

# Casambi Bluetooth controls



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### Casambi intro

Casambi is an advanced lighting control solution based on Bluetooth Low Energy (BLE). BLE is a state-of-the-art wireless technology and the only low power wireless technology in all modern smartphones, tablets and even smart watches, making it the only mainstream and future proof low power radio technology in the world.

Bluetooth Low Energy was developed at Nokia Research Center where the founders of Casambi Technology Oy worked. That's why Casambi has had the unique advantage in realising the potential of Bluetooth Low Energy early on. Casambi started the development of the solution before there were any Bluetooth Low Energy devices on the market. Casambi now has the most advanced BLE based lighting control solution in the market, including a robust, high performance mesh networking technology. Casambi technology can be integrated into luminaires, LED-drivers and even within LED-modules or bulbs, creating an optimal solution in terms of ease of installation and functionality with minimal additional hardware and deployment costs.

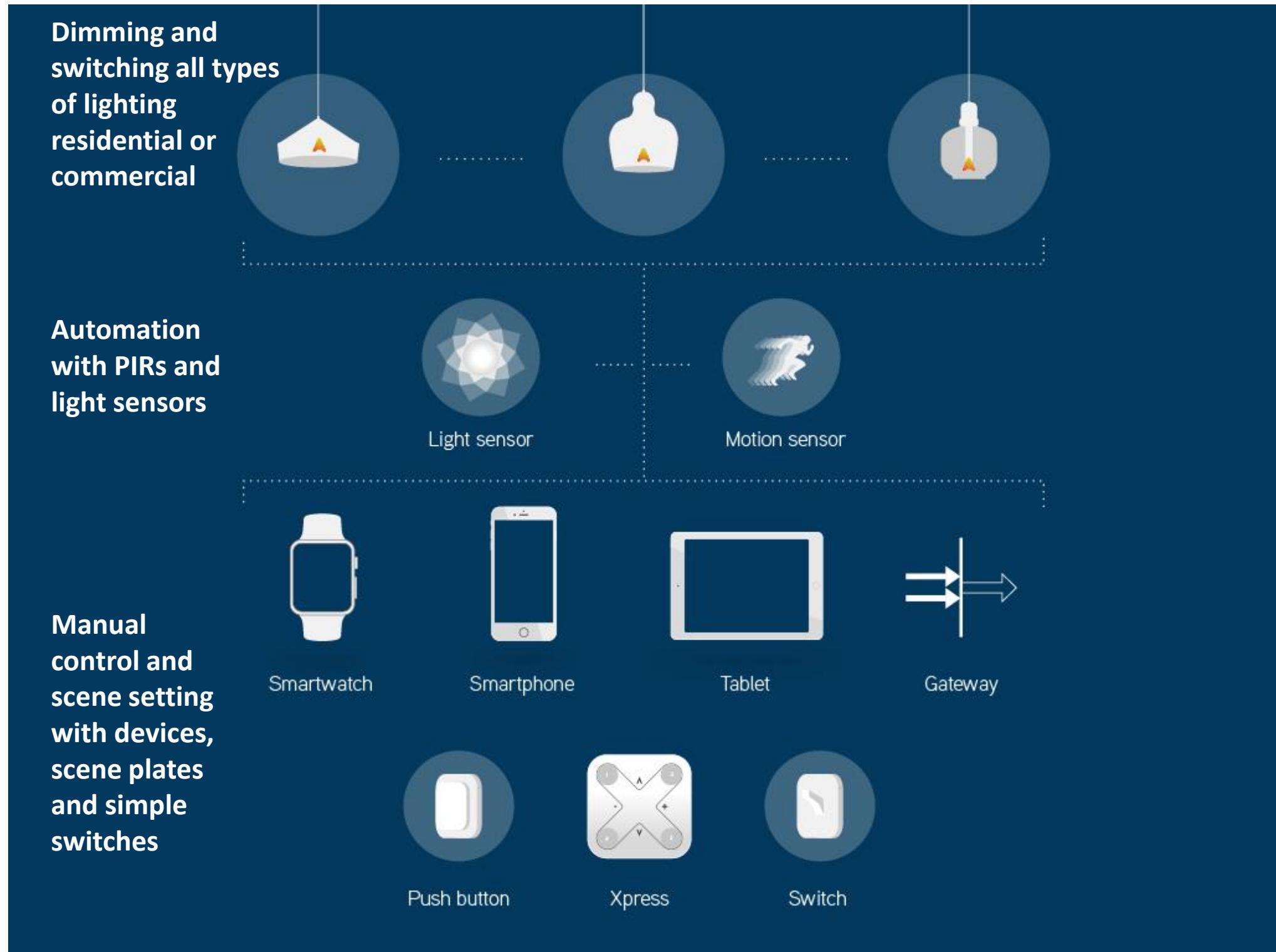
**Simply put with Casambi you are not locked into one manufacturer for hardware so parts are easily accessible, the software is free and commissioning should be very cost effective.**

Silent Lighting is a community member of the DiiA. We use the DALI logo where DALI compliant components are used in our products  
<https://www.digitalilluminationinterface.org/membership/member-companies.html>





Diagram detailing the simple but effective power of Casambi technology





## Smart

The Casambi devices are smart on their own. All the intelligence is replicated in each node leaving no single point of failure. The system itself is in constant consensus based synchronisation.

## Connected

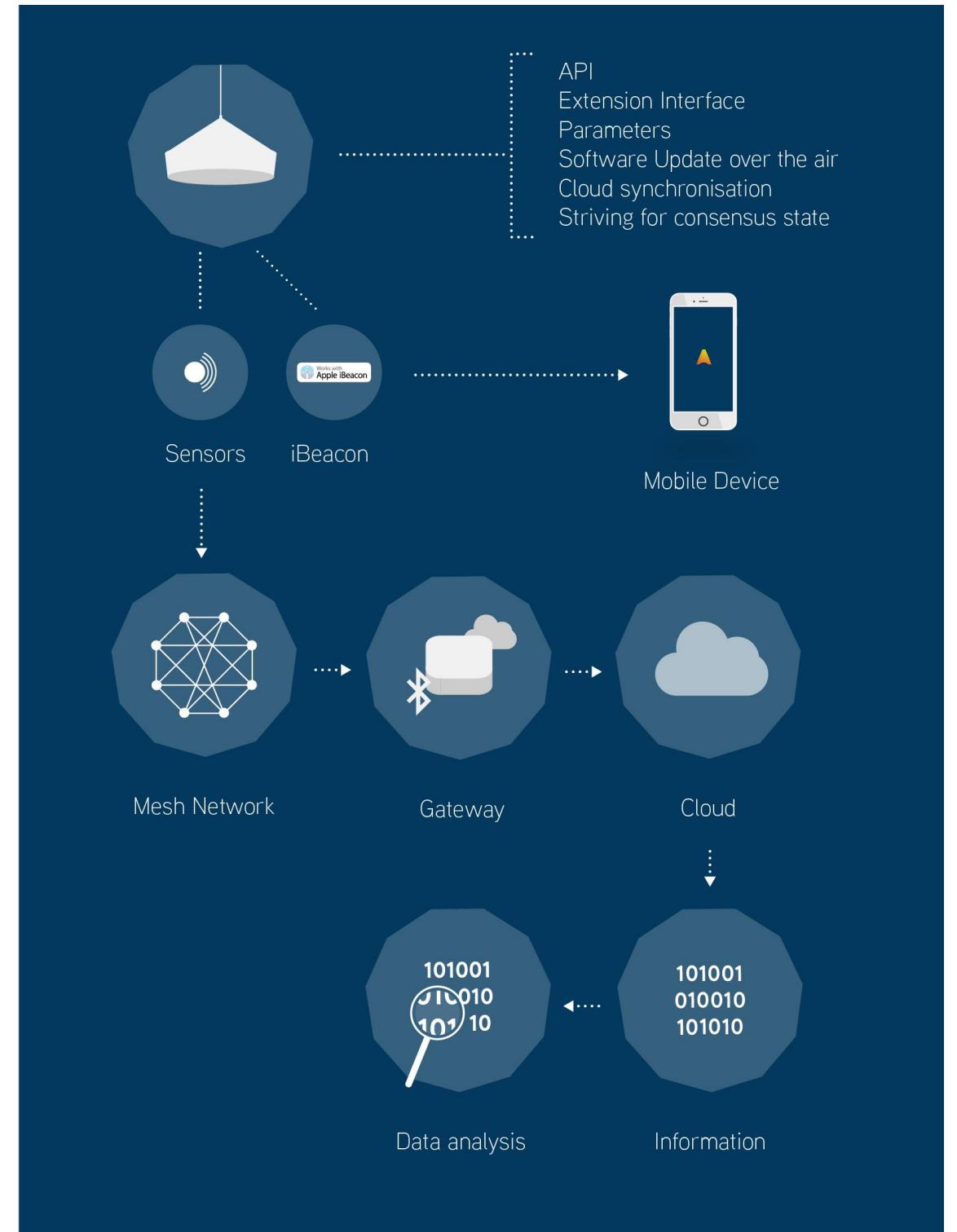
The Casambi devices are connected when needed. An Internet connection is not necessary for general operation and day to day functionality. Bluetooth Low Energy is already implemented in smartphones and tablets, so communication can be done without any additional gateways. The speed of connectivity from a smart device and the Casambi devices are fast and seamless, open the App and you are connected to the system.

## User friendly

The system is intuitive. When connecting for the first time nodes are automatically pairing. The system can be used and modified by anyone, no commissioning experts are needed.

## Wireless

The Casambi network is based on the Bluetooth Low Energy protocol, which is the most energy efficient and future proof of wireless technologies.

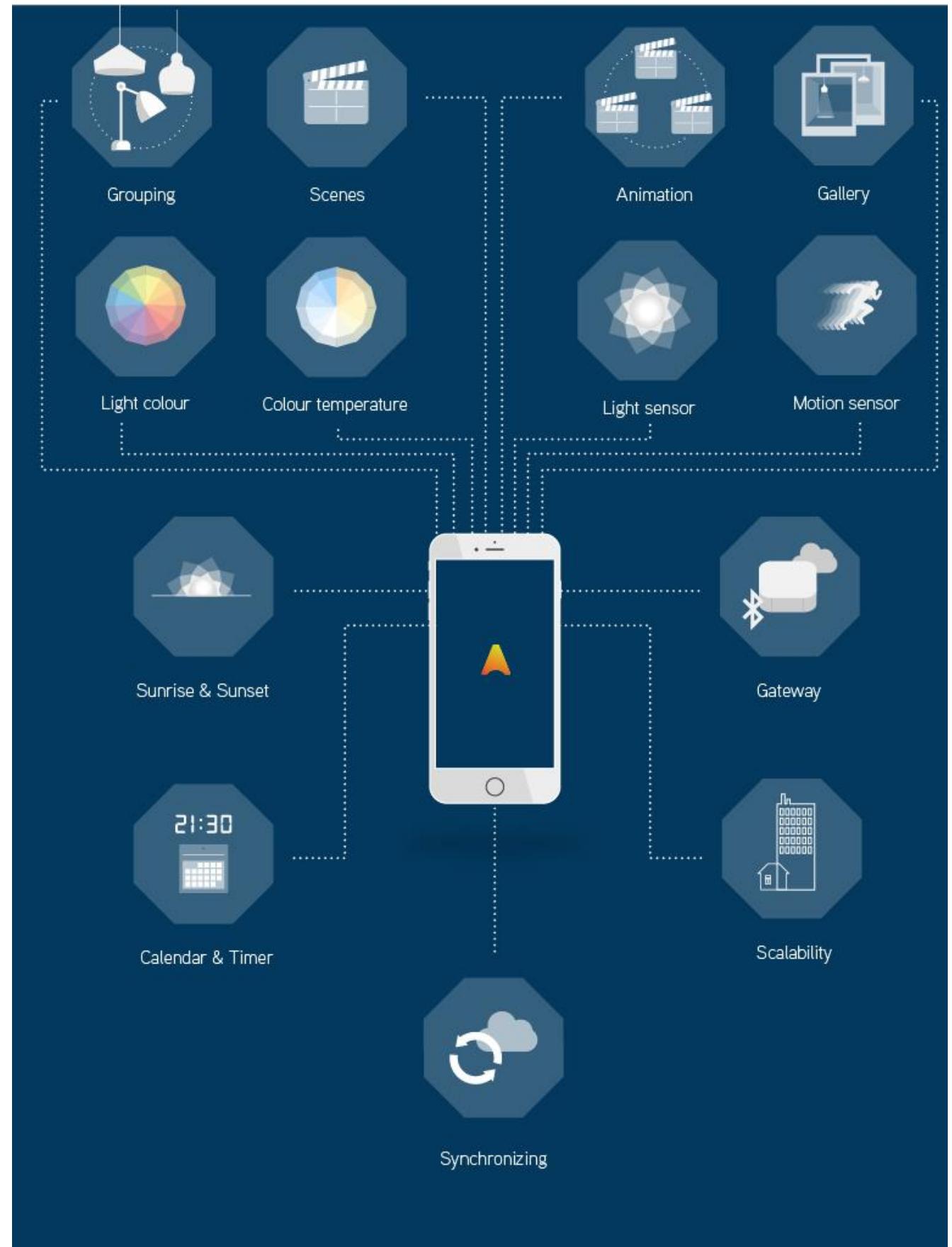




To access all the functionality of the Casambi networks an app is needed. The app can be downloaded for free from Apple App Store or Google Play Store with the name *Casambi*. The Casambi app is compatible with following devices; iPhone 4S or later, iPad 3 or later, iPod touch 5th generation or later as well as Android 4.4 KitKat or later devices with full Bluetooth 4.0 support. The support for Apple Watch requires iOS9 and watchOS2.

The app is intuitive and self explanatory. Each user screen and setup screen in the app has “in screen” help without any interruption to the setup process or the user’s interaction.

The APP is extremely easy to use and has a host a features detailed on the graphic opposite.



## Casambi Hardware options

There are plenty of manufacturers making Casambi enabled devices which allows the system to be supported well into the future. These following pages are just a sample of what is available in 2019.

[www.silent.design](http://www.silent.design)



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**CBU-A2D**

Casambi Technologies

Bluetooth controllable 2ch 0-10V/DALI controller with a universal 100-277 VAC input voltage range. Can also be connected to a DALI sensor for presence and/or daylight harvesting functions.

**CBU-ASD**

Casambi Technologies

Compact unit to be embedded along with a 0-10V or DALI compatible LED-Driver into your lighting fixture.

**CBU-ASR**

Casambi Technologies

Two channel 0-10V controller for dimmable LED loads and luminaires. Supports sensor input that can used with presence or daylight sensors.

**CBU-DCS**

Casambi Technologies

CBU-DCS is a Bluetooth controllable, Casambi enabled DALI controller. It can be used with a DALI sensor for presence detection or daylight harvesting, or it can be used for controlling DALI drivers that have an integrated DALI bus power supply.

**CBU-PWM4**

Casambi Technologies

Four channel PWM dimmer for LED strips and constant voltage LED modules

**CBU-TED**

Casambi Technologies

Compact, high quality trailing edge dimmer for dimmable mains voltage powered loads.

**Xpress**

Casambi technologies

A wireless, battery powered switch that can be configured via the Casambi app.





## Casambi Ready Drivers



### 800578

Arditi GmbH

Casambi Ready LED driver equipped with dip switches to change between 350/500/700mA as well as 12VDC and 24VDC.



### CHROMOFLEX Casambi

Barthelme LED Solutions

The CHROMOFLEX Casambi communicates via Bluetooth Low Energy, can be networked with all CASAMBI compatible devices and has four freely assignable push-button inputs.



### DLCM Range

ELT

Range of Bluetooth dimmable control gears up to 50W. Class II and independent use. IP20.



### LCM 25/40/60BLE

MEAN WELL

MEAN WELL provides for a range of Casambi Ready Drivers supplied with dip-switches for the selection of the output current.



### Multipower drivers

TCI

A range of Casambi Ready drivers with selection of the output current.



### PowerController V2 Control Unit Casambi

LUMITRONIX LED-Technik GmbH

Powerful and extremely flexible control unit with Casambi support for many luminaire types



### premium 2-channel Tunable White

Tridonic GmbH & Co KG

Independent dimmable constant current 2-channel LED Drivers



### premium 2-channel Tunable White

Tridonic GmbH & Co KG

Dimmable built-in constant current 2-channel LED Driver with DALI DT8



### premium Constant Current Range

Tridonic GmbH & Co KG



### premium Constant Voltage 24V Range

Tridonic GmbH & Co KG



### SSW60WCM

Vadsbo



### XLED4 CV Casambi LED Converter

MTC Elektronik GmbH



**808385 PWM4 in Waterproof**  
Arditi GmbH

Casambi PWM4 in Waterproof IP65 with connection cables for outdoor using.



**808698 CBU-TED in Waterproof**  
Arditi GmbH

Casambi CBU-TED in Waterproof IP65 with connection cables for outdoor using.



**ADC1248-4CH-CASAMBI**  
Dalconet

Four channel dimmer converter.



**BIG4**  
ES-SYSTEM

BIG4 consists of 16 controllers that allow wireless lighting management via Bluetooth technology. BIG4 is made up of the following controllers: Raptor, Total, Falcon and Viper. The Falcon and Viper controllers function as power supply units for constant voltage LED strips or as a PWM signal source for controlling LED modules equipped with current stabilization circuits.



**CASAMBI Module, IP20**  
Dress GmbH

Installation module Casambi with heat-shrink tubing for constant voltage 12 - 24 Vdc; 1 - 4 channels up to 480 W, for constant current 350/500/700 mA; 1 - 2 channels including button and sensor connections



**CASAMBI Module, IP20**  
Dress GmbH

Independent Casambi module in plastic housing for constant voltage 12 - 24 Vdc; 1 - 4 channels up to 480 W, for constant current 350/500/700 mA; 1 - 2 channels on request with button and sensor connections



**Converter 12V**  
BERTRONIC SRL

Convert 12Vdc to constant current 1 or 2 channels with optional dimming push button.



**Converter 24V**  
BERTRONIC SRL

Convert 24Vdc to constant current 1 or 2 channels with optional dimming push button.



**CRD300 UP Casambi Retrofit Dimmer**  
MTC maintronic GmbH

Digital leading edge and trailing edge phase dimmer with automatic load detection for 4-200VA. Controllable with Casambi BLE



**Dimmer 9A 2Ch**  
BERTRONIC SRL

One or two channel 9A Constant Voltage 12V - 24V - 28V - 48V



**Dimmer 9A 4Ch**  
BERTRONIC SRL

One, two, three or four channel 9A Constant Voltage 12V - 24V - 28V - 48V



**Dimmers**  
Arditi GmbH

A wide range of security class II Casambi Ready products.



**DLC1224-1CV-CASAMBI**  
Dalconet



**DLX1224-4CH-CASAMBI**  
Dalconet



**Electron DMR.733**  
Electron SA

DIN Rail Casambi ready trailing edge dimmer for controlling: Dimmable LEDs 230V Dimmable CFLs Dimmable Electronic transformers



**LD220WCM**  
Vadsbo

0-200VA wireless dimmer with momentary switch push button with astro time schedule features. Extremely small and suitable for wallbox installation.



**LIGA.air**  
Lichtteam AG

Constant voltage (12-24V) dimmers with one, two or three output channels.



**NDRIVE**  
Eulum Design

A range of dimmers and control modules for the US and European market.



**Optotronic OT BLE**  
OSRAM

Four channel constant voltage (12-24V) dimmer.



**Plug & Play - Dimmer**  
AIMOTION

Smart dimmer for luminaires with plug dimmer.



**Power dimmer 2ch**  
LEDsGO

Two channel constant voltage (12-24V) dimmer with push button support.



**Power dimmer 4ch**  
LEDsGO

Four channel constant voltage (12-24V) dimmer with push button support.



**VD220WCM**  
Vadsbo

Universal rotary dimmer for LED and other. 0 - 200VA, 2kW transient protection. Fits most common frame systems.



## Casambi Ready Switches



### Battery-free Bluetooth Low Energy switches (ODACE® compatible)

TRIO2SYS

Battery-free & wireless switches for BLE systems to customize with SCHNEIDER ELECTRIC's ODACE® frames & covers.



### Batteryless Bluetooth switch

Vimar

Batteryless switch for Bluetooth systems, to complete with cover plates/push buttons of Vimar offer



### Easyfit

EnOcean

A range of self-powered switches with different switch plate options, materials and color choices available.



### LIGA.air

Lichtteam AG

Push button coupler with four or six buttons, powered from 12-24V.



### LIGA.AIR.FERB.S

Lichtteam AG

Remote control with four preset buttons and four buttons for dimming and colour temperature adjustment. Works with 2 x AAA battery.



### LIGA.AIR.TAST4.240

Lichtteam AG

Small push button module, powered by 100 to 240VAC. Up to 4 fully isolated inputs from power-line. Low power consumption, only 0.2W. Extremely compact with the dimension 40 x 40 x 20mm.



### Mpress

Vadsbo

Mpress is an energy-extracting Bluetooth dimmer with one or several push buttons that can be paired to a Casambi network. Mpress can withstand at least 100,000 pushes and has a range of 20 meters. No power supply or wiring is needed to send control signals to selected luminaires. The device may be mounted on any surface with powerful double-sided tape or over the box if desired. Mpress comes in two alternatives: Signal White adapted for Elko frame system and Pure White adapted for Exxact frame system



### Neo Lighter

PLH

Stylish portable keypad for operation control with feedback led; has three buttons and shake option.



### Push button interface

LEDGo

Battery powered push button coupler for up to four buttons.



### SC-TI-CAS

Scemtec

Push button module for up to four potential-free buttons.



### Wall Switch Controller

McWong

Wall switch controller suitable for indoor applications. [PSC-DM-WS-100-BLE-CB]



## Casambi Ready Sensors



**basicDIM Wireless Sensor 5DP**

Tridonic GmbH & Co KG

Ambient light dependent control and presence detection; wireless controllable with a Android / iOS smart device



**basicDIM Wireless Sensor 5DP 38rc US**

Tridonic GmbH & Co KG

For the North American market: Ambient light dependent control and presence detection; wirelessly controllable with a Android / iOS smart device.



**CBU-Sensor range**

Danlers Limited

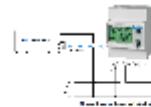
A wide range of occupancy and daylight sensors for different applications



**Cloud Power Meter 1Ph**

RBTechnik / Hydra

One Phase Mains power meters Casambi ecosystem compatible. Data are visible on Casambi App and on dedicated app retrieving them from Cloud to display and chart. Split core current sensor. No tools , easy installation



**Cloud Power Meter 3Ph**

RBTechnik / Hydra

Mono/ Three Phase Mains power meters Casambi ecosystem interface. The device can be connected to Modbus RTU compatible commercial power meters. Data are visible on Casambi App and on dedicated app retrieving them from Cloud to display and chart.



**HF & PIR Built-in Motion Sensor**

HYTRONIK

Compact design for built-in the luminaires, with option of PIR and microwave sensor head, high bay and low bay, office and industrial, circular and rectangular detection, up to IP 65. With extra "push" terminal, enable multiple function for push switch such as manual override, scenes recall, ect. Bluetooth module in the control base.



**LIGA.AIR.SP.240**

Lichtteam AG

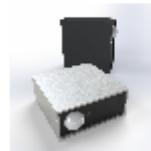
Compact occupancy and daylight sensor powered from mains or 12-24V. The extremely compact housing enables simple installation (25mm drilled hole) at any point in the room, e.g. in false ceilings and walls, and requires just a 230V power line or 12-24VAC/DC.



**LIGA.AIR.SP.BAT**

Lichtteam AG

Compact occupancy and daylight sensor powered with a Battery! The extremely compact design enables simple installation ( 25mm drilled hole ) at any point in the room, cabinet, walls, etc. Very small power consumption for long battery life!



**LIGA.AIR.SP.CUBE**

Lichtteam AG

Flexible compact occupancy and daylight Sensor. Powered with 2 AA Batterie for long duration! Light-Level and Presence-Detection is transmitted to the Casambi App. Alu Enclosure with size 70x70x30mm. Different colors possible from the case



**Microwave Bi-Level Compact Occupancy Sensor**

McWong

Compact microwave occupancy sensor suitable for indoor/outdoor applications. Supports 0-10V dimming. Specified for mounting heights up to 30 ft (9m). [PSC-BL-M-FC-DC0-BLE-CB]



**Microwave Bi-level Fixture Mount Occupancy Sensor**

McWong

Microwave occupancy sensor suitable for indoor/outdoor applications. Supports 0-10V dimming. Specified for mounting heights up to 30 ft (9m). [PSC-BL-M-FM-DC0-BLE-CB]



**Microwave Bi-level Remote Head Occupancy Sensor**

McWong

Remote microwave occupancy sensor suitable for indoor/outdoor applications. Supports 0-10V dimming. Specified for mounting heights up to 12 ft (3.5m). [PSC-BL-M-RT-DC0-BLE-CB]



**CableCup Atmos™**  
CableCup

With CableCup Atmos™ you can use your mobile devices to control your lamps. Atmos™ is a wireless dimmer that sits inside the ceiling rose.



**Casa Relais**  
ROPAG GmbH

The relay has 2 potential-free contacts. AC and DC loads can be switched within the specified limits. Furthermore, both contacts are independently controllable.



**CBU-Box**  
Holders Components

The CBU-box allows for a simplified installation and also ensures that safety is always maintained whilst installing a Casambi network. This products is compatible with Casambi CBU-ASD, Casambi CBU-TED and SwitchTech LD220WCM.



**Lampholder**  
Arditi GmbH

E27 lampholder with trailing edge dimmer.



**LIGA.AIR.2REL.240**  
Lichtteam AG

Power Relay Module, with 2 relays Relay with changeover switch max. 10Amp, Isolated from Power Input! Compact Size: 50x50x25mm



**LIGA.AIR.REL.12-24**  
Lichtteam AG

Power Relay Module, operating voltage 12-24 VDCC. Output Changeover relay for 240VAC max. 10Amp. Compact size (40 x 40 x 30mm)



**LIGA.AIR.REL.1T.240**  
Lichtteam AG

Power Relay Module, 100-240VAC, max. 10Amp. with isolated Input for 1 push button. Size: 45x30x25mm



**LIGA.AIR.REL.240**  
Lichtteam AG

Power Relay Module, 240VAC, max. 10Amp. Compact size (33 x 33 x 20mm)



**Plug & Play - Dimmer**  
AIMOTION

Smart dimmer for luminaires with plug



**Plug & Play - Sensor**  
AIMOTION

Smart presence and daylight sensor with plug adapter



**Plug & Play - Switch**  
AIMOTION

Smart plug adapter for luminaires and electrical appliances



**Sensor Track System**  
AIMOTION

Sensor for track systems



**Track adapter**  
AAG Stucchi

Casambi adapter for tracks (Controllable lighting fixtures: 64).



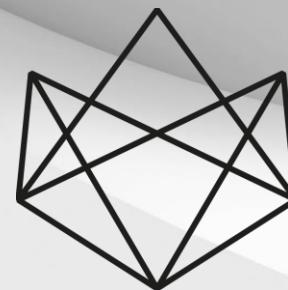
**Track adapter**  
AAG Stucchi

Casambi adapter for tracks (Controllable lighting fixtures: 3).



**Track adapter**  
Unipro

Casambi adapter for tracks.



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