

S4i INTEGRATION BROKER - DOM-CAS-S4iUSB-CBUS

DOMESTIC/STARTER 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 required, BYOD, multi-platform and zero code.

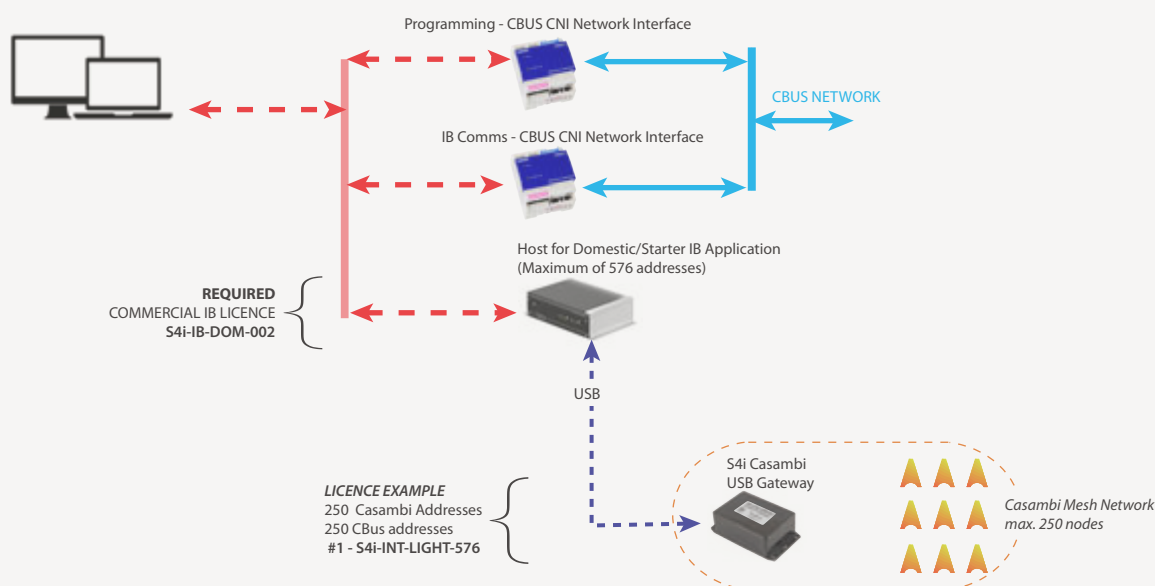
DOMESTIC - CASAMBI to DYNALITE INTEGRATION

- Provides seamless integration between a Casambi lighting network via an 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 CBUS 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 DOMESTIC/STARTER 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/Starter IB Licence supports up to 6 Integration licences (#1, #2, #3 --- #6)
- Lighting Integration Licence to the total number of channels for both Casambi + CBUS systems
(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 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. 6)

INTEGRATION LICENCE OPTIONS

TYPE

S4i-IB-COM-006	-	Domestic/Starter IB Licence - supports up to 6 Integration Licences
S4i-INT-LIGHT-064	-	Lighting Integration Licence - supports up to 64 addresses
S4i-INT-LIGHT-128	-	Lighting Integration Licence - supports up to 128 addresses
S4i-INT-LIGHT-256	-	Lighting Integration Licence - supports up to 256 addresses
S4i-INT-LIGHT-576	-	Lighting Integration Licence - supports up to 576 addresses

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

RECOMMENDATIONS:

Domestic/Starter Host processor

- Raspberry Pi 4 8GB
- Intel NUC 8 RUGGED FANLESS, CEL-N3350, 8GB, 64GB - Win10 IoT Enterprise 2019 LTSC
- TBOX-12310 – Industrial Intel Celeron J1900 fan-less Box PC - Win10 IoT Enterprise 2019 LTSC
- Apple Mac Mini M1 8GB
- CPU: X86_64, 4+ Cores, RAM: 8GB+, SSD: 256GB+ - Win10 IoT Enterprise
- CPU: X86_64, 4+ Cores, RAM: 8GB+, SSD: 256GB+ - AlmaLinux OS® 8.5 software (64-bit version) or greater

Gateways

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

CONDITIONS:

- S4i Integration Broker (IB) 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