

For A Smarter Lighting



BLEND/Z Zigbee/BLE Wireless Connectivity Module Series M7B-Q95

ubisys BLEND/Z is a quick and easy upgrade to your drivers and luminaires. Instantly add wireless connectivity to your products making them work with major commercial and residential control platforms. With our solution being fully standards compliant you avoid the pitfalls of relying on proprietary single source suppliers. Don't limit yourself to a single app or eco-system. BLEND/Z combines Zigbee and Bluetooth, the leading standards for connected lighting. Start with a single light and a smartphone – using Bluetooth. Easily scale up to thousands of nodes – with Zigbee.

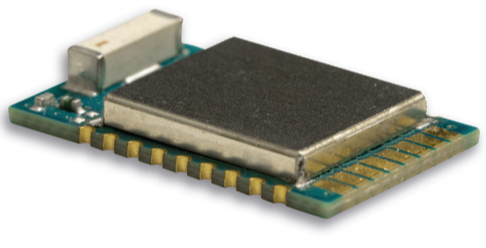
This series provides a line-up of surface-mount modules in various common form-factors with different antenna options. These modules come with the leading ubisys Compact7B™ Zigbee stack and pre-loaded applications, which greatly simplify the design and manufacturing of connected products. For example, ready-to-use images for typical lighting control applications are available, which can directly steer power stages using PWM signals or analogue control circuits using 0-10V signals.

Main Features

- RGBW or CW/WW
 - No hub necessary (for BLE)
 - Direct configuration via smart phone
 - Ideal for commercial use (incl. HCL, Automation and ubisys Dashboard)
 - Directly compatible with Amazon Echo, Ikea TRADFRI, Philips Hue
 - In conjunction with ubisys G1 compatible with Apple HomeKit and other Zigbee systems
 - Controllable via app
 - Zigbee router
- Standards**
- IEEE 802.15.4
 - Zigbee 3.0 / Zigbee Direct
 - Bluetooth Low Energy 4.2
 - Ready for Matter
- Installation**
- PCB mounting

ZBLE-Features

- Allows for a simple setup by directly connecting smart phones and tablets to lights – no hub required
- Adding a Zigbee 3.0 gateway is possible anytime to enable scalable and robust cloud-connected solutions
- Adding classic Zigbee 3.0 and Zigbee Green Power devices to the mix is also possible any time
- Mature, scalable, robust and secure Zigbee technology is the backbone of the resulting mesh network
- ZBLE enables quick and easy access to a Zigbee network without requiring IEEE 802.15.4 radio hardware

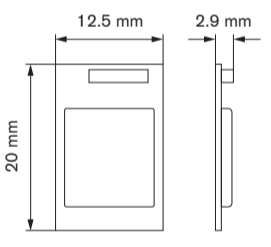


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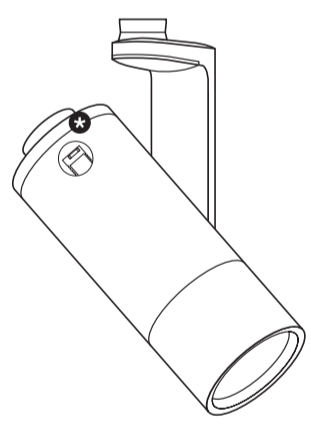


Applications

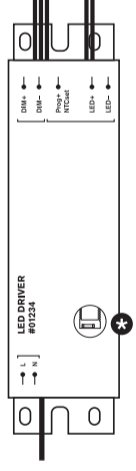
The series is available in various versions. Customer specific adaptations are possible at any time. The modules are suitable for the following applications e.g.:



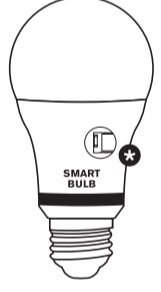
Luminaires



Drivers



Smart Bulbs



Additional Services from ubisys			
• Drop-in replacements for existing modules in any form factor	• Design-in services (incl. power electronics)	• Custom firmware solutions	• On-going maintenance with firmware upgrades
			(incl. new features, bug fixes and advances in standardization)



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Lighting Driver LD6

Zigbee/BLE Driver for Smart Lighting

The LD6 is a wireless smart lighting driver which can be integrated into your luminaires or installed in suspended ceilings, etc. Equipped with 6 channels, the LD6 is suitable for RGB, RGBW or WW/CW illuminants. With all 6 channels being configurable it offers the most versatile lighting options. The RGB/RGBW colour control allows for a seamless adjustment of countless colour shades.

The „Tunable White“ option is able to reproduce natural light such as daylight, workspace light and even pleasant living room light by continuously mixing cool and warm white – making it perfectly suited for daylight simulations: Human Centric Lighting. Furthermore, the device has a pushbutton interface for local operation (e.g. for floor lamps) and a sensor interface. With its multi-radio protocol feature, the LD6 makes your luminaires Zigbee and Bluetooth Low Energy (BLE) capable.

Main Features

Configuration Options

- Up to 6 channels of monochromatic dimmable light output
- Up to 3 channels of tunable white light
- 1 channel of R/G/B/CW/WW
- 1 channel of R/G/B/A/CW/WW
- Any viable mix of the previous, e.g. 2 x dimmable light, 2 x tunable white, or 1 RGBW + 2 dimmable

Further Features

- Control via smart phone and tablet via the ubisys app (possible via BLE without gateway)
- Zigbee router
- Control via Zigbee-capable buttons/switches
- Integration in scenes and groups
- Integration in scheduled actions
- Integration in automations like HCL (Human Centric Lighting)

Standards

- IEEE 802.15.4
- Zigbee 3.0 / Zigbee Direct
- Bluetooth Low Energy 4.2
- Ready for Matter

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„BLEND/Z and LD6 combine native Zigbee 3.0 wireless mesh technology with ubiquitous Bluetooth wireless connectivity.“

Control Unit C2 Mini

Zigbee/BLE Wireless Connectivity Luminaire Module

Experience the full range of design freedom when putting together your lighting system. The ubisys C2 Mini module is particularly suitable for integrating floor lamps into your smart light installation and supports the parallel operation of Zigbee and Bluetooth protocols. Decide regardless of the manufacturer which electrical consumers you want to integrate into your intelligent ecosystem.

Basically, the C2 has similar functions as the ubisys flush-mounted component C4, but only 2 inputs are available for switches and buttons. Another new feature is the option of integrating touch sensors to control luminaires. This is possible because the module provides a safety extra-low voltage (SELV) on the secondary side, while the C2 component is supplied with mains voltage on the primary side. Experience the Internet of Things and smart lighting without any limits with ubisys C2 Mini.

Main Features

- Same reconfiguration options for switch behavior as ubisys C4:
 - On/off
 - Level control
 - Color control
 - Recall scene
 - ...
- Capable of concurrent Zigbee 3.x and BLE (will converge on emerging Zigbee / Zigbee Direct standard), BLE interface will be enabled via later OTA firmware upgrade

- Two isolated inputs for low voltage switches (or simple binary sensors, e.g. touch sensors), for instance in a floor-standing light application:
 - button 1 controls direct light, button 2 controls indirect light, or button 1 controls local light, button 2 controls group of lights, etc.

Standards

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Housing

- Currently: early prototype housing
- Final housing: injection mold

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Connections

- Primary: Universal AC mains input, 90..270V, 50/60Hz
- Secondary: SELV supply 3.3V, few mA drive capability

