

BlueRange Mesh Node R2 Datasheet

IoT Bluetooth and BLE beacon for setting up a BLE mesh infrastructure in BlueRange infrastructure systems.

Item number: BR-MN-2019-00001



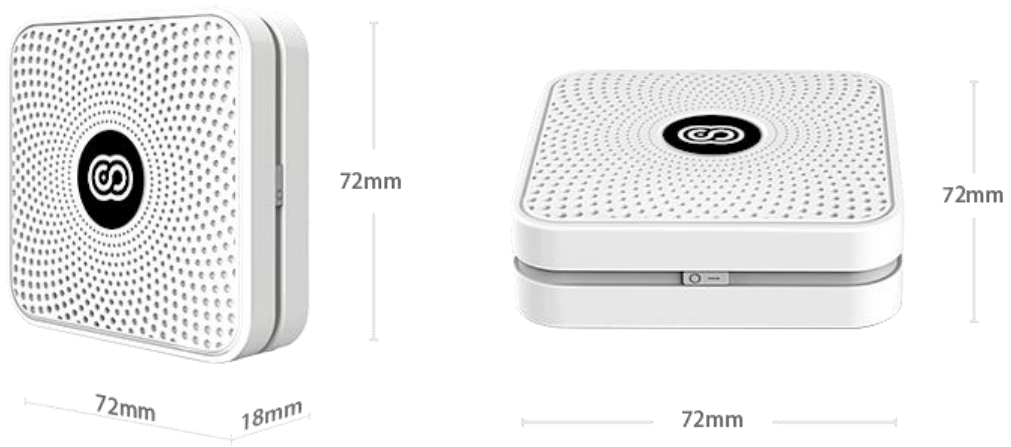
BlueRange Mesh Node R2

Overview

- Bluetooth beacon device to setup a BlueRange BLE mesh as infrastructure
- Optimized with BlueRange firmware
- Powered by exchangeable 4 x AA batteries, 3.0 V / 3.6 V
- Easy installation and attachment via adhesives

Specification, Characteristics

Type	Mesh Node, Minew E2
Item number	BR-MN-2019-00001
Power supply	4 x AA batteries, 3.0 V / 3.6 V
Operation Voltage	1.8 – 3.9 V
Transmission power	-30 to +4 dBm
Transmission circuit	10.5 mA (max.)
Chipset	Nordic Semiconductors nRF52832
Connectivity	Bluetooth 4.2 and newer, BLE
Geometry (L/W/H)	72 / 72 / 23 mm
Weight	109 g
Operating and storage temperature	-20 - 70 °C (Battery Limit)
Protection class	IP67



Connection

The beacon doesn't need any external connection to a power source. The beacon is powered by internal batteries. These can be easily replaced by removing the rubber at the bottom side and unscrewing the screws.

The beacon will connect automatically to a BlueRange mesh, as soon as the device is enrolled. To easily enroll a beacon, use the BlueRange Commissioning App. The Application provides the opportunity to name the beacon for easy mapping, give the position within the site of the setup and take a photo of the position.

The connection to the BLE mesh infrastructure is determined by the enrollment.

Functional Description

The BlueRange Mesh Beacon is used for all kind of IoT installations utilizing Bluetooth Low Energy communication to form a BLE mesh infrastructure. This infrastructure is used to setup various use cases, such as Asset Tracking, Information Management, Proximity Marketing and much more.

Order Information

BlueRange Mesh Node R2




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In standard application used for BlueRange installations of BLE mesh infrastructure and comes with BlueRange Firmware.

One year legal warranty.

Batteries and adhesive stickers included.

Signs and certificates

	<p>WEEE directive 2012/19/EU Do not dispose of with household waste!</p>
	<p>CE certification - Conformité Européenne Declaration in accordance with EU Regulation 765/2008 that the product complies with the applicable requirements laid down in the Community harmonisation legislation on its affixing.</p>
	<p>Approved by the Federal Communications Commission (FCC). FCC ID: 2AKDDRUUVITAG</p>

Related Components

Our BlueRange Gateway is compatible with several **BlueRange Ready** components by other manufacturers. See examples below:

Vossloh-Schwabe Deutschland GmbH – Blu2Light series



All components of the Blu2Light series are fully BlueRange Ready and used to setup lighting installations.

The LiNA configuration and user apps are fully BlueRange integrated and completed

vossloh-schwabe.com/blu2light-indoor

Regent Beleuchtungskörper AG – Lightpad Tuneable series



Regent Lightpad Tuneable office luminaires connect to a BLE mesh via BlueRange Mesh.

These luminaires can be controlled and managed via an App and/or connect to a cloud via a gateway.

regent.ch/lightpad-tunable

Herbert Waldmann GmbH & Co. KG / LIZ – YARA series



The YARA luminaire series luminaires connect to a BLE mesh via BlueRange Mesh.

These luminaires can be controlled and managed via an App and/or connect to a cloud via a gateway.

waldmann.com/yara

Find more **BlueRange Ready** products at:

bluerange.io/components

Further information and tools

Please find our documentation on how to setup and enroll a BlueRange BLE mesh infrastructure at bluerange.io/developer.

Link to the BlueRange Provisioning App:



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General information on BlueRange

www.bluerange.io

Disclaimer

Subject to change without notice. All data without guarantee.

The data sheet refers to the current factory setting.

The function in installations with other devices must be checked in advance for compatibility.