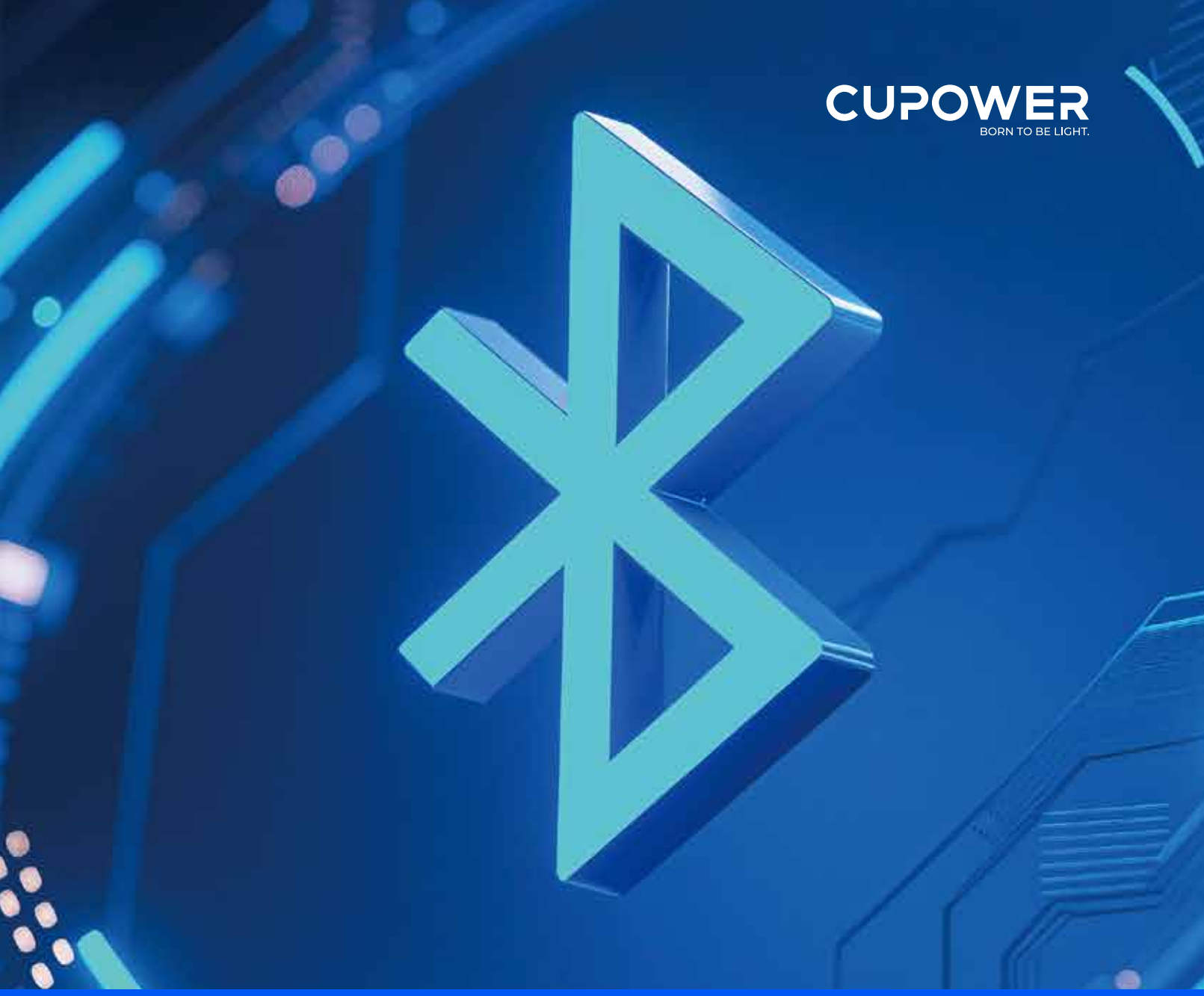


CUPOWER
BORN TO BE LIGHT.

SMART.
SCALABLE. SEAMLESS.

Control wireless lighting with
unparalleled precision

01

CUPOWER
Bluetooth-Mesh Platform

Harness the full potential of wireless building control with our advanced Bluetooth-Mesh platform. Designed for flexibility, reliability, and seamless integration.

Connectivity and Control – made Effortless

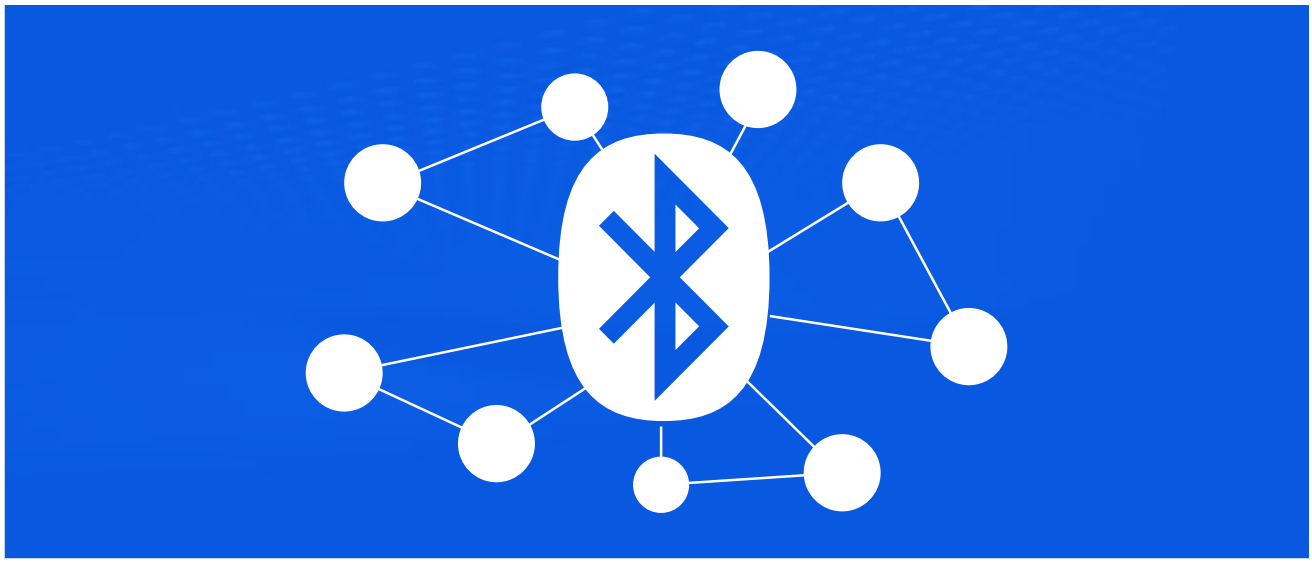
Bluetooth technology has long proven its reliability and simplicity in our everyday lives. So why not bring these advantages into the world of professional lighting?

At CUPOWER, we're unlocking the full potential of wireless communication. With our Bluetooth-Mesh platform, programming and commissioning are intuitive, fast, and completely cable-free.

Ideal for retail, small, mid-size to large lighting projects, and retrofit scenarios, our solution brings future-ready flexibility to any space.

Born to be light.

Why Our Platform?



Built for Manufacturers. Designed for the Future.

The CUPOWER Bluetooth-Mesh platform is more than just a connectivity solution - it's a strategic advantage.

Unlike single-system solutions, our platform is the first in the industry to support multiple leading ecosystems on one unified hardware base, drastically reducing complexity while expanding market reach.

One Platform. Maximum Flexibility. Seamless Integration.

The CUPOWER Bluetooth-Mesh platform is a groundbreaking solution for wireless lighting control, designed to simplify development, accelerate time-to-market, and offer unmatched flexibility for luminaire manufacturers. As the first multi-system Bluetooth-Mesh platform in the lighting industry, it supports up 4 leading control ecosystems: Casambi, INGY, MESHLE and Mymesh on a single, unified hardware base.

Key Benefits at a Glance

- Multi-System Ready: One platform, multiple ecosystems - no hardware changes required
- Unified Hardware: Reduced complexity, testing, and inventory needs
- Future-Proof Architecture: Easy integration of new systems and partners
- Optimal Signal Performance: External antenna ensures robust wireless communication - even in metal luminaires
- Broad Product Range: Compatible with linear, track, and compact drivers, plus DC/AC controllers
- Fast Setup via NFC: Intuitive programming with PC software or mobile apps
- Reliable & Backed: 5-year warranty for long-term confidence

Seamless Integration into Smart Building Environments

Whether you're addressing retrofit projects, commercial installations, or smart building integrations, the CUPOWER platform helps you do more with less: faster, smarter, and with greater reliability.

Key Benefits

Redefining Wireless Lighting Control

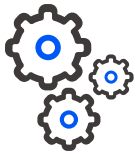
Our Bluetooth-Mesh platform delivers unmatched flexibility, efficiency, and performance - empowering OEMs to meet today's demands and tomorrow's innovations with one unified solution.

1st

The First Multi-System Mesh Platform in the Lighting Industry

We are the first to support four leading system partners - Casambi, INGY, MESHLE and Mymesh - on a single hardware platform.

- Enables OEMs to address a wide range of customer requirements without changing the hardware base



One Platform, Endless Efficiency

Thanks to unified hardware across all systems, the platform dramatically reduces complexity in design and manufacturing.

- Only a single EMC and thermal test is required, regardless of the software partner
- Simplifies design-in, validation, and technical release processes
- Accelerates time-to-market and reduces R&D costs

Open, Future-Ready Architecture

Our platform is built for evolution. New system partners can be integrated easily.

- Long-term flexibility for OEMs
- Investment protection in a fast-changing technology landscape

Optimal Wireless Performance with External Antenna

Signal quality is critical, especially in metal luminaires that block wireless communication. Our external antenna - available in different colours - ensures the best possible signal performance, with optional gaskets available to meet IP65 protection requirements.

- External antenna ensures strong, consistent signal quality - especially in metal luminaires
- Optional gaskets allow IP65 protection
- Reliable operation even in challenging installation environments

Fast, Intuitive Configuration via NFC

Configure drivers quickly using NFC - via PC or mobile app.

- No special tools required
- Set output current, CLO, min dim level, DC voltage and more - on site and in seconds

Broad Hardware Portfolio for Maximum Compatibility

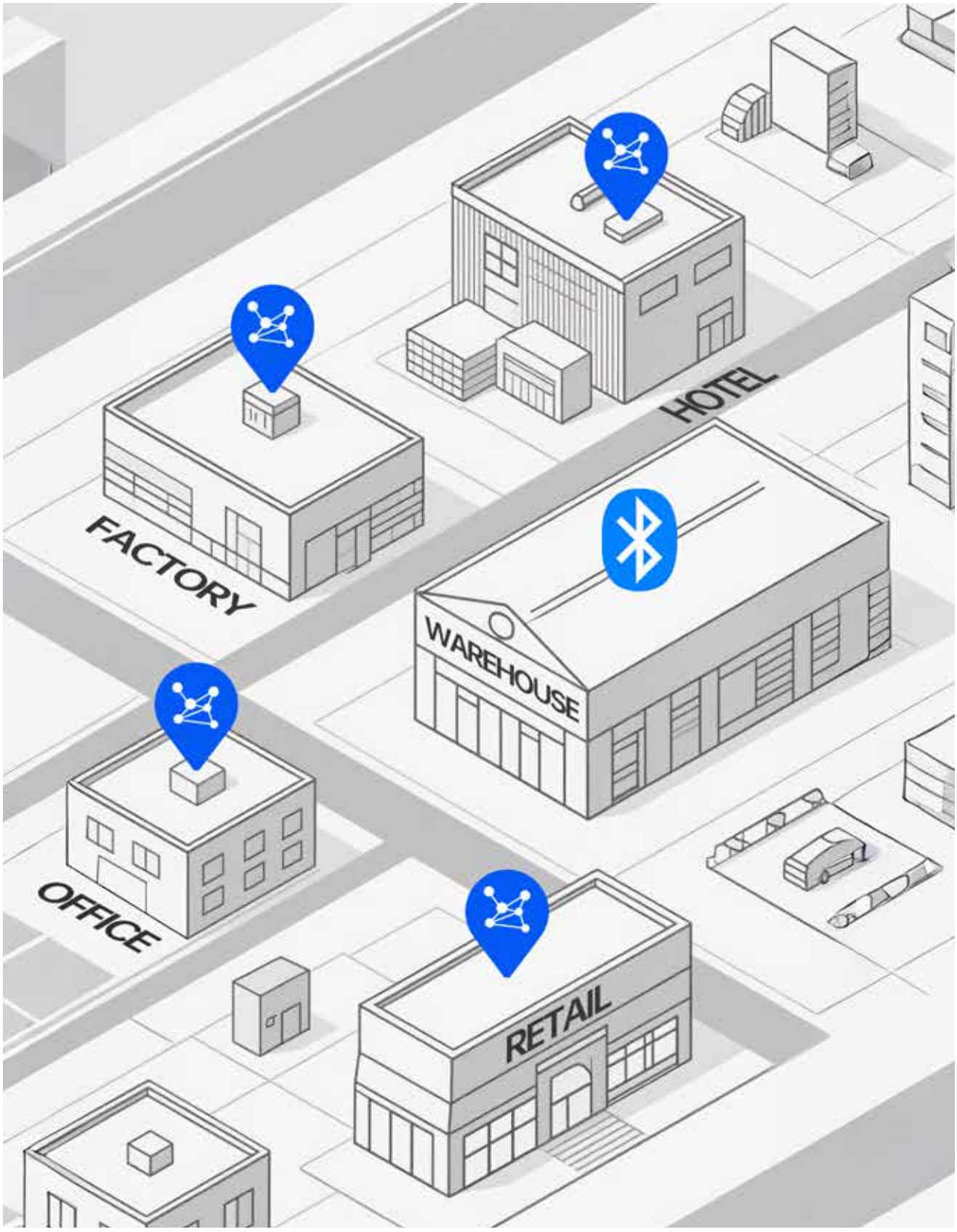
From compact to linear and track drivers, controllers and sensors - we support the widest range of applications.

- DC & AC Controllers enable smooth migration from DALI or 0/1-10 V to Bluetooth-Mesh

5-Year Warranty

Backed by a full 5-year warranty, our platform ensures long-term performance and peace of mind.

Use Cases – Where Innovation meets Application



Our multi-system Bluetooth-Mesh platform powers smart environments in a wide range of sectors.

Commercial Buildings

- Intelligent lighting for offices, retail, education, and hospitality
- Easy scene-setting, daylight harvesting, and presence detection

Industrial Facilities

- Scalable and robust communication in large or metal-heavy environments
- Supports automation in warehouses, production halls, and logistics centers

Smart Automation

- Seamless integration with sensors, building automation systems, and IoT platforms
- Enables smart scheduling, real-time monitoring, and asset tracking

Energy Efficiency

- Reduce energy consumption through dynamic lighting control
- Occupancy-based dimming, daylight control, and central monitoring options

Retrofit Projects

- Cost-effective modernization of existing lighting systems
- No need for new wiring – ideal for protected or complex environments

02

Our Partners

A Strong Network for Stronger Solutions

Our open architecture ensures seamless integration and future-readiness, customizable for Software designed by OEM.

A Strong Network for Stronger Solutions – Our Partners

At the heart of our platform lies unmatched flexibility. CUPOWER is the first Bluetooth-Mesh platform in the lighting industry to support multiple leading system partners, giving OEMs and lighting professionals the freedom to choose what fits best, without changing the hardware.

Our open architecture ensures seamless integration and future-readiness, customizable for Software designed by OEM (based on the Nordic chip 52840).

System Partner Overview

CASAMBI	INGY	MESHLE	mymesh powered by simac
• Pioneer in Bluetooth lighting control • Widely adopted in retail and commercial applications • Strong mobile app ecosystem	• Integrated lighting intelligence with building data insights • Strong focus on energy efficiency and facility management • Ideal for smart building platforms	• Scalable mesh for large industrial buildings • Centralized management and advanced analytics • Ideal for infrastructure and smart cities	• Scalable mesh for large industrial buildings • Centralized management and advanced analytics • Ideal for infrastructure and smart cities
www.casambi.com info@casambi.com	www.ingy.nl	www.meshle.com contact@meshle.com	www.mymesh.com info@mymesh.com

Need Help Choosing the Right Setup?

Compare partner technologies and select the best fit for your application.

Feature	Casambi	INGY
Focus Applications	Commercial, Residential, Outdoor (New + Retrofit)	Large commercial (hospitals, warehouses, offices), explosion-sensitive Areas
Communication Protocol	BLE and Casambi self-healing protocol	Wirepas
Certification	Bluetooth 5.3, DALI/DALI-2/D4i, ioXt-certified	–
Max Nodes per Network	250 per network / unlimited number of networks	1.3M (in a single mesh)
Infrastructure Required	None (Gateways optional for remote access)	Gateway optional, repeaters not needed
Registration Needed	No	No
Internet for Setup/Use	No (required only for cloud features)	Optional (cloud possible)
Security	Full encryption, ioXt-certified	128-AES
Third-Party Security Certificates	ioXt	Yes (Wirepas layer)
Data Hosting (Cloud)	Europe	Freely customizable (dozens of pre-integrated cloud services)
Lighting Control Products	LED Drivers, DALI controllers, modules, switches, sensors (partner-manufactured), 1000+ products	1000+ products
Network Topology	Proprietary Self-Healing Flooding-Mesh	Routed mesh
Non-Lighting Integrations	Blinds, specialty sensors (e.g., CO2), Connects to any sensor and custom data available through extIF. Presense and luminance data communicated directly through extIF	Asset tracking, people counting, air quality, water leak detection, energy monitoring, etc.
Voice Assistant Support	Alexa, Google Home (partner products)	Partner integrations (e.g., Alexa, Google)
Wired/Wireless Integration	DALI, 0-10V/PWM, gateways/APIs to KNX, Matter, Bacnet etc.	DALI (subadressing, error reporting, emergency), Modbus, Bacnet, 0-10V
Max Device Range	Indoor: 50m / Outdoor: 200m	Hardware-dependent
Software Updates	OTA (via Casambi app)	Via gateway or cloud service
App Customization	Brand-specific visual customization or custom app	Rebranding, SDK for custom apps
Licensing Model	One-time license per node (prepayed by component manufacturer)	One-time license per node (prepayed by component manufacturer)

Need Help Choosing the Right Setup?

Compare partner technologies and select the best fit for your application.

Feature	MESHLE	Mymesh
Focus Applications	Smart Home, Commercial/Industrial, Hospitality/Healthcare, Agriculture	Commercial (Office, Education, Healthcare, Logistics, etc.)
Communication Protocol	Bluetooth-Mesh / Matter (Gateway)	Proprietary Full-Mesh
Certification	–	–
Max Nodes per Network	200 per device type (expandable via Gateway)	> 10,000 (scalable)
Infrastructure Required	Optional (Gateway)	Ethernet Gateway for cloud
Registration Needed	No	Yes
Internet for Setup/Use	No (OTA updates offline)	Yes
Security	AES-128 encryption	AES CCM (NIST SP800-38C), HSM-managed keys
Third-Party Security Certificates	–	IASME IoT Cyber Assurance Level 2
Data Hosting (Cloud)	Germany (customizable, no AWS/Azure/Google)	AWS (Germany)
Lighting Control Products	Dimmers, LED drivers, DALI / 0/1–10V adapters, PIR & Light Sensors	LED drivers, DALI controllers, relays, sensors (PIR, CO2, multisensors)
Network Topology	Mesh	Full-Mesh
Non-Lighting Integrations	Blinds, thermostates, cloud-to-cloud (e.g., heating)	HVAC, blinds, energy monitoring
Voice Assistant Support	Matter/Alexa (in progress)	Via REST-API (custom development)
Wired/Wireless Integration	REST API, MESHLE Edge (local cloud)	DALI, Modbus, 0-10V
Max Device Range	Indoor: 30m / Outdoor: 50m	20–30m (buildings)
Software Updates	OTA (Bluetooth/Gateway/Cloud)	OTA (24/7 operational)
App Customization	Brand-specific design, publishable under manufacturer name	Mobile SDK for third-party apps
Licensing Model	Per-chip license (pre-paid with component manufacturer)	One-time license for drivers + components, SLAs for cloud

03

Hardware Platform

Smart Components for Scalable Wireless Control

Our comprehensive hardware portfolio empowers luminaire manufacturers with the flexibility, efficiency, and performance they need to meet the demands of modern lighting projects - from compact installations to large-scale smart buildings.

LED Drivers

Compact | Linear | Track – Slim, Versatile, Ready for Mesh

Our Bluetooth-Mesh-compatible LED drivers combine cutting-edge design with maximum adaptability.

General Features

- Wide Operating Window: One driver supports multiple lumen outputs
- Slim Design: Linear only 16 mm high, Compact just 21 mm high
- Multiple Form Factors: Compact, Linear, Track
- SELV and Non-SELV variants
- Optional Built-in & Looping Function
- Box Programming Ready

Compact Drivers

Wireless - Tunable White (2-Channel)

Features

- Constant current driver with wide operating windows
- 2-channel driver for wireless control of
  - tunable white applications
  - 2 single output channels for standard dimmable applications
- Integrated SkyLink antenna for stable and reliable signal transmission
- Easy and fast wireless programming of driver settings via NFC
- Driver in a compact housing with optional strain relief accessories
- Standby power consumption: < 0.4 W
- Wide dimming range 1 – 100 % (amplitude dimming)
- Independent and built-in version

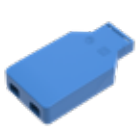
Product parameter

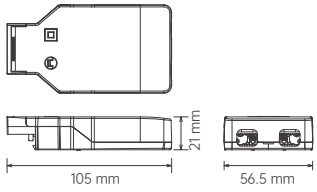
Article no.	Description	Power	Input voltage	Output voltage	Output current	Efficiency @full load	Dimensions (L x W x H)
166633	ID ECSCB 42/230/300-1050 BH21 NFC TW CS	42 W	220-240 VAC 220-240 VDC	15-52 V	300-1050 mA	89 %	135 x 56.5 x 21 mm
166725	ID ECSCB 42/230/300-1050 BH21 NFC TW ML	42 W	220-240 VAC 220-240 VDC	15-52 V	300-1050 mA	89 %	135 x 56.5 x 21 mm
166695	ID ECSCB 42/230/300-1050 BH21 NFC TW MM	42 W	220-240 VAC 220-240 VDC	15-52 V	300-1050 mA	89 %	135 x 56.5 x 21 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

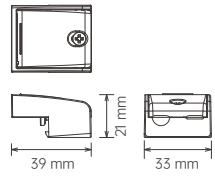
Accessories (optional)

Looping strain relief
XZ-ID-LOOP-C
161201





Strain relief
XZ-ID-C
161195



Compact Drivers

Wireless – Dimming (1-Channel)

Features

- Constant current driver with wide operating windows
- Integrated SkyLink antenna for stable and reliable signal transmission
- Easy and fast wireless programming of driver settings via NFC
- Driver in a compact housing with optional strain relief accessories
- Standby power consumption: < 0.5 W
- Wide dimming range 1 – 100 % (amplitude dimming)
- Independent and built-in version

Product parameter

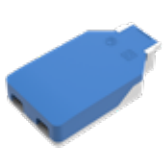
Article no.	Description	Power	Input voltage	Output voltage	Output current	Efficiency @full load	Dimensions (L x W x H)
166541	ID ECSCB 28/230/150-700 BH21 NFC CS	28 W	220-240 VAC 220-240 VDC	15-52 V	150-700 mA	89 %	97 x 43 x 21 mm
166558	ID ECSCB 42/230/300-1050 BH21 NFC CS	42 W	220-240 VAC 220-240 VDC	15-52 V	300-1050 mA	92 %	97 x 43 x 21 mm
166701	ID ECSCB 28/230/150-700 BH21 NFC ML	28 W	220-240 VAC 220-240 VDC	15-52 V	150-700 mA	89 %	97 x 43 x 21 mm
166718	ID ECSCB 42/230/300-1050 BH21 NFC ML	42 W	220-240 VAC 220-240 VDC	15-52 V	300-1050 mA	92 %	97 x 43 x 21 mm
166671	ID ECSCB 28/230/150-700 BH21 NFC MM	28 W	220-240 VAC 220-240 VDC	15-52 V	150-700 mA	89 %	97 x 43 x 21 mm
166688	ID ECSCB 42/230/300-1050 BH21 NFC MM	42 W	220-240 VAC 220-240 VDC	15-52 V	300-1050 mA	92 %	97 x 43 x 21 mm

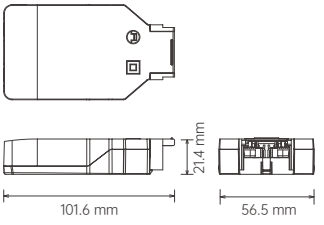
CS = Casambi, ML = MESHLE, MM = Mymesh

Accessories (optional)

Looping strain relief

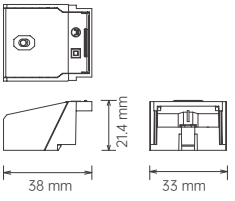
XZ-ID-LOOP-D
163403





Strain relief

XZ-ID-D
163397



Linear Drivers

Wireless - Tunable White (2-Channel)

Features

- Constant current driver with wide operating windows
- Linear 2-channel driver for wireless control of
  - tunable white applications
  - 2 single output channels for standard dimmable applications
- SkyLink antenna ensures a stable and reliable signal transmission, even in the case of a metal luminaire body
- SkyLink antenna is easy to install via simple single-hole mounting and connection to the driver via pre-assembled plug-in connectors
- Easy and fast wireless programming of driver settings via NFC
- Standby power consumption: < 0.4 W
- Wide dimming range 1-100 % (amplitude dimming)
- Optional gasket available for IP65 rating of luminaires

Product parameter

Article no.	Description	Power	Input voltage	Output voltage	Output current	Efficiency @full load	Dimensions (L x W x H)
166787	ID ELNCB 36/230/050-400 SKY NFC TW	36 W	220-240 VAC 220-240 VDC	50-240 V	50-400 mA	91 %	278 x 30 x 16 mm
166794	ID ELNCB 75/230/050-700 SKY NFC TW	75 W	220-240 VAC 220-240 VDC	50-240 V	50-700 mA	92 %	360 x 30 x 16 mm
166800	ID ELNCB 110/230/100-900 SKY NFC TW	110 W	220-240 VAC 220-240 VDC	50-240 V	100-900 mA	93 %	405 x 30 x 16 mm

Accessories:

SkyLink antenna

IC EC BLE	Article no.
Casambi	167685
MESHLE	167746
Mymesh	167739

IC EC BLE	Article no.
Casambi	168927
MESHLE	168866
Mymesh	168873

IP65 antenna protection

XZ-SKY IP W
110267

XZ-SKY IP B
110274

XZ-SKY IP G
110281

Linear Drivers

Wireless – Dimming (1-Channel)

Features

- Constant current driver with wide operating windows
- 1-channel driver for wireless control of standard dimmable applications
- SkyLink antenna ensures a stable and reliable signal transmission, even in case of a metal luminaire body.
- SkyLink antenna is easy to install via simple single-hole mounting and connection to driver via pre-assembled plug-in connectors
- Easy and fast wireless programming of driver settings via NFC
- Standby power consumption: < 0.4 W
- Wide dimming range 1-100 % (amplitude dimming)
- Optional gasket available for IP65 rating of luminaires

Product parameter

Article no.	Description	Power	Input voltage	Output voltage	Output current	Efficiency @full load	Dimensions (L x W x H)
166602	ID ELNCB 36/230/050-400 SKY NFC	36 W	220-240 VAC 220-240 VDC	50-137 V	50-400 mA	91 %	278 x 30 x 16 mm
166619	ID ELNCB 75/230/050-400 SKY NFC	75 W	220-240 VAC 220-240 VDC	50-220 V	50-400 mA	92 %	278 x 30 x 16 mm
166626	ID ELNCB 100/230/200-700 SKY NFC	100 W	220-240 VAC 220-240 VDC	50-220 V	200-700 mA	93 %	360 x 30 x 16 mm

Accessories:

SkyLink antenna

IC EC BLE	Article no.
Casambi	167692
MESHLE	167746
Mymesh	167739

IC EC BLE	Article no.
Casambi	168910
MESHLE	168866
Mymesh	168873

IP65 antenna protection

XZ-SKY IP W
110267

XZ-SKY IP B
110274

XZ-SKY IP G
110281

CASAMBI MESHLE mymesh

Track Drivers

Wireless – Dimming (1-Channel)

Features

- Track driver for wireless control of standard dimmable applications
- Integrated SkyLink antenna for stable and reliable signal transmission
- Easy and fast wireless programming of driver settings via NFC
- Track driver suitable for use in combination with 3 phase tracks
- Wide dimming range 1-100 % (amplitude dimming)
- Standby power consumption < 0.4 W
- Designed for easy integration with track accessories
- Wall mounting and EL applications with accessories possible

Product parameter

Article no.	Description	Color	Power	Input voltage	Output voltage	Output current	Efficiency @full load	Dimensions (L x W x H)
167036	ID ECSCI 42/230/300-1050 NFC CS W	□	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167487	ID ECSCI 42/230/300-1050 NFC CS B	■	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167494	ID ECSCI 42/230/300-1050 NFC CS G	■	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167005	ID ECSCI 42/230/300-1050 NFC ML W	□	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167548	ID ECSCI 42/230/300-1050 NFC ML B	■	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167555	ID ECSCI 42/230/300-1050 NFC ML G	■	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167012	ID ECSCI 42/230/300-1050 NFC MM W	□	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167524	ID ECSCI 42/230/300-1050 NFC MM B	■	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm
167531	ID ECSCI 42/230/300-1050 NFC MM G	■	42 W	220-240 VAC 220-240 VDC	9-42 V	300-1050 mA	89 %	188 x 31 x 45 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

Accessories (optional)

XZ-TRACK-A W
167630

Article no.	Product name
167630	XZ-TRACK-A W
167838	XZ-TRACK-A B
167845	XZ-TRACK-A G

XZ-TRACK-A1 W
167678

Article no.	Product name
167678	XZ-TRACK-A1 W
167852	XZ-TRACK-A1 B
167869	XZ-TRACK-A1 G

XZ-TRACK-B W
168095

Article no.	Product name
168095	XZ-TRACK-B W
168132	XZ-TRACK-B B
168125	XZ-TRACK-B G

White RAL9010 Black RAL9011 Grey RAL7040

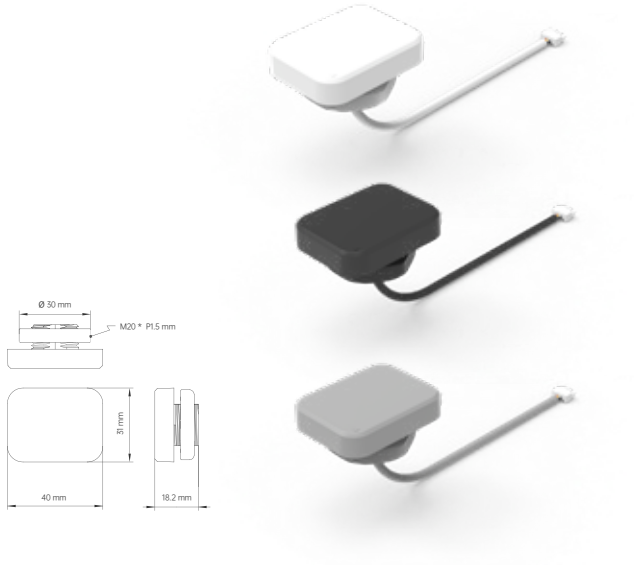
SkyLink Antenna IP65

Reliable Connectivity - Even in Metal Housings

The SkyLink antenna redefines wireless performance for lighting projects by overcoming common transmission challenges. It delivers consistently stable, interference-free communication, ensuring reliable control and synchronization of your lights.

Features

- Breakthrough Signal Transmission: Ensures stable performance in metal housings
- Optimized for CUPOWER Drivers: Seamless pairing for maximum efficiency
- Integrated Bluetooth Module: High-efficiency wireless connectivity
- IP65 Protection: Optional gasket available
- Multiple Colour Options



Product parameter

Article no.	Description	Input voltage	Power Supply	Dimensions (L x W x H)
167692	IC EC BLE TW CS W	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
168910	IC EC BLE TW CS B	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
167685	IC EC BLE CH CS W	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
168927	IC EC BLE CH CS B	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
167746	IC EC BLE ML W	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
168866	IC EC BLE ML B	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
167739	IC EC BLE MM W	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm
168873	IC EC BLE MM B	3.3 VDC	Auxiliary supply	40 × 31 × 18.2 mm

TW = Tunable White, CH = 1-channel
W= White, B = Black
CS = Casambi, ML = MESHLE, MM = Mymesh

Accessories (optional)

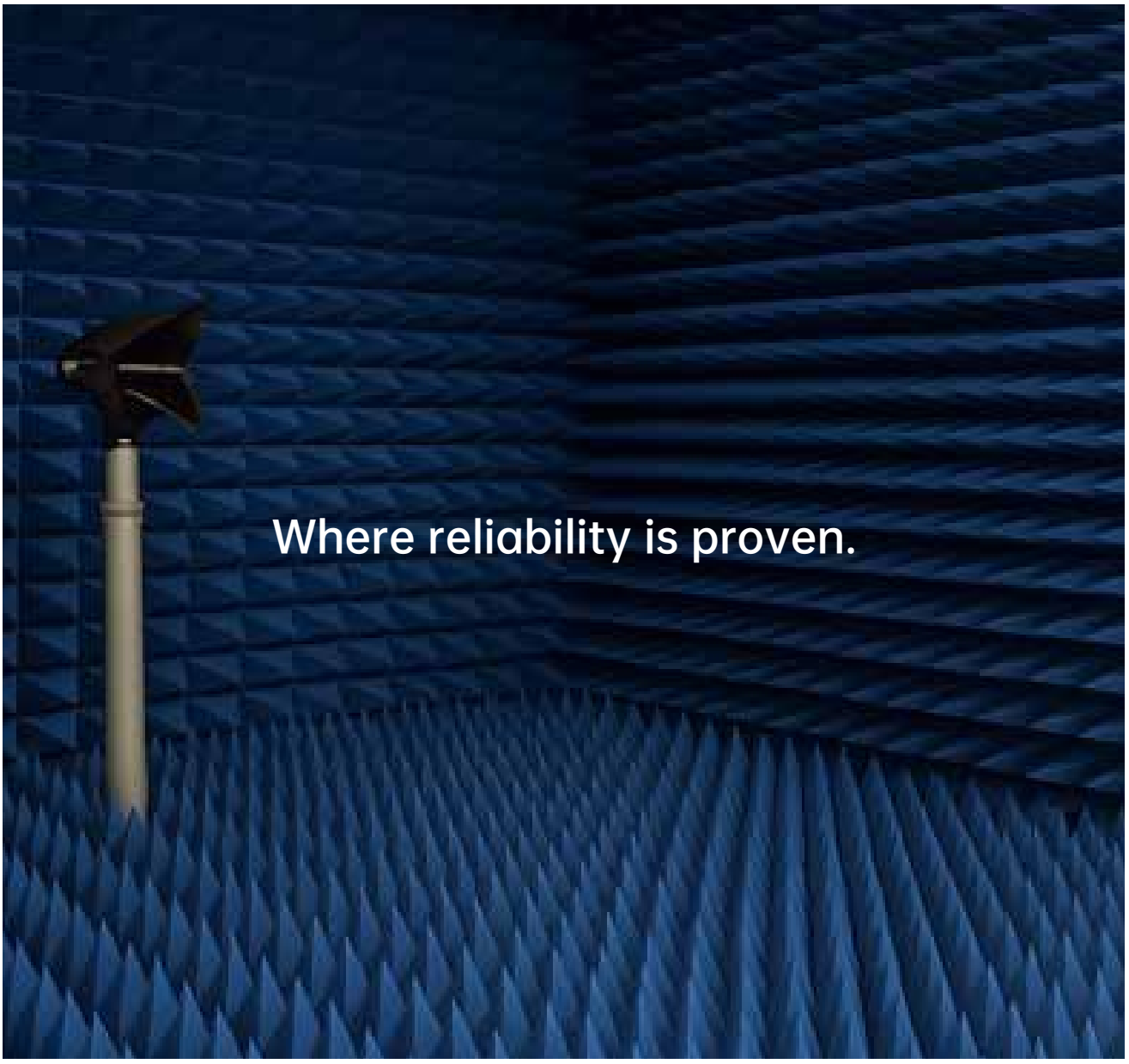
IP65 antenna protection

XZ-SKY IP W
110267

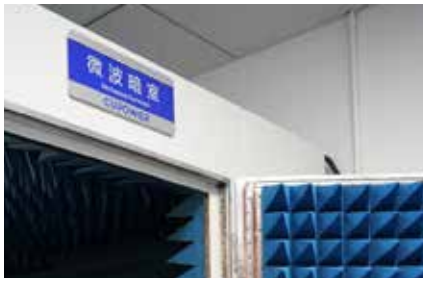
XZ-SKY IP B
110274

XZ-SKY IP G
110281

White RAL9010
Black RAL9011
Grey RAL7040



Antenna Signal Performance Lab



Our Antenna Signal Performance Lab is a state-of-the-art testing environment designed to evaluate and improve the signal quality, range, and distribution of our Bluetooth-Mesh antennas. With controlled conditions and advanced measurement tools, we ensure precise performance diagnostics for all our wireless communication systems.

Whether for development, optimization, or quality assurance, the lab plays a key role in delivering reliable and high-performance Bluetooth-Mesh solutions.

Controllers

Control any Luminaire – AC, DC, DALI, or 0/1–10 V

Our Bluetooth-Mesh controllers adapt effortlessly to both new builds and retrofit projects, bringing everyday devices - push-buttons, sensors, and dimmable LED drivers - into advanced lighting networks.

Depending on your chosen wireless platform, you can unlock tailored features and performance options to suit any application. Every product category is engineered for compatibility with our partner systems, each supported by its own intuitive app for effortless configuration and operation.

- AC and DC controller variants
- Compatible with 0/1-10 V, DALI, and relay-controlled luminaires
- Enables easy migration to Bluetooth-Mesh systems

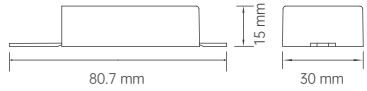
4-way push-button interface for wireless control	DC Bluetooth-Mesh converter for DALI and 0/1-10 V LED drivers	AC Bluetooth-Mesh converter for DALI and 0/1-10 V LED drivers	AC Bluetooth-Mesh converter with relay for DALI and 0/1-10 V LED drivers	5ch Bluetooth-Mesh controller for constant voltage operation of RGBCW stripes
				
AC-Powered Bluetooth-Mesh Interface • Enables control of Bluetooth-Mesh lighting networks using standard push-buttons • Supports up to four momentary push-button inputs • Powered directly from 100...277 VAC mains supply	**DC-Powered Bluetooth-Mesh Controller** • Manages LED drivers via standard DALI or 0/1-10 V interfaces • Compatible with DALI DT 6 and DT 8 protocols • Operates from a 12...24 VDC constant-voltage supply	**AC-Powered Bluetooth-Mesh Controller** • Manages LED drivers via standard DALI or 0/1-10 V interfaces • Compatible with DALI DT 6 and DT 8 protocols • Powered directly from 100...277 VAC mains supply	**AC-Powered Bluetooth-Mesh Controller** • Controls LED drivers via standard DALI or 0/1-10 V interfaces • Integrated relay for mains voltage switching of connected drivers (max. 10 A) • Compatible with DALI DT 6 and DT 8 protocols • Powered directly from 100...277 VAC mains supply	**DC-Powered Bluetooth-Mesh Controller** • Provides color control for constant-voltage LED strips • LED strips connect directly to the controller • Operates from a 12...24 VDC constant-voltage power supply

4-Way Push-Button Interface for Wireless Control

Push-button interface for wireless control of Bluetooth-Mesh products via commercially available wall push-buttons.

Features

- Suitable for connection of up to 4 momentary push-buttons for individual control of e.g. individual luminaires and luminaire groups
- Configuration of functionalities in combination with the selected app of the used wireless system
- Integrated antenna for wireless communication
- Small dimensions of the interface for space-saving installation
- Supported wireless systems: Casambi, MESHLE, Mymesh



Product parameter

Article no.	Description	Input voltage	channel	Dimensions (L x W x H)
166770	IC ECSCB 100-277 DRY 4IN CS	100-277 VAC	4 input push-button	80.7 x 30 x 15 mm
167609	IC ECSCB 100-277 DRY 4IN ML	100-277 VAC	4 input push-button	80.7 x 30 x 15 mm
167395	IC ECSCB 100-277 DRY 4IN MM	100-277 VAC	4 input push-button	80.7 x 30 x 15 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

Product specifications

Max. input current	0.05 A @ 100 Vac
RF transmit power	+ 8 dBm
Wireless frequency	2.4 GHz
Moisture and Dust Rating	IP20

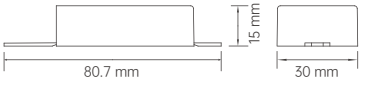
Communication protocol	Casambi, Meshle, Mymesh
Wireless range (open air)	50 m
Operating temperature	-20...+55°C
Storage temperature	-25...+85°C

DC Bluetooth-Mesh Converter for DALI and 0/1-10 V LED drivers

Converter for integration and wireless app control of DALI, 0-10 V or 1-10 V LED drivers into a Wireless system.

Features

- Converter designed for supply voltage of 12 … 24 VDC
- Possibility of connecting a low voltage sensor (12 … 24 VDC) for automated lighting switching depending on movement and brightness
- Integrated antenna for wireless communication
- Small dimensions of the interface for space-saving installation
- Supported wireless systems: Casambi, MESHLE, Mymesh



Product parameter

Article no.	Description	Input voltage	DALI	0-10 V	Dimensions (L x W x H)
166756	IC ECSCB 12-24 DALI 0-10 V CS	12-24 VDC	20 mA	10mA	80.7 x 30 x 15 mm
167586	IC ECSCB 12-24 DALI 0-10 V ML	12-24 VDC	20 mA	10mA	80.7 x 30 x 15 mm
167357	IC ECSCB 12-24 DALI 0-10 V MM	12-24 VDC	20 mA	10mA	80.7 x 30 x 15 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

Product specifications

Max. input current	0.1 A@12 Vdc
RF transmit power	+ 8 dBm
Wireless frequency	2.4 GHz
Moisture and Dust Rating	IP20

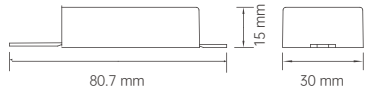
Communication protocol	Casambi, Meshle, Mymesh
Wireless range (open air)	50 m
Operating temperature	-20…+65°C
Storage temperature	-40…+85°C

AC Bluetooth-Mesh converter for DALI and 0/1-10 V LED drivers

Converter for integration and wireless app control of DALI, 0-10 V or 1-10 V LED drivers into a wireless system.

Features

- Converter designed for supply voltage of 100 ... 277 VAC
- Possibility of connecting a low voltage sensor for automated lighting switching depending on movement and brightness
- Integrated antenna for wireless communication
- Small dimensions of the interface for space-saving installation
- Supported wireless systems: Casambi, MESHLE, Mymesh



Product parameter

Article no.	Description	Input voltage	DALI	0-10 V	Dimensions (L x W x H)
166732	IC ECSCB 100-277 DALI 0-10 V CS	100-277 VAC	20 mA	50 mA	80.7 x 30 x 15 mm
167562	IC ECSCB 100-277 DALI 0-10 V ML	100-277 VAC	20 mA	50 mA	80.7 x 30 x 15 mm
167319	IC ECSCB 100-277 DALI 0-10 V MM	100-277 VAC	20 mA	50 mA	80.7 x 30 x 15 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

Product specifications

Max. input current	0.05 A@100 Vac
RF transmit power	+ 8 dBm
Wireless frequency	2.4 GHz
Moisture and Dust Rating	IP20

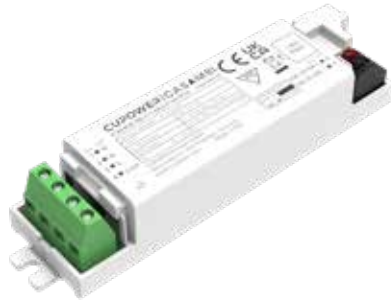
Communication protocol	Casambi, MESHLE, mymesh
Wireless range (open air)	50 m
Operating temperature	-20...+65°C
Storage temperature	-25...+85°C

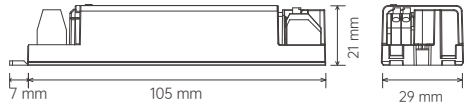
AC Bluetooth/Mesh converter with relay for DALI and 0/1-10 V LED drivers

Converter for integration and wireless app control of DALI, 0-10 V or 1-10 V LED drivers into a wireless system.

Features

- AC supplied Bluetooth/Mesh controller to control LED drivers by standardized DALI or 0/1-10 V interface + mains switching output
- Compatible with DT6 and DT8 DALI protocols
- Controller powered by mains voltage supply 100 ... 277 VAC
- Enables reading fixture lifetime data: Data management, energy monitoring, predictive maintenance
- Possibility of connecting a low voltage sensor for automated lighting switching depending on movement
- Integrated antenna for wireless communication
- Optional strain relief for input side and output side available





Product parameter

Article no.	Description	Input voltage	DALI	0-10 V	Dimensions (L x W x H)
166749	IC ECSCB 100-277 DALI 0-10 V R CS	100-277 VAC	100 mA	50 mA	105 x 29 x 21 mm
167579	IC ECSCB 100-277 DALI 0-10 V R ML	100-277 VAC	100 mA	50 mA	105 x 29 x 21 mm
167333	IC ECSCB 100-277 DALI 0-10 V R MM	100-277 VAC	100 mA	50 mA	105 x 29 x 21 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

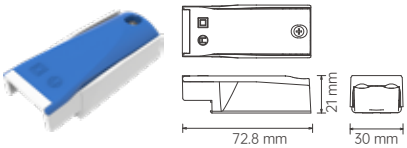
Product specifications

Max. input current	0.06 A @ 100 Vac
RF transmit power	+ 8 dBm
Wireless frequency	2.4 GHz
Moisture and Dust Rating	IP20

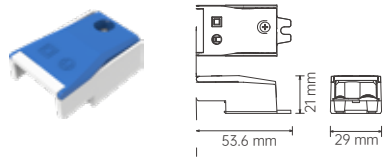
Communication protocol	Casambi, MESHLE, mymesh
Wireless range (open air)	50 m
Operating temperature	-20...+50°C
Storage temperature	-25...+85°C

Accessories (optional)

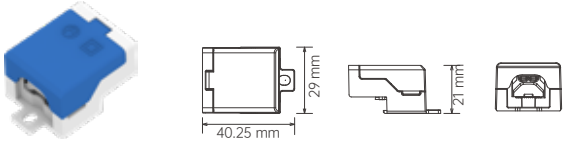
Looping strain relief
XZ-FLASH-LOOP-A
166480



Strain relief
XZ-FLASH-B
166596



Strain relief
XZ-FLASH-A
161218

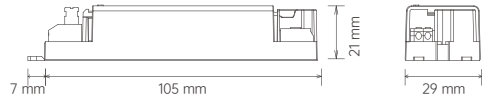


DC 5CH PWM wireless controller

Controller for wireless light control via App, e.g. for the functions switching, dimming, and individual setting of a light color.

Features

- Suitable for low-voltage LED strips and LED modules with an operating voltage of 12 V, 24 V or 48 V
- Input voltage of the controller 12 V, 24 V or 48 V, depending on the desired output voltage, i.e. additional power supply is needed
- The maximum total output current of 9 A can be distributed individually to the 5 outputs (max. 6 A / channel)
- Integrated antenna for wireless communication
- Optional strain relief for input side and output side available
- Supported wireless systems: Casambi, MESHLE, Mymesh



Product parameter

Article no.	Description	Input voltage	Channel	Output current	Dimensions (L x W x H)
166763	IC ECSCB 12-48 PWM 5CH CS	12-48 VDC	5	9 A (6 A/Ch)	105 x 29 x 21 mm
167593	IC ECSCB 12-48 PWM 5CH ML	12-48 VDC	5	9 A (6 A/Ch)	105 x 29 x 21 mm
167371	IC ECSCB 12-48 PWM 5CH MM	12-48 VDC	5	9 A (6 A/Ch)	105 x 29 x 21 mm

CS = Casambi, ML = MESHLE, MM = Mymesh

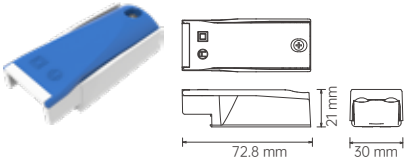
Product specifications

Max. input current	9 A
RF transmit power	+ 8 dBm
Wireless frequency	2.4 GHz
Moisture and Dust Rating	IP20

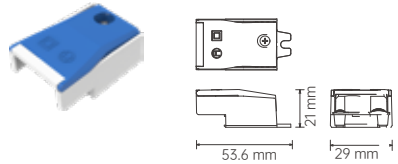
Communication protocol	Casambi, MESHLE, mymesh
Wireless range (open air)	50 m
Operating temperature	-20...+50°C
Storage temperature	-25...+85°C

Accessories (optional)

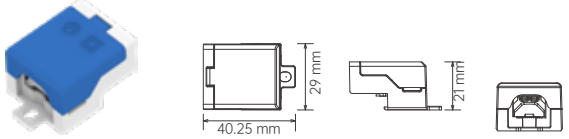
Looping strain relief
XZ-FLASH-LOOP-A
166480



Strain relief
XZ-FLASH-B
166596



Strain relief
XZ-FLASH-A
161218



Sensors

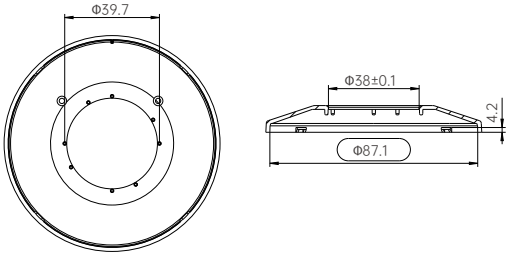
Smarter Spaces through Detection and Automation

Features

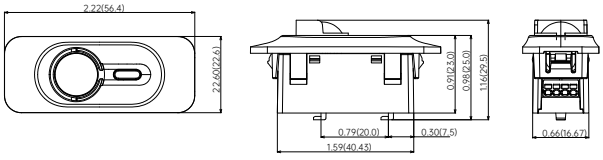
Our sensor range enables automation, energy savings, intelligent lighting control, and supports green building certifications and environmental standards.

- Motion & presence detection
- Light level sensing
- Fully mesh-compatible
- Easy mounting options for ceilings, walls, or luminaires

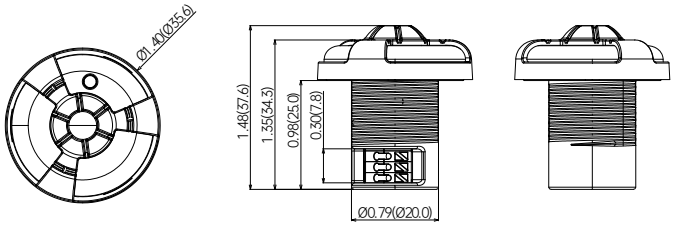
IC-S509-PLB-BAT-RW-CS



IC-S506-PLB-DA/0-10V-LW-CS



IC-S508-PLB-DA/0-10V-CW-CS



	IC-S509-PLB-BAT-RW-CS	IC-S508-PLB-DA/0-10V-CW-CS	IC-S506-PLB-DA/0-10V-LW-CS
	Battery-powered stand-alone sensor	Cylindrical sensor for built-in use	Rectangular sensor for built-in use
Article number	168392	168408	169313
Sensor Type	PIR + ALS	PIR + ALS	PIR + ALS
Communication	Bluetooth-Mesh (Casambi)	Bluetooth-Mesh (Casambi)	Bluetooth-Mesh (Casambi)
Power Input	Battery-powered	9.5–24 VDC (D4i / 0–10 V)	9.5–24 VDC (D4i / 0–10 V)
Embedded Depth	N/A	25 mm	20 mm
Target Luminaire	Any wireless retrofit application	Panel light/linear light/Tri-proof light	Panel lights and ceiling lights, etc
Installation Type	Surface-mounted	Built-in	Built-in
Protection	IP20	IP54	IP20
Max. Installation Height	3.6 m	3.5 m	3.5 m
Detection range	Ø7 @ mounting height: 5 m	Ø5 @ mounting height: 3.5 m	Ø5 @ mounting height: 3.5 m
Compatibility	–	Zhaga Book 20 compliant	Zhaga Book 20 compliant

* For the moment only CASAMBI compatible.

Learnings:

1 Passive Infrared Sensor (PIR)

The integrated PIR continuously detects motion and occupancy within its field of view to support automatic lighting control:

- Presence detected: the system activates or maintains lighting levels
- No presence detected: the system dims or turns off the lighting after a delay

The PIR element is housed within the sensor and connected to the external environment via a Fresnel lens, which focuses infrared signals onto the detector, ensuring reliable motion sensing while providing mechanical and environmental protection.

2 Ambient Light Sensor (ALS)

The integrated ALS continuously measures ambient brightness to support automatic light level adjustment:

- High ambient light (e.g., daylight): the system reduces lighting levels
- Low ambient light: the system increases lighting levels

The ALS is embedded within the sensor housing and optically linked to the exterior via a light guide, ensuring accurate light detection while maintaining physical protection.

CUPOWER Bluetooth-Mesh Platform.
One Hardware. Endless Possibilities.
Smart lighting and control, made simple.

CUPOWER Europe GmbH

Ahornweg 5a,
58675 Hemer, Germany
+49 2372-568-7570
dirk@cupower.com

CUPOWER North America, Inc.

655 Raco Dr. Suite A,
Lawrenceville, GA 30046, USA
+1 905 658-2500
scottr@cupower.com

Shenzhen Xiezhen Electronics Co., Ltd.

Floor 2, Building E, Taohuayuan Smart & Innovation Park,
Bao'an District, Shenzhen, China
+86 755-2781-9400
sales@cupower.com

Hunan Xiezhen Electronics Co., Ltd.

Building 11, Innovation Park, Linyi Road, Bailutang Town,
Suxian District, Chenzhou, Hunan, China
+86 735-265-3770
sales@cupower.com