration Licence - supports up to 1280 channels    |
| S4i-INT-LIGHT-2560 | - | Lighting Integration Licence - supports up to 2560 channels    |

## CONTROL FUNCTIONS

- Lighting control functionality is dependant on;
  - a) Casambi internal capabilities
  - b) Gateway used to connect the IB
- Please refer to S4i Gateway Function Matrix datasheet for more details details
- XAPI - Application Programming Interface capable - Licence per IB applicable

## RECOMMENDATIONS:

### Min. Commercial Host processor

- Apple Mac Mini M1 (8GB - 256GB)
- TBOX-12310 – Industrial Intel Celeron J1900 fan-less Box PC - Win10 IoT Enterprise 2019 LTSC
- CPU: X86\_64, 4+ Cores, RAM: 16GB+, SSD: 256GB+ - Win10 IoT Enterprise
- CPU: X86\_64, 4+ Cores, RAM: 16GB+, SSD: 256GB+ - AlmaLinux OS® 8.5 software (64-bit version) or greater

### Gateways

- S4i Casambi USB Gateway
- CBUS CNI Ethernet Gateway - IB Comms

## CONDITIONS:

- S4i Integration Broker (IB) Application is a software solution only
- 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
  - Dynalite hardware & networks
  - Ethernet hardware & networks