

**System overview**

One-Connect-Plus™ ‘Casambi’ products enable wireless communication with a remote DALI emergency test system without the need for additional hardware or traditional DALI bus wiring.

Our Casambi Wireless emergency products are equipped with Casambi’s proven 2.4GHz radio mesh technology and once paired with the remote gateway, are able to communicate with virtually any existing DALI emergency lighting test system as if it were wired.

**Features**

- > Wide range of existing One-LUX emergency solutions now available One-Connect-Plus enabled
- > Built-in radio node eliminates the need for extra components and wiring in the luminaire
- > Emergency products are easily paired using the existing Casambi App
- > Easy upgrade for existing luminaires without a change of layout
- > Easily view the luminaires signal strength and identify emergency devices from within the Casambi App
- > Product endorsed and tested by Casambi
- > Designed and manufactured in Great Britain



Omni-LED with embedded Casambi radio

Common Technical Data	
One-LUX Product Code Modifier	/CW
Wireless Technology Provider	Casambi
Wireless Technology	2.4GHz Mesh
Typical maximum range between luminaires (Line of sight)	50m
Emergency test system protocol	DALI
Emergency devices per gateway	64



Casambi to DALI Gateway 'OC/CAS/GTWY'

One-Connect-Plus enabled products	Application	Emergency Power	Lamp Voltage Range	Product Web Page
OC/CAS/GTWY	Casambi to DALI Gateway. One needed per 64 emergency devices	--	--	<a href="#">--</a>
Omni-LED	Internal conversion module range	2-4W	12-200V	<a href="#">OMNI-LED LFP</a>
RBC	IP65 capable remote box. Ideal for Highbay conversions	2-4W	12-200V	<a href="#">LED-COMPACT REMOTE</a>
RBF	Articulated remote solution where ceiling access is restricted	2-4W	12-200V	<a href="#">OMNI-LED FLEXI</a>
Solo	Stand alone recessed luminaire	1.5W	3V	<a href="#">ONE-LED SOLO</a>
Solo Surface	Stand alone surface mounted luminaire	1.5W	3V	<a href="#">SOLO SURFACE</a>
Exit Bulkhead	Stand alone surface mounted luminaire	2.8W	--	<a href="#">BULKHEAD</a>
Exit Blade	Stand alone surface mounted or recessed luminaire	1.2W	--	<a href="#">BLADE</a>
Exit Box	Stand alone surface mounted luminaire	1.2W	--	<a href="#">BOX</a>

## INSTALLATION &amp; OPERATION

**Disclaimers**

One-Connect-Plus Casambi emergency products have been designed and manufactured to comply with the requirements of applicable standards.

Operation beyond the parameters specified in this document and associated standards may result in reduced performance and ultimate premature failure, with the warranty made void. It is the users responsibility to ensure full compatibility of the One-LUX emergency product for the intended application and for compliance of the emergency conversion to relevant Standards. The specifier/ system designer should follow the luminaire manufacturer's specifications and be aware of the environment to which the luminaire and these components are used and ensure compatibility of One-LUX products with other components in the lighting/ DALI system.

One-Connect-Plus Casambi emergency products should be installed and operated according to instructions and limitations supplied within this document in addition to those supplied with the relevant product. Please contact our Technical department if you are in any doubt.

**Installation & Setup**

One-Connect Plus operates on the 2.4Ghz band, so consider and test effects of other nearby RF sources, which may impair performance of the Casambi mesh network.

Install One-LUX One-Connect Plus equipped emergency devices within radio range of at least one other One-Connect Plus device which must include a gateway. Radio range is considered 50m maximum (line of sight) in an open area. For indoor use, this may reduce to 25m or less, so make allowance for attenuation of signals needing to pass through walls, floors, metal structures etc. Further guidance on the Casambi mesh network and system configuration can be found at [www.casambi.com/support](http://www.casambi.com/support)

Each One-Connect Plus gateway is to be connected to a single DALI bus of a DALI hub and no other DALI devices are to be wired to the same DALI bus.

Each One-Connect Plus gateway is to be paired with a maximum of 64 x One-Connect plus emergency devices. This is limited by the DALI bus.

On the Casambi network, each One-Connect Plus gateway is to be paired with One-Connect plus emergency control gear by One-LUX only. Mixing of different device types and/or none-One-LUX equipment on the emergency Casambi to DALI mesh is not recommended or supported.

**1) One-Connect Plus DALI gateway.**

Each One-Connect Plus gateway should be wired to a pair of DA/ DA terminals on the emergency test systems DALI hub. The One-Connect Plus gateway is powered by the DALI bus, so no other connections to the gateway are needed. The gateway can be mounted and wired remotely from the DALI hub if needed in an optimum location with a maximum cable of distance 300m. Avoid mounting the gateway inside or near metal enclosures as they will shield and restrict radio signal strength and/ or direction. Once DALI bus power is available to each One-Connect Plus gateway, they will be discoverable in the Casambi app.

**2) Pairing emergency devices with a One-Connect Plus DALI gateway.**

If not already available, download and install the Casambi app on either an IOS or Android device. Once the One-Connect Plus emergency devices and are powered on, they will also be discoverable in the Casambi app. From within the Casambi app, create a new Casambi network to be used for emergency devices only.

**Important!** A new casambi network will need to be created for each One-Connect Plus gateway/ DALI bus on the test system hub(s).

Once the required network(s) are created, simply add One-LUX emergency devices and a single gateway to each Casambi network as required. Ensure emergency devices are added to the same Casambi network as the gateway/ DALI bus that you wish to control them with. Advance planning is highly recommended.

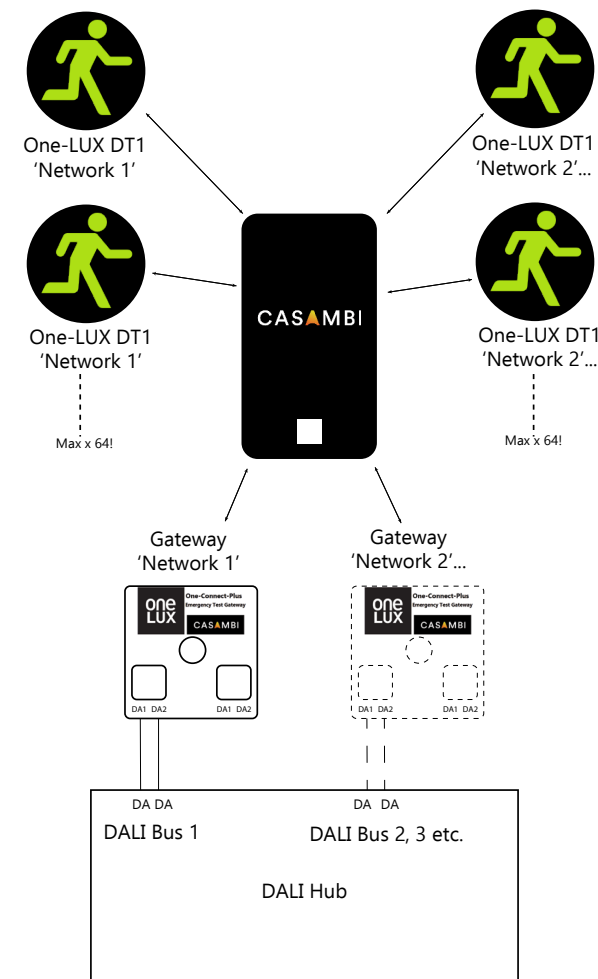
To assist the setup process, One-LUX emergency devices will respond to the 'Identify' command which can be initiated by selecting a device from the 'Nearby device' tree within the Casambi app.

**3) Gateway setup.**

From the 'Gateways' tab in the 'more' screen of Casambi app, select each One-Connect Plus gateway and scroll to 'PARAMETERS' section to adjust 'DT1 status cycle' to something between 60s and 'DT1 data refresh' to 1N cycles.

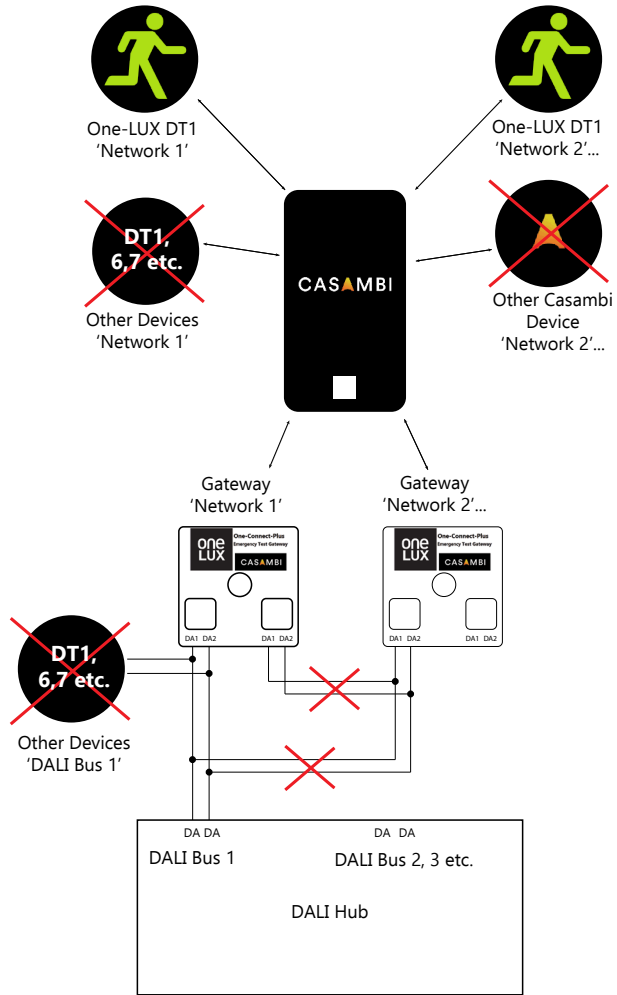
**4) DALI hub setup.**

Once the emergency devices and gateways are paired with each other in the Casambi app, the emergency devices should become available in the DALI emergency test application and associated to the correct DALI bus. From here they can be commissioned as per a normal wired DALI system.

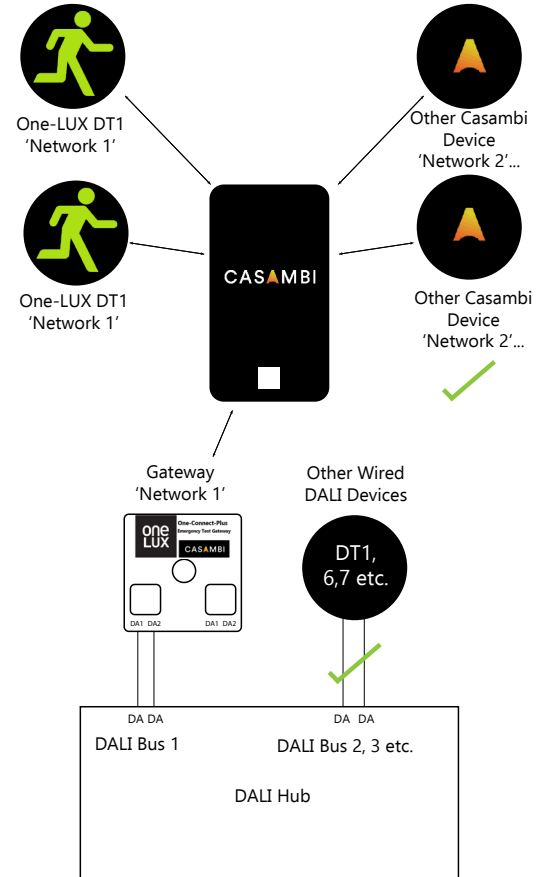


Correct configuration of devices for wireless DALI emergency

INSTALLATION & OPERATION



Incorrect configuration examples if using mixed devices



Correct configuration example if using mixed devices

Product specifications may be subject to change without prior notice.