

C2 Mini For Smarter Lighting

ubisys®

ZBLE
Bringing BLE into Zigbee 3

Product information 2020/21

Control Unit C2 Mini Zigbee/BLE Wireless Connectivity Luminaire Module

Experience the full range of design freedom when putting together your lighting system. The newly developed ubisys C2 module is particularly suitable for integrating floor lamps into your smart light installation and supports the parallel operation of Zigbee and Bluetooth protocols. Decide independently of the manufacturer which conventional electromechanical switches you would like to integrate into your intelligent ecosystem.

Basically, the C2 module has similar functions as the ubisys flush-mounted component C4, in a smaller formfactor with two inputs for buttons or switches. Another great new feature of the C2 module is the option of connecting touch sensors to control luminaires. This is possible because the module provides a safety extra-low voltage 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.



„Use switches with the size, shape, color and haptics that ideally suit your luminaires to control Zigbee devices.“



ZBLE
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zigbee

Bluetooth
SMART

ubisys BLEND/Z included

- Allows for a simple start by direct connections from smart phones and tablets to lights without a hub
- 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

Technical Data

Standards

- IEEE 802.15.4
- Zigbee 3.0
- Bluetooth Low Energy 4.2

Housing

- Early prototype housing – will use this to gather feedback from lead customers
- Final housing: injection mold

Connections

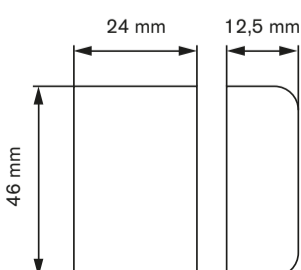
- Primary: Universal AC mains input, 90..270V, 50/60Hz
- Secondary: SELV supply 3.3V, few mA drive capability

- Two inputs for 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 a group of lights, etc.

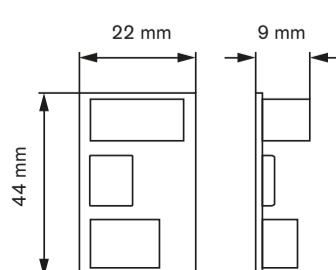
Technical features

- MMI: 1 LED, 1 push-button for commissioning (same as C4)
- Same reconfiguration options for switch behavior as C4
 - On/off
 - Level control
 - Color control
 - Recall scene
 - ...
- Capable of concurrent Zigbee 3.x and BLE (will converge on emerging Zigbee/BLE proxy standard), BLE interface will be enabled via later OTA firmware upgrade
- Customer-specific adaptations are possible at any time

Dimensions housing



Dimensions PCBA





Applications

Make your luminaires Zigbee and BLE enabled by simply integrating the C2 Mini into your devices.

About ubisys

As one of the world's leading companies in the Internet of Things (IoT) industry, based in Düsseldorf (Germany), ubisys develops smart products and solutions for networked building technology and helps other manufacturers to prepare their products for the digital age.

Its broad portfolio includes core technologies like certified Zigbee Golden Unit stacks, cloud services, luminaire modules, advanced products including roller shade controllers, dimmers, smart power outlets and heating controllers as well as complete, consumer-facing solutions with gateways and apps for iOS and Android.

We attach particular importance to promote the development of the major international wireless networking standards, which we significantly influence in major positions within the Zigbee Alliance. Named „Golden Unit“ several times, we received an award from the Zigbee Alliance in 2018, honoring our contributions to standardizing and certifying the world's first Zigbee 3.0 devices.

With ubisys you can count on first-class Zigbee solutions and benefit from quality products „Made in Germany“.

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