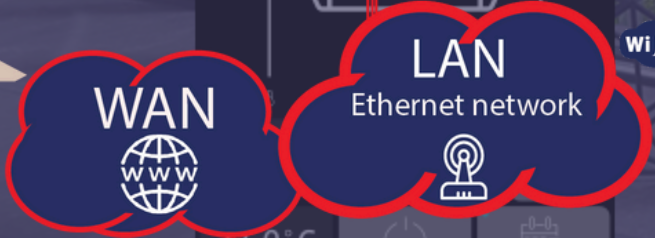


SMARTEH LBT-1

Bluetooth Mesh solution



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SmarteH Bluetooth Mesh LBT-1 products

SmarteH offers a wide range of SmarteH Bluetooth Mesh modules to meet the most complex and demanding automation projects:

- **LBT-1.GW1** Bluetooth Mesh Modbus RTU gateway
- **LBT-1.DO1** Bluetooth Mesh Relay output module 1DO (4A) 2DI
- **LBT-1.DO4** Bluetooth Mesh Triac output module 2DO (1A) 1DI
- **LBT-1.DO5** Bluetooth Mesh Triac output module 1DO (1A) 1DI
- **LBT-1.B01** Bluetooth Mesh window / door sensor
- **LBT-1.B02** Bluetooth Mesh multisensor (Lux, PIR, T/RH)
- **LBT-1.BA1** Bluetooth Mesh thermostatic radiator and floor heating valve actuator (TRV)

SmarteH Bluetooth Mesh products incorporate secure, powerful and reliable Silicon Labs Bluetooth® modules, developed and manufactured in accordance with Bluetooth SIG standards and certificates.

SmarteH Bluetooth Mesh products are added and connected to a Bluetooth Mesh network using standard provisioning applications such as nRF Mesh, Silicon Labs Bluetooth Mesh, or similar.



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SmarteH Bluetooth Mesh provisioning tool

Unlock the full potential of Smarteh Bluetooth Mesh networks with the Smarteh Bluetooth Mesh provisioning tool. Designed for seamless provisioning, management, and customization of Smarteh Bluetooth Mesh products, this innovative tool is tailored to meet the needs of both everyday users and advanced professionals.

Key features

- **Network provisioning:** Create and manage your own Bluetooth Mesh networks by generating network keys and provisioning Smarteh Bluetooth Mesh products effortlessly.
- **User-friendly interface:** Featuring an intuitive design, the tool is convenient to users of all levels, providing a simple and straightforward experience.
- **Compatibility:** Requires devices that support the Bluetooth 5.0 protocol and are equipped with a Bluetooth module/card (commonly found in laptops) or a Bluetooth adapter/dongle for personal computers.
- **Versatility:** Tested extensively on both laptops and personal computers, the tool can be used as a standalone portable Windows application or installed like any other Windows-based application.
- **Advanced settings:** Manually create network or Bluetooth Mesh products .json or .csv files, import existing networks or devices from local files or cloud-based databases, and configure Bluetooth Mesh and BLE device parameters.

**For a detailed description click the icon user manual.*



SmarteH BLE Mesh Tool

Navigation flow: Main Menu → Networks Screen → Create or Edit Network Screen

Welcome to Smarteh BLE Mesh Tool

To begin, navigate to the Networks Screen. Next, create a new Network where you can seamlessly integrate BLE devices through a simplified provisioning process.

Page 1/6

Skip [Progress indicator] →



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SmarteH Bluetooth Mesh provisioning tool

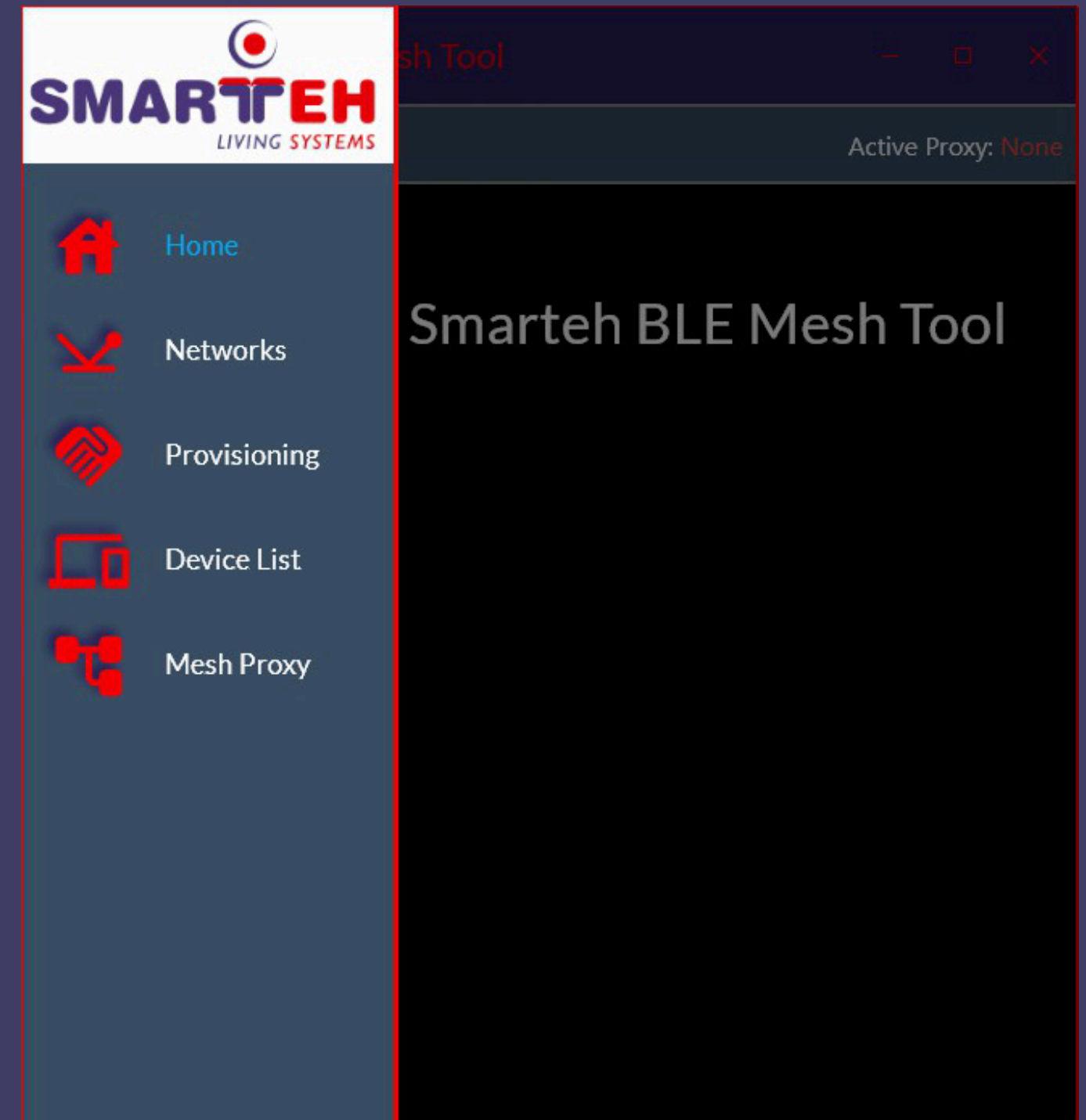
User interface overview

- **Main Screens:** Divided into 5 main screens for easy navigation and quick access to primary functions.
- **Secondary screens:** Includes 6 different secondary screens offering advanced actions and settings.
- **Real-time feedback mechanism:** The user interface provides real-time feedback and guidance, ensuring a smooth and intuitive user experience.
- **Persistent local database:** All data, including Bluetooth Mesh networks and Bluetooth Mesh products, are stored locally and automatically loaded into the tool whenever you start it, enhancing data management and accessibility.

Scalability & Accessibility

- **Scrollable interface:** The application window adapts dynamically based on its size. If the window is large enough, only specific components become scrollable, such as the Log Console, ensuring optimal usability.

**For a detailed description click the icon user manual.*



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SmarteH Bluetooth Mesh User Interface (UI)

SmarteH Bluetooth Mesh User Interface (UI) application is pre-installed on the 7-inch capacitive LPC-3.GOT.012 PLC based HMI touch panel.

The LBT-1.GW1 Modbus RTU Bluetooth Gateway is used to transfer/receive data from LPC-3.GOT.012 to/from SmarteH Bluetooth Mesh field devices. LBT-1.GW1 Modbus RTU Bluetooth gateway is designed to work with any PC or PLC controller if they support Modbus RTU RS485 communication.

The SmarteH Bluetooth Mesh UI application can be installed, debugged, parameterized or upgraded in the local network or remotely from a dislocated office.

With standard Ethernet protocols such as Modbus TCP/IP and BACnet IP (B-ASC), SmarteH Bluetooth Mesh UI application can be integrated into almost any SCADA, PMS, or other supervision systems.



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SmarteH Bluetooth Mesh User Interface (UI) via remote access

The Remote HMI feature of Touch Panel allows remote access by any mobile or desktop device using a Web browser as a VNC server alternative.

The image features a central smartphone held in a hand, displaying the SmarteH UI for a radiator. The screen shows the time 12:00 on Wednesday, 02.06.2021, and a control panel for 'Radiator 1'. The panel includes fields for 'IME NAPRAVE' (Radiator 1), 'ID NAPRAVE' (12), and 'LOKACIJA NAPRAVE' (NADSTROPJE 1 SOBA 1). It also displays a grid of room icons labeled LBT-1.BA1 through LBT-1.IR1. At the bottom, there are buttons for 'Nastavitve', 'Alarmi', 'Master', 'Urniki', and 'Domov'. A 'POTRDI' button is at the very bottom.

Surrounding the smartphone are several smaller screenshots of the SmarteH UI on other devices, showing various control screens like 'URNIK AC KLIME', 'VSI PROSTORI', 'NADSTROPJE 1', 'PORABNIK 1', 'SENČILO 1', and 'DODAJ NAPRAVO'. These screens show different views of the system, including room lists, settings, and control panels.

To the right of the smartphone is a diagram of a Bluetooth Mesh network. It consists of several green circular nodes connected by blue lines. The nodes contain icons for a padlock, a lightbulb, a house, a radiator, and a smartphone, representing different components of the system. Each node also has a small blue signal icon above it.

At the bottom of the image, there are several red icons and text elements: a magnifying glass icon, a LinkedIn icon, a YouTube icon, an '@' symbol, and a telephone icon. Below these icons are the following text elements: WWW.SMARTEH.COM, [USER MANUAL](#), [LINKEDIN](#), [YOUTUBE](#), SALES@SMARTEH.SI, and [+386 5 388 4400](tel:+38653884400).

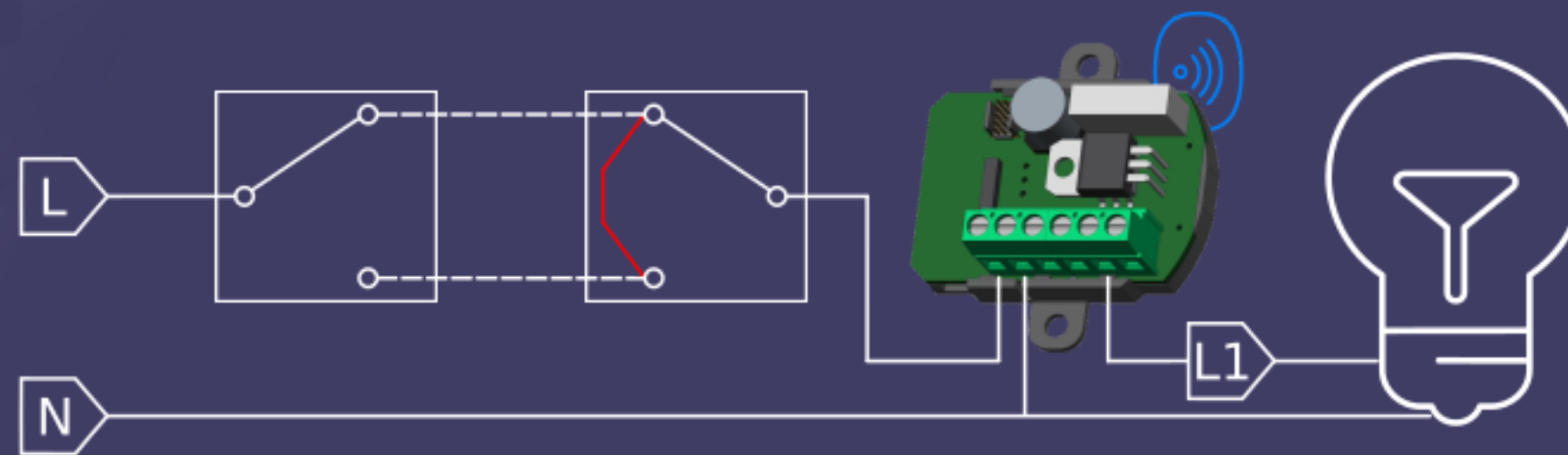
SmarteH Bluetooth Mesh solution advantages

- One wireless and wired automation system for all buildings results in:
 - Best building automation price for new constructions and renovations
 - Optimal energy efficiency
 - Suitable for simple and complex buildings with complex building systems
 - All in one customized supervision and management system
 - Cloud interface
 - Low maintenance costs
- Minimized electrical construction works
- Possibility of using classic or upgrading of existing electrical installation **
- Small size of additional Smarteh Bluetooth equipment matches into classic or existing electrical mounting boxes and electrical equipment
- Satisfactory user experience



** Classic light switch installation

& Wireless control



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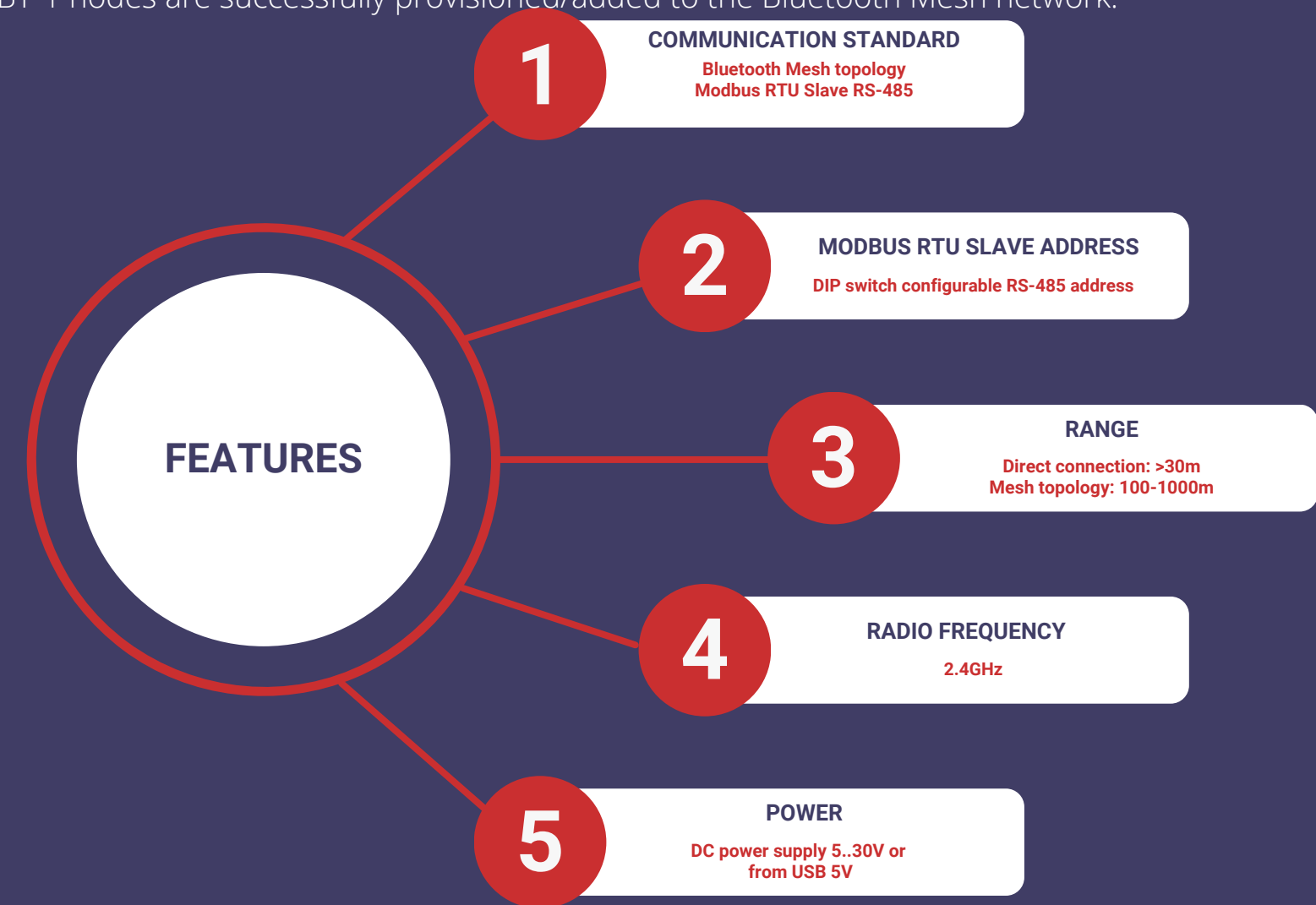
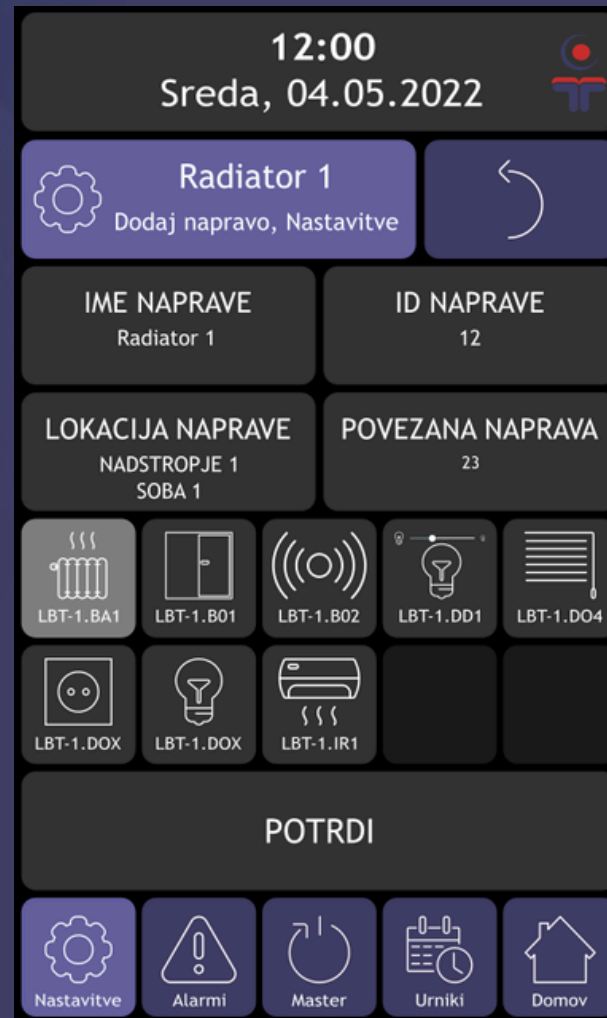
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Modbus RTU Bluetooth Gateway LBT-1.GW1

LBT-1.GW1 Modbus RTU Bluetooth gateway is designed to operate with any PC or any PLC controller if they support Modbus RTU RS485 communication. Beside default 115.2kbps/8N1, also other communication settings are supported. If the PC cannot directly support RS485 communication, it's possible to use an appropriate USB RS485 adapter, for example: Smarteh LSA-2 adapter.

For each Smarteh LBT-1 product such as LBT-1.BA1 BLT Mesh thermostatic valve actuator, LBT-1.B01 BLT Mesh window/door sensor, etc., there is a description of Modbus RTU commands in the corresponding user manual. Using these commands, communication with the nodes can be established after LBT-1 nodes are successfully provisioned/added to the Bluetooth Mesh network.



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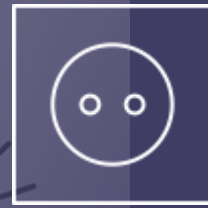
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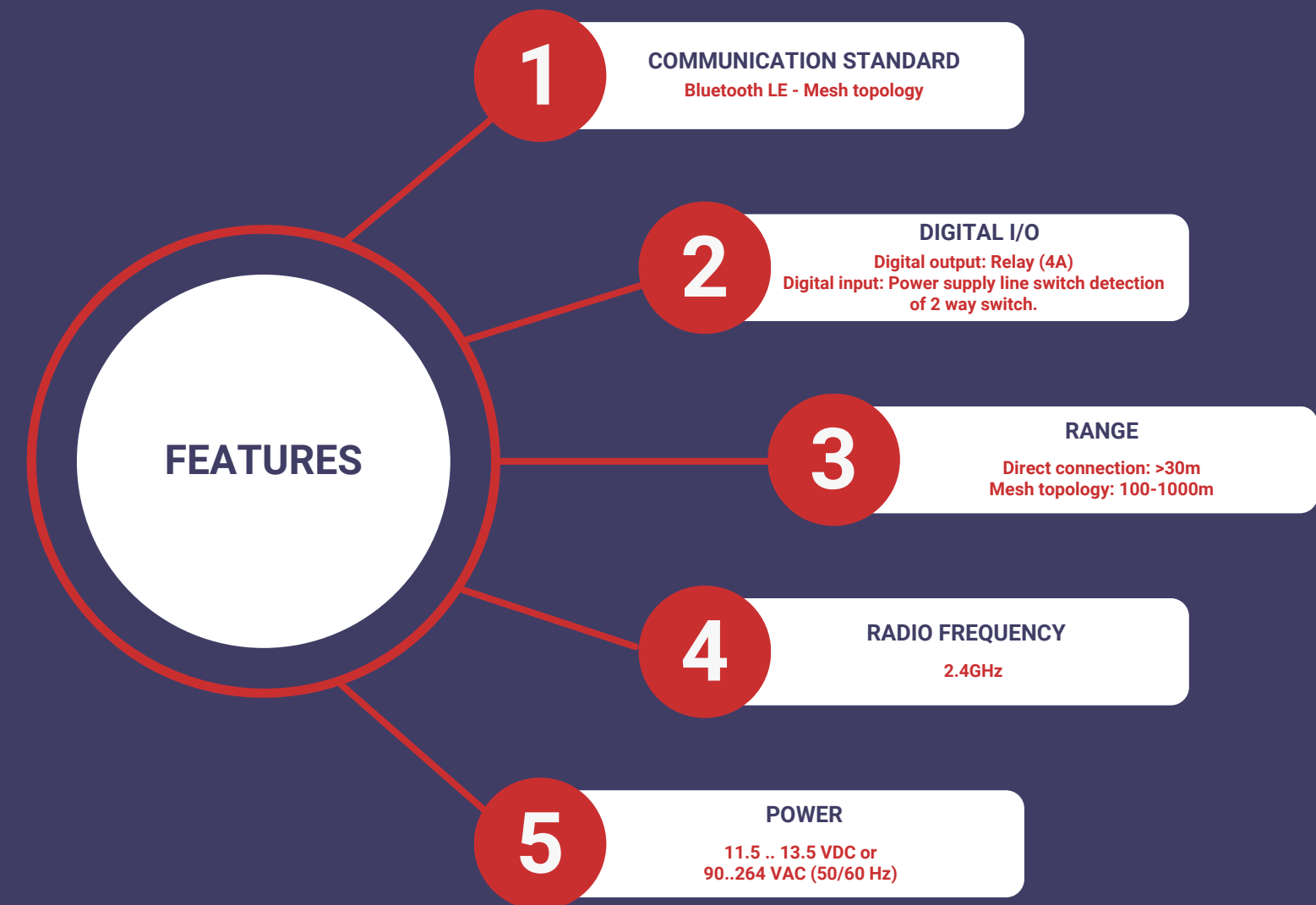
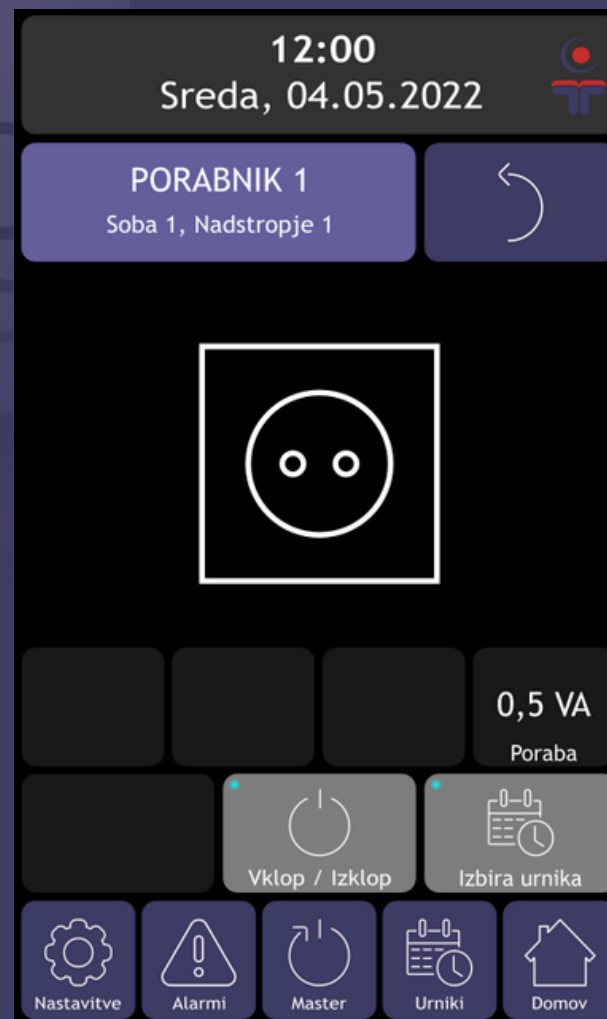


Bluetooth Relay output

LBT-1.DO1

LBT-1.DO1 Bluetooth Mesh relay output module is designed to be used as a relay digital output module with RMS current and voltage measuring possibility. The module can operate with a wide range of DC and AC voltages. It can be placed inside the 60mm diameter flush mounting box and so it can be used for switching On and Off the power supply voltage of standard electric wall sockets.

It also can be placed inside the lights, inside various electrical equipment and devices to switch On and Off their power supply voltage. Additional switch input is provided to have the possibility of manually switching On and Off the module relay.



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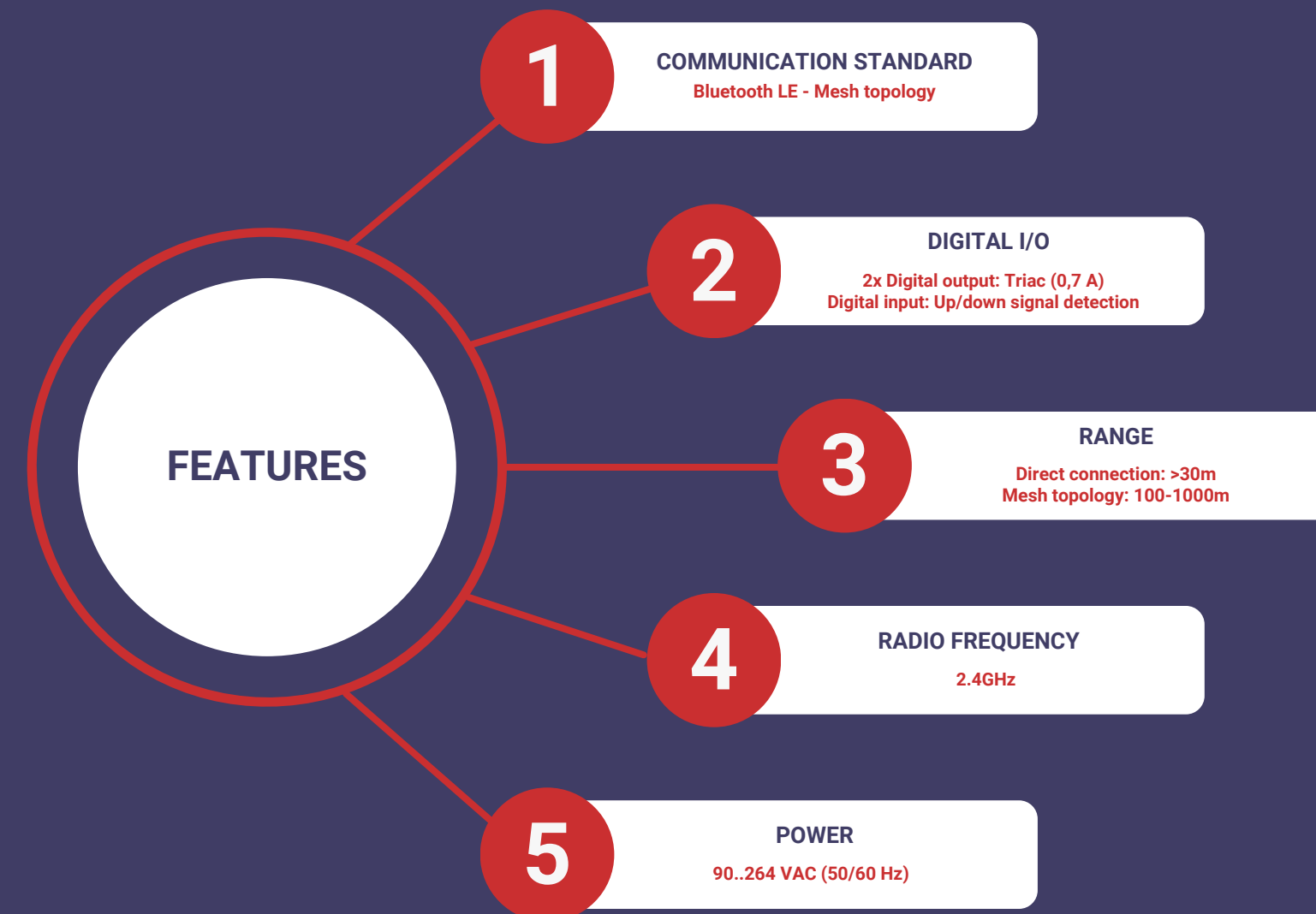
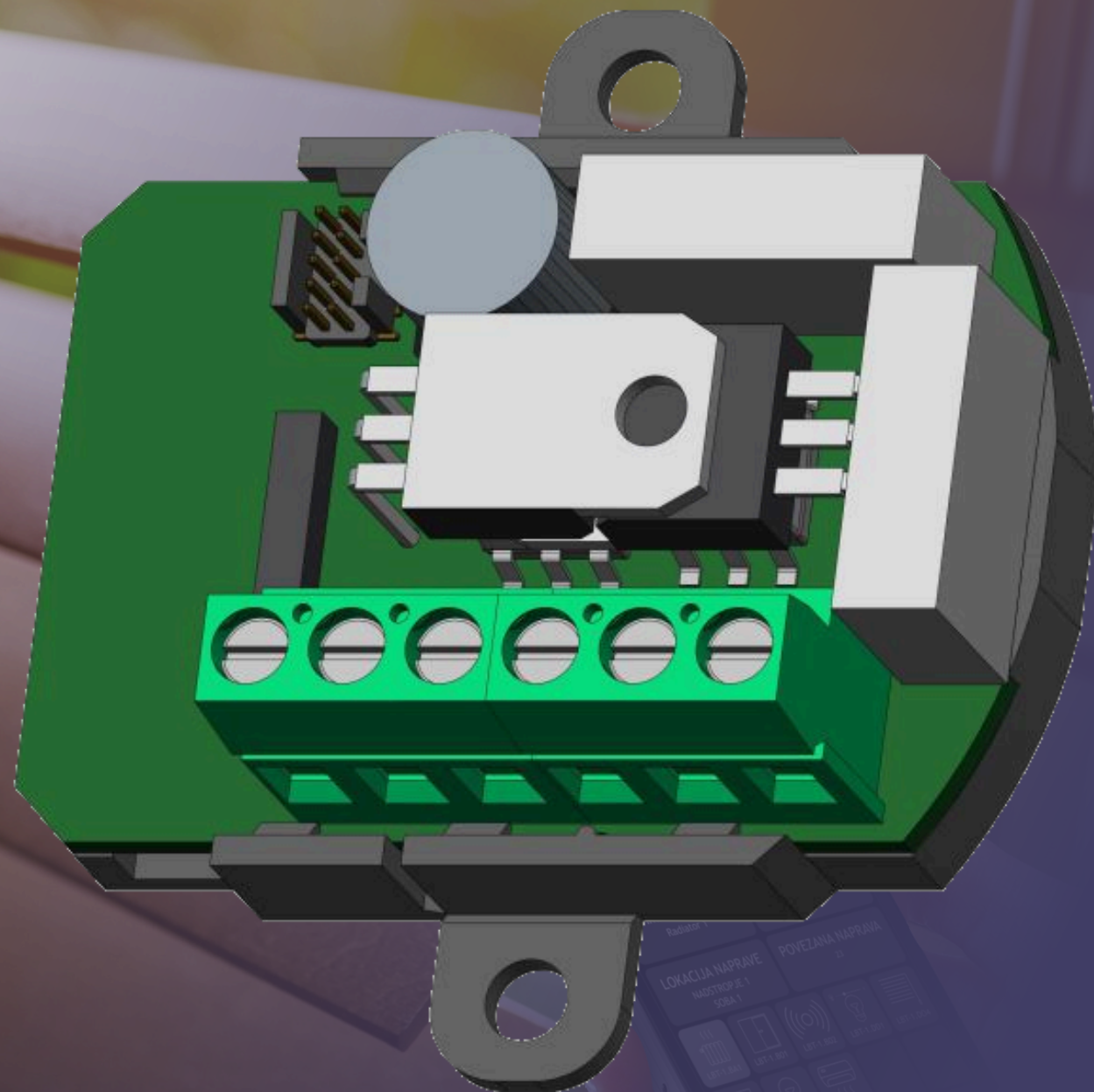


Bluetooth Triac output

LBT-1.DO4

LBT-1.DO4 Bluetooth Mesh two triac output module is designed to be used as a shades or curtains motor control module with RMS current and voltage measuring possibility. The module can operate with a wide range of AC voltages. It can be placed inside the 60mm diameter flush mounting box. It can also be placed close to shades or curtains motor.

Switch input is provided to have the possibility of manually switching On and Off the two triac outputs. This input can detect 50/60 HZ for triac 1 control and 25/30 HZ for triac 2 control. Only one triac output, triac output 1 or triac output 2, can operate at the time.



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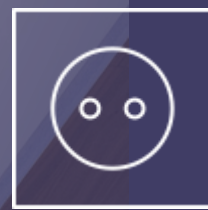
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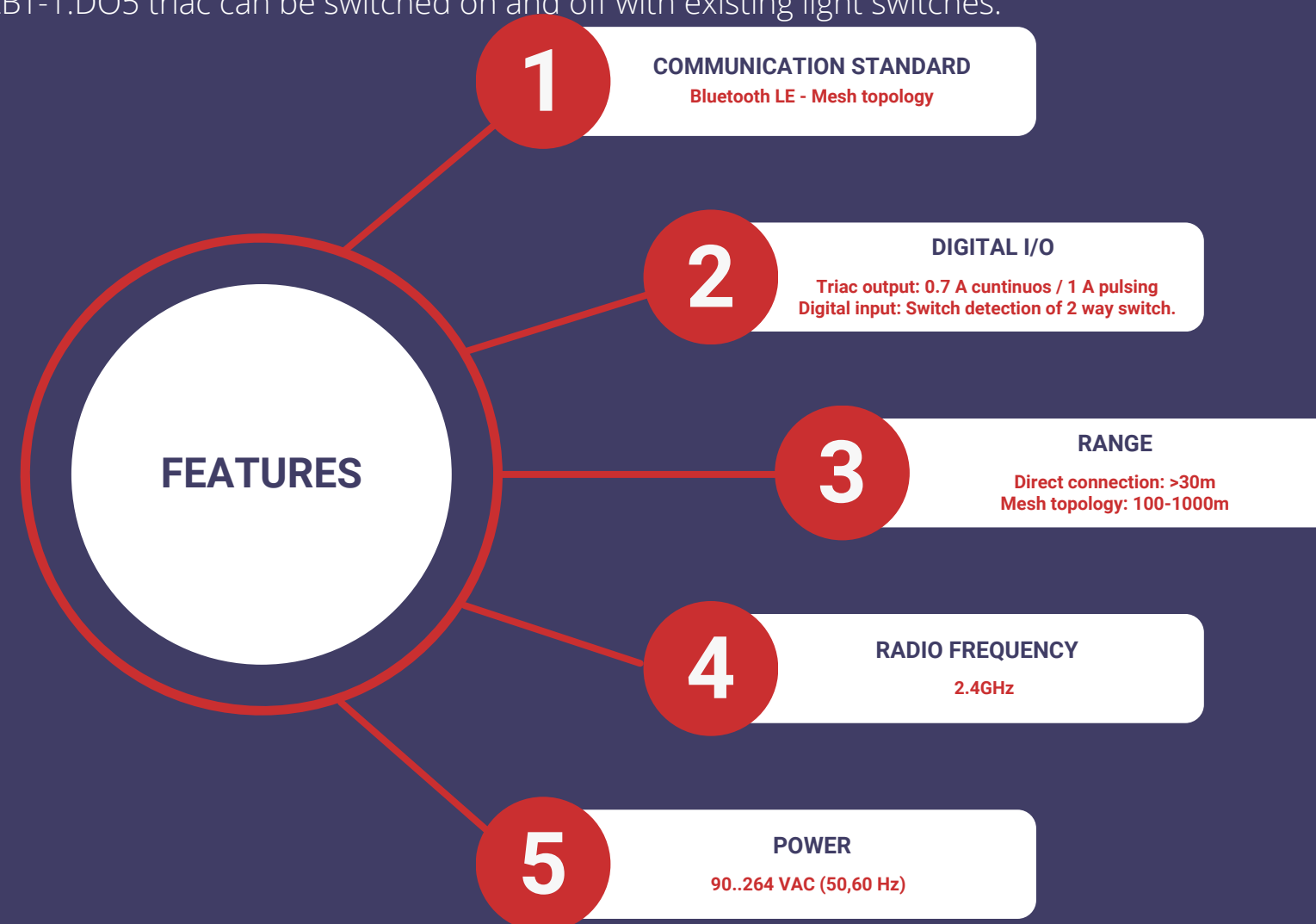


Bluetooth Triac output

LBT-1.DO5

LBT-1.DO5 Bluetooth Mesh triac output module is designed to be used as a triac digital output module with RMS current and voltage measuring possibility. The module can operate with a wide range of AC voltages. It can be placed inside the 60mm diameter flush mounting box. It can also be placed inside the lights, inside various electrical equipment and devices to switch On and Off their power supply voltage.

LBT-1.DO5 Bluetooth Mesh triac output module can also be connected close to the light in the traditional electrical wiring 115/230 VAC for lightning. Light connected to the LBT-1.DO5 triac can be switched on and off with existing light switches.



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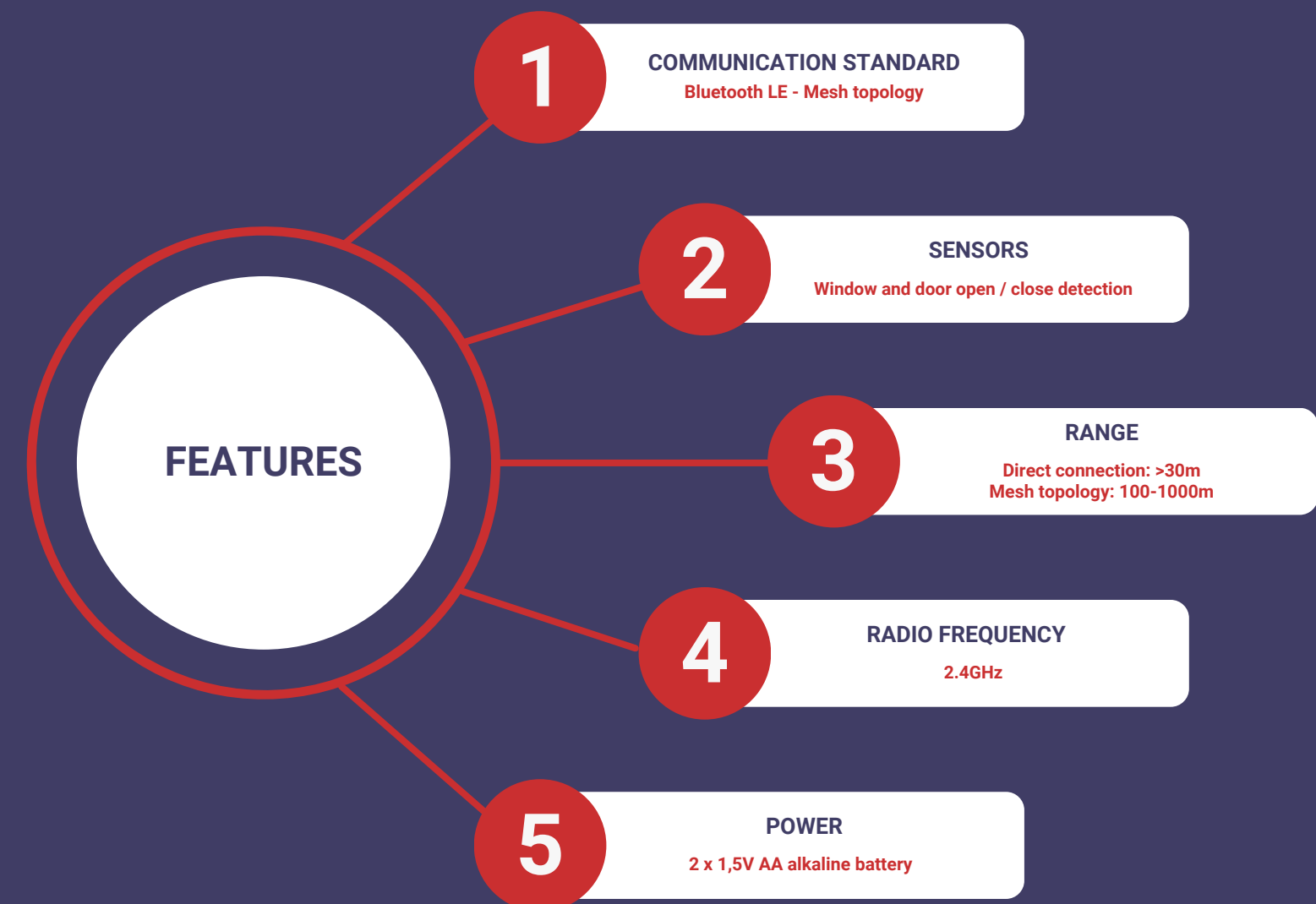
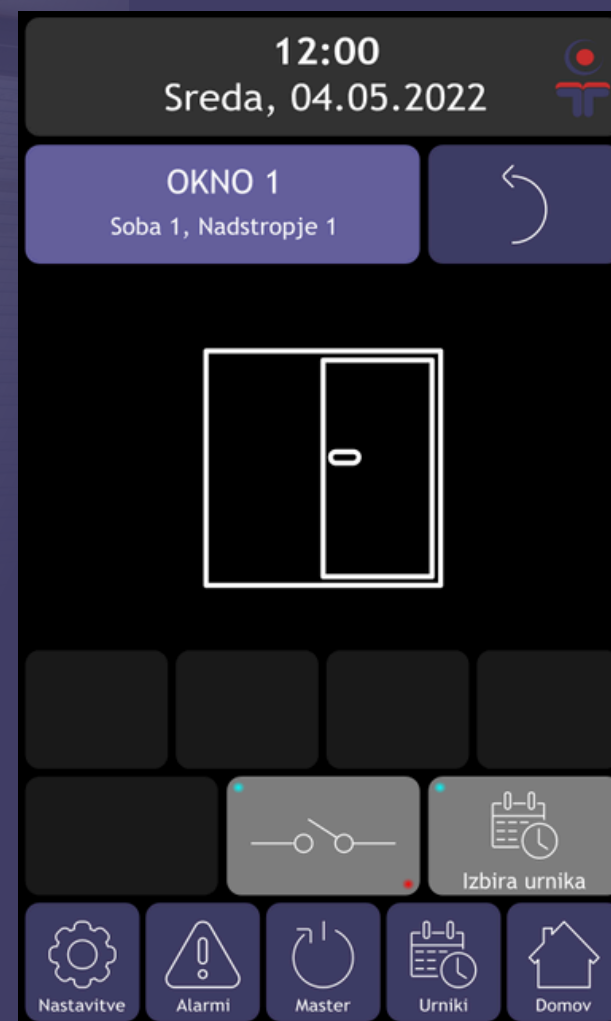


Bluetooth door / window sensor

LBT-1.B01

LBT-1.B01 Bluetooth Mesh window / door sensor is designed to work with any window or door while for detection of opening or closing is performed with an external magnet, which is delivered together with the sensor. Window sensor and a magnet can primary be mounted with double sided glue tape or in addition with a screws provided.

LBT-1.B01 Bluetooth Mesh window sensor transmits the information regarding open/close status and battery voltage level.



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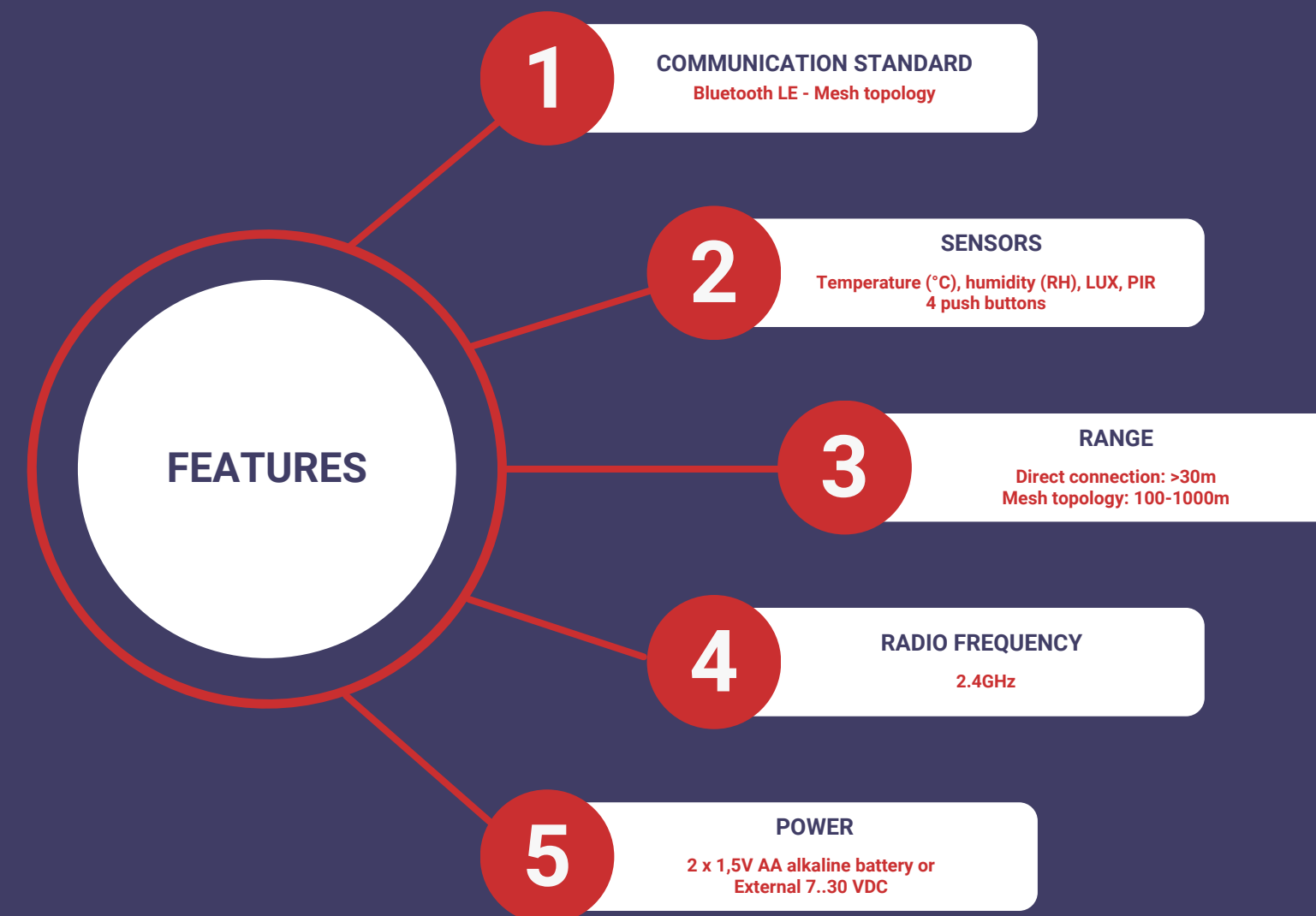
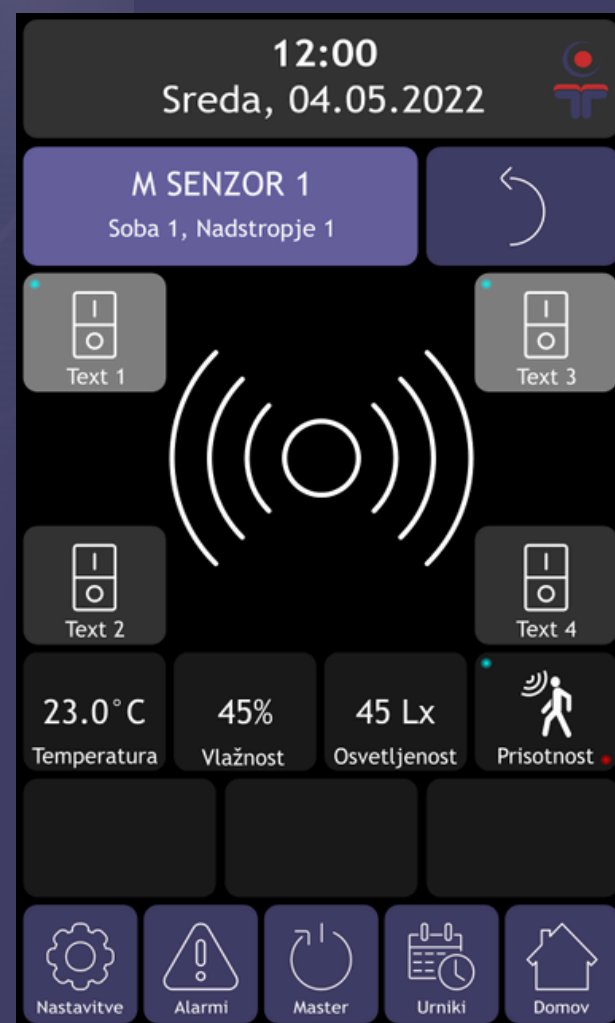
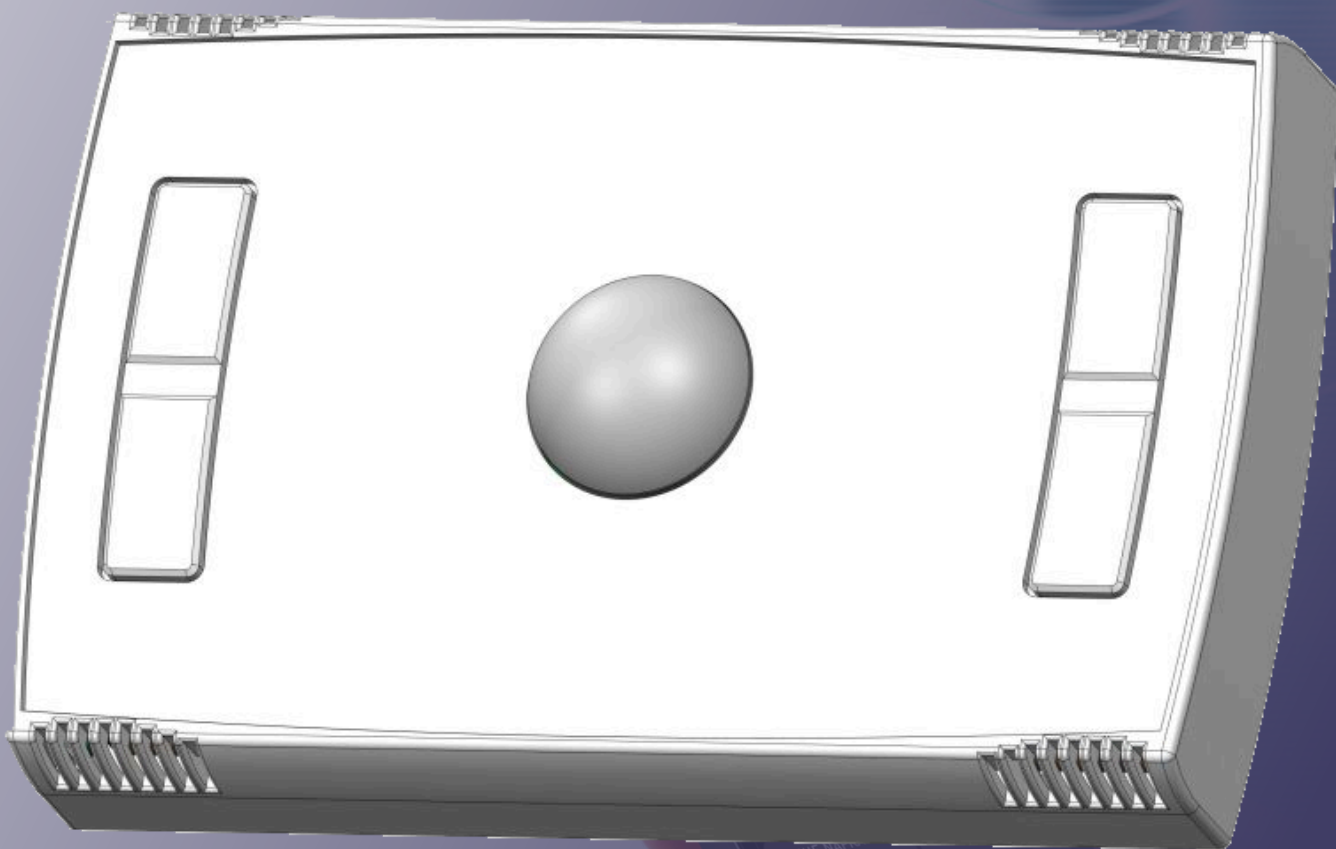


Bluetooth multisensor

LBT-1.B02

LBT-1.B02 Bluetooth Mesh multisensor is designed to measure room temperature, humidity and ambient light intensity. It can detect presence of people with PIR sensor. It is also equipped with 4 push buttons, that can be used for the desired functionality in Bluetooth Mesh network.

Multisensor can primarily be mounted with double sided glue tape or in addition with screws provided. LBT-1.B02 Bluetooth Mesh multisensor transmits information regarding its sensors and battery voltage level.



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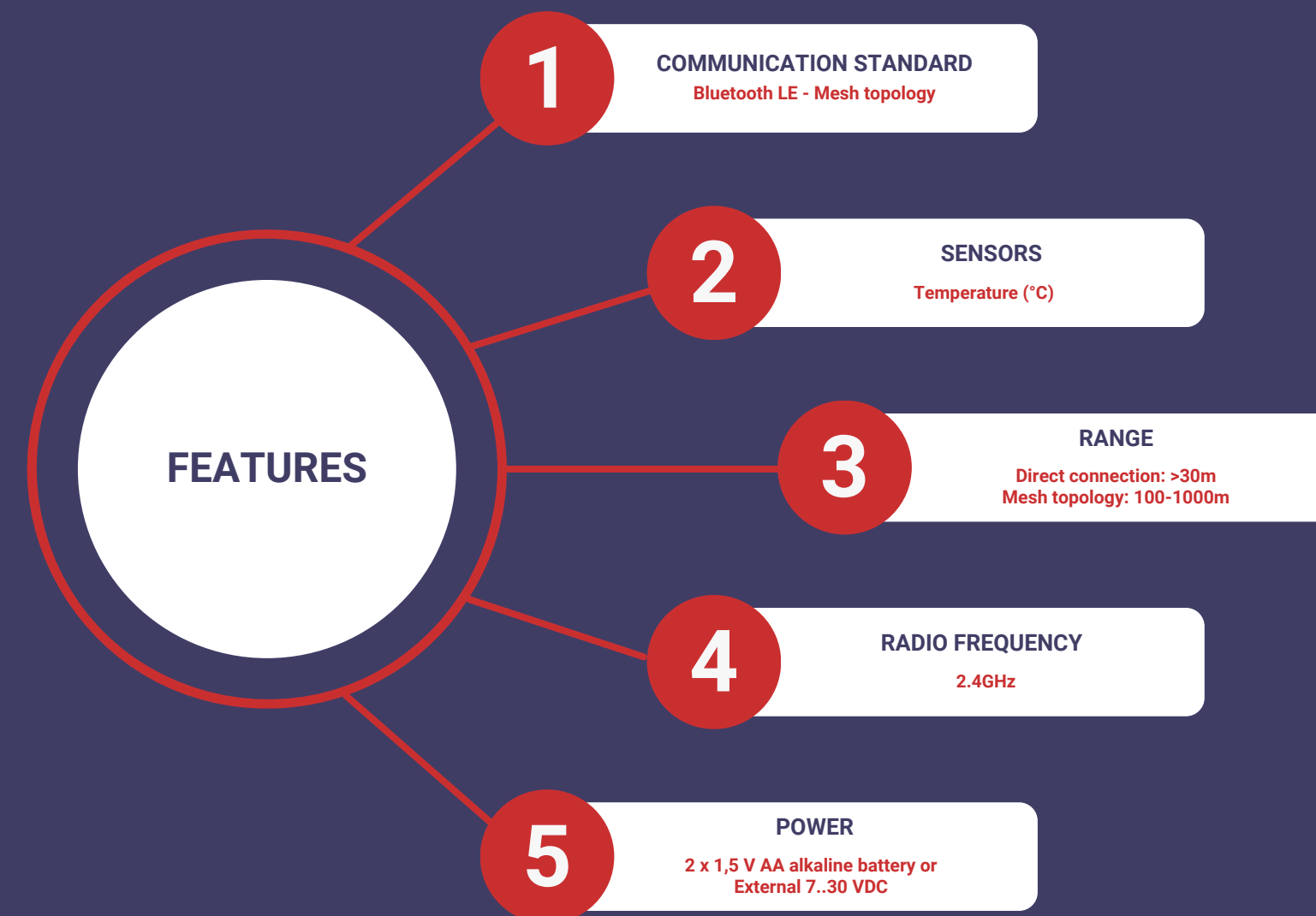


Bluetooth valve actuator

LBT-1.BA1

LBT-1.BA1 Bluetooth Mesh valve actuator is designed to work with various radiator and floor heating valves of different manufacturers. It opens and closes the radiator or floor heating valve to control the water flow and consequently control the temperature in the room.

It is equipped with an M30 x 1.5 mm ring nut connection and it's also possible to get an adapter for other connection types of radiator or floor heating valves.



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