

LEDcode BLE radio, Casambi-ready

BLE wireless lighting control, Casambi-ready

The Casambi-ready LEDcode BLE radio is a single, digitally integrated, BLE radio LED driver package for wireless light control through Casambi and Bluetooth Low Energy (BLE) beaconing. The radio's LEDcode2 connection allows for easy, 2-wire digital integration with eldoLED LED drivers in a luminaire system. The radio/LED driver combination enables seamless integration in a Casambi BLE lighting control flood network. Integration and certification is easy thanks to the 2-wire, low voltage LEDcode2 connection.

Product Offering



LEDcode BLE radio, Casambi-ready, internal antenna

Part numbers (P/N): **BT-L1C1** (Casambi Classic stack)

Features & Benefits

Wireless control	Control your light with Bluetooth
Network stack	Support for Casambi Evolution and Casambi Classic
Firmware stack	The BLE radio hardware is capable of running the Casambi stack, including support for OTA firmware updates
IoT and Sensing	Hardware is capable of running Casambi supported beaconing and seamless integration into Casambi lighting - sensor network

Certifications



Order number configurator

Example: BT-L1C1- 5403

B T - - - - - - - - - -
Part Number Profile ID#

Profile ID#	Compatible Driver Family	Control Channels
5400	ECODrive, SOLOdrive	One channel dimming of intensity
5402	DUALdrive	Two channel dimming of intensity
5403	DUALdrive with LightShape	Two channel control for dimming and CCT (in Kelvin, default range 3000K - 6500K)
5405	DUALdrive with LightShape	Two channel control for dimming and CCT (as %, default range 3000K - 6500K)

Warranty: [General Terms and Conditions](#)

LEDcode BLE radio, Casambi-ready

Wireless control

The Casambi app can be downloaded and installed from the Apple App Store for iOS devices or from the Google Play Store for Android devices.

Input Control Characteristics

Control Channels	1 channel (Profile ID: 5400) (214-231) 2 channels (Profile ID: 5403) (214-232)
Protocol	LEDcode2
Dimming range	100% - 0.1% (SOLOdrive and DUALdrive) 100% - 1% (ECOdrive)

Output Control Characteristics

Protocol	Bluetooth Low Energy 4.0
BLE Operating range	Line of sight < 25 meters Transmit power and environment will influence the actual range
Remote antenna	Pulse W3525B (BT-L2C1)

Electrical Specifications

Bluetooth core version	4.0
Frequency range	2.402 GHz - 2.480 GHz
BTLE antenna	Single-band antenna
Input voltage range DC	4-6.5V
Maximum output power	4 dBm
Maximum input power	50 mW
Peak current	<15mA @ 3.6V
Polarity of LEDcode lines	Protected against incorrect wiring of the incoming LEDcode wires

Standards & Compliance

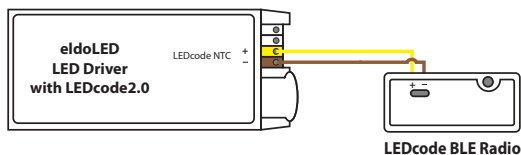
ENEC Safety	EN 62368-1:2014 EN 62479:2010
UL Management Equipment, Energy - Component	UL 916
Radiated emissions	47 CFR Part 15.247 RSS-210 Issue 9 August 2016 RSS-247 Issue 1 May 2015
Bluetooth	Bluetooth Qualification & Declaration ID: D037520
IC	6715C-BRM1
Surge Immunity	ANSI C63.4:2014
Restriction of Hazardous Substances	RoHS3
SVH-list substances	REACH Art.33
EMC	EN301 489-1 V2.2.0 EN301 489-17 V3.2.0
Radio Spectrum	EN300 328 V2.1.1

Environmental Conditions

Operating ambient temperature (Ta) range	-40 °C to +85 °C
Lifetime	100,000 hours

Wiring

Wiring Specifications



Note: Wire length from BLE radio to LED driver should not exceed 3 meters if extending using other wiring.

	BT-L1C1
	Radio
Wire Type	solid copper, twisted brown and yellow wire
Wire core cross section	0.52 mm ² +/- 0.01 mm; AWG 20
Connector type	N/A
Wire length	600 +/- 10 mm
Wire strip length	6.5 +/- 0.5 mm
Cable end	N/A

LEDcode BLE radio, Casambi-ready

Mechanical Details

Models: BT-L1C1

Mounting hole diameter	3.2 mm / 0.13 in
Mounting	M3, outer dimensions < 3.2 mm
Mounting torque	Not to exceed 100 Nm
Weight	10.4 g

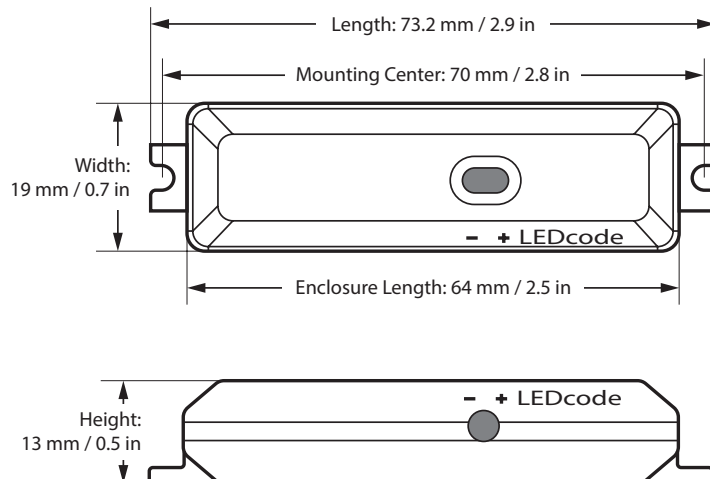
Recommended Tools

Release of wires from LEDcode connector	WAGO. P/N: 206-859
---	--------------------

Packaging

L x W x H box	470 x 345 x 150 mm
Weight (100 products)	2 kg
Products per box	Sets of 5 pcs (100 pcs max)
L x W x H - single-unit package	95 x 60 x 32 mm

BLE Radio



Resources

Web: www.eldoled.com
Email: info@eldoled.com

Europe, Rest of World

eldoLED B.V.
Science Park Eindhoven 5125
5692 ED Son, The Netherlands

North America

eldoLED America
One Lithonia Way
Conyers, GA 30012, USA