

SALTO BLUEnet Node Wireless BLE Gateways



SALTO BLUEnet Node Wireless BLE Gateways Installation Guide

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SALTO BLUEnet Node Wireless BLE Gateways



Specifications

- **SALTO RFnet Characteristics:**

- Frequency Range: 2400-2483.5 Mhz
- Standard Indoor Radio Range: 10/15m
- Max Output Power: 5dBm

- **SALTO BLUEnet Characteristics:**

- Frequency Range: 2400-2483.5Mhz
- Bluetooth Low Energy Range: 5m/10m
- Max Output Power: 8dBm

- **Power Supply:**

- SALTO RFnet Input Voltage: 7-12V
- SALTO BLUEnet Input Voltage: -20-25V

Product Usage Instructions

Mechanical Installation

Ensure proper cable requirements are met, including the use of recommended cables like UTP CAT5e. Install the SALTO Gateway and up to 6 External RF Nodes per Gateway.

Electrical Installation

- Terminate the RS485 bus with a resistor at the end of the bus.
- Follow the installation example provided, ensuring proper power and data connections.

Signalling

The LED indicator on the device (green for RFnet Node, blue for BLUEnet Node) should be illuminated to indicate

proper power supply.

Operational Test

After installation, verify correct operation by ensuring the RFnet Node or BLUEnet Node is active in SALTO's software.

Maintenance

- Perform operational tests at least once a year as described.
- Keep the device in a safe location.

Radio Information

Environmental factors affect signal range. Install the receiver facing the product antenna for optimal connectivity within 5m – 10m distance.

FAQ

- **Q: How often should I test the unit?**

A: The unit should be tested at least once a year as described in the operational test section.

- **Q: What is the recommended connectivity distance?**

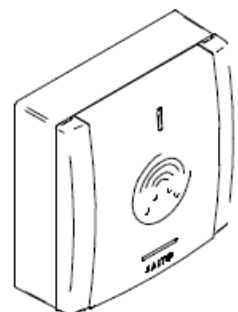
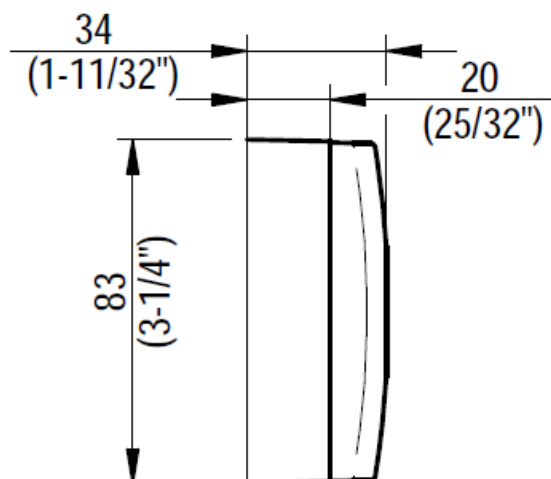
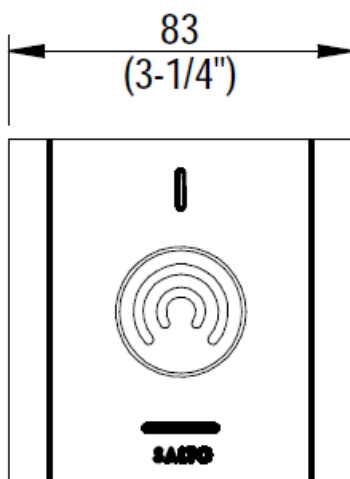
A: The recommended connectivity distance is between 5m to 10m for optimal performance.

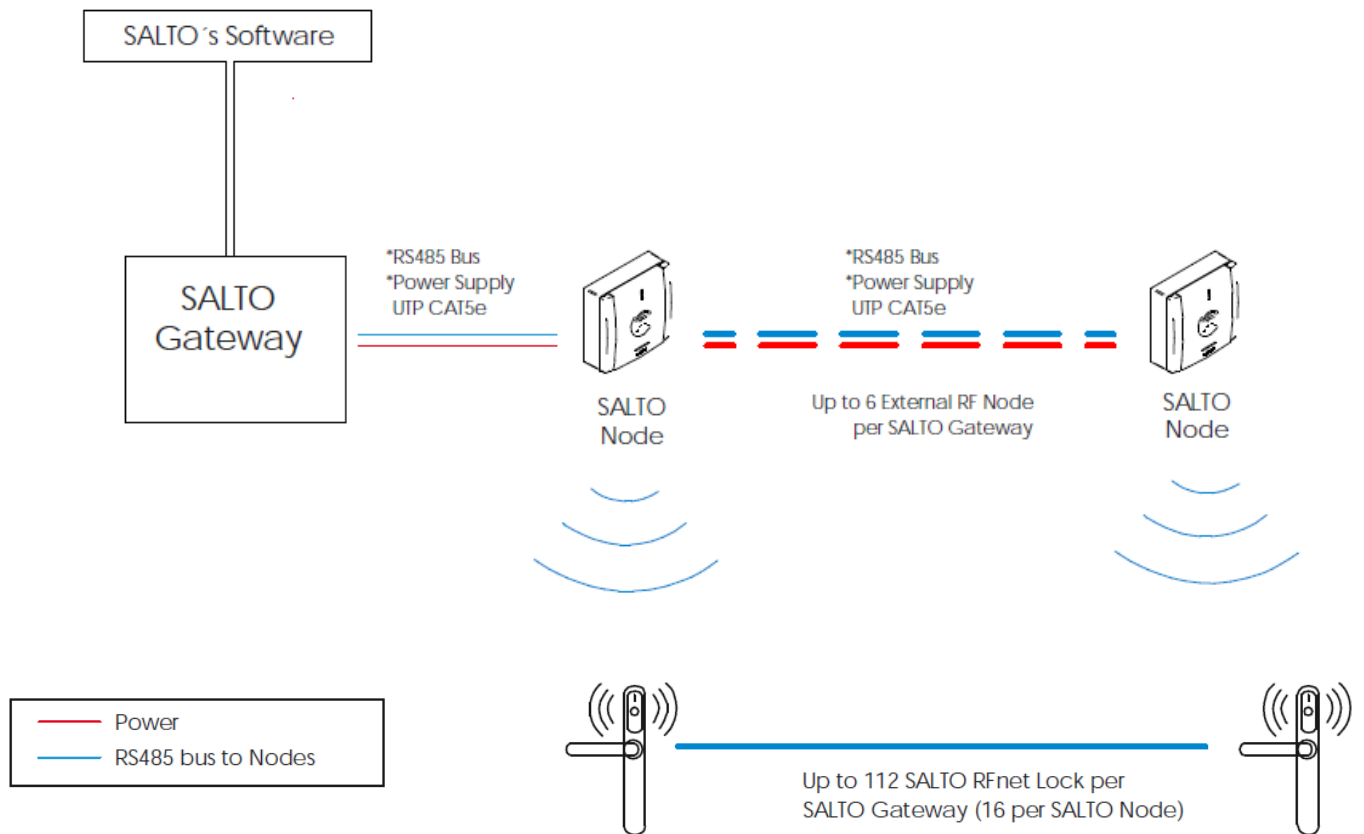
Installation guide

BLUEnet Node and RFnet Node

Installation guide

The BLUEnet Node and RFnet Node are part of SALTO wireless system. They work as a bridge, with the SALTO Gateway, between SALTO's access control software and wireless locks.





Electrical characteristic

Operation conditions

Min		Typ	Max	Unit
Temperature	-20	25	70	°C
Humidity	35		85	

Cable requirements

RS485 Connection (AB) Generic twisted pair wire Note 1
Power Connection (Vdd) 24 AWG

Power Supply for SALTO RFnet

Min		Typ	Max	Unit
Input Voltage	7	12	28	V
Current consumption			45Note 2	mA

Power Supply for BLUENET

Min		Typ	Max	Unit
Input voltage	-20	25	70	°C
Current consumption RFNode			45 Note 2	m A
Current consumption RFNet			75 Note 2	m A

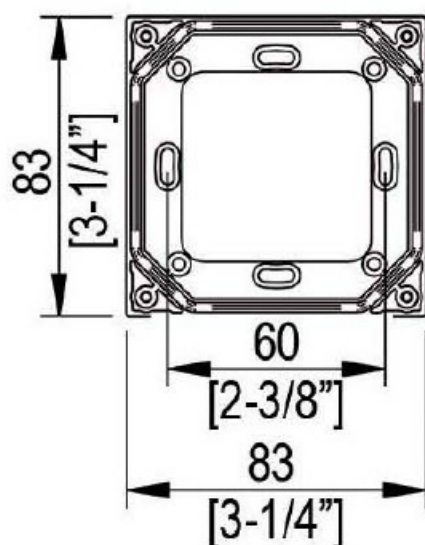
SALTO RFnet Characteristics

<ul style="list-style-type: none"> Frequency Range 2400-2483.5 Mhz Standard IEEE 802.15.4 Indoor Radio Range 10/15m 	
Max output power	5dBm

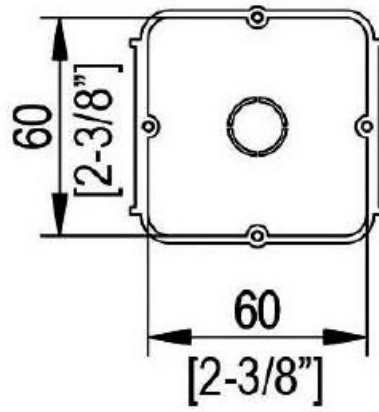
SALTO BLUEnet Characteristics


<ul style="list-style-type: none"> Frequency Range 2400-2483.5Mhz RF Standard Bluetooth Low Energy Indoor Radio Range 5m/10m 	
Max output power	8dBm

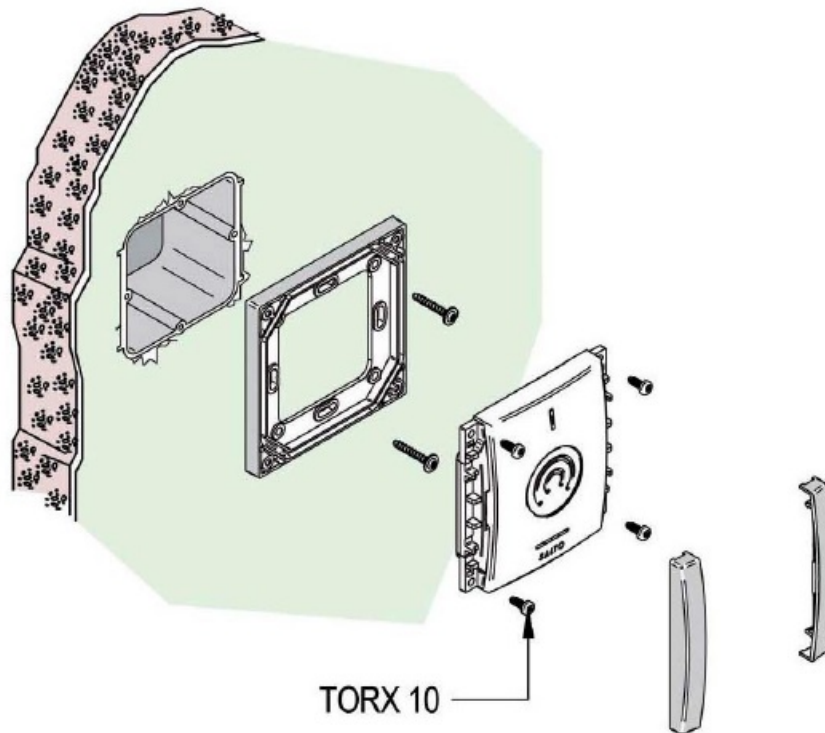
Mechanical installation



1 GANG ELECTRICAL STANDARD BOX

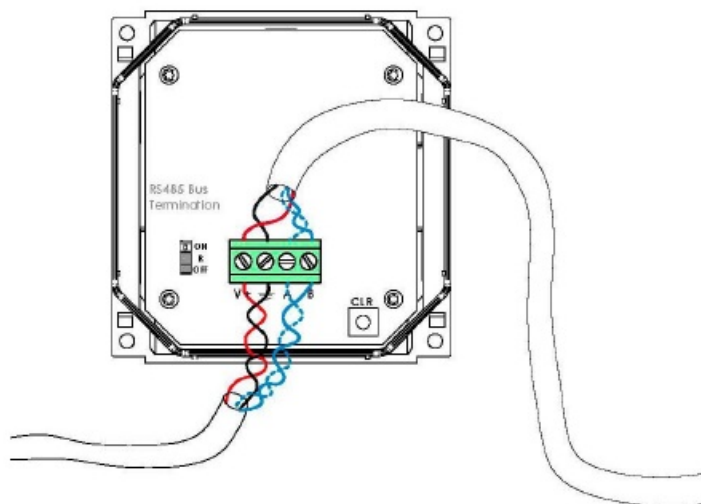


European view 

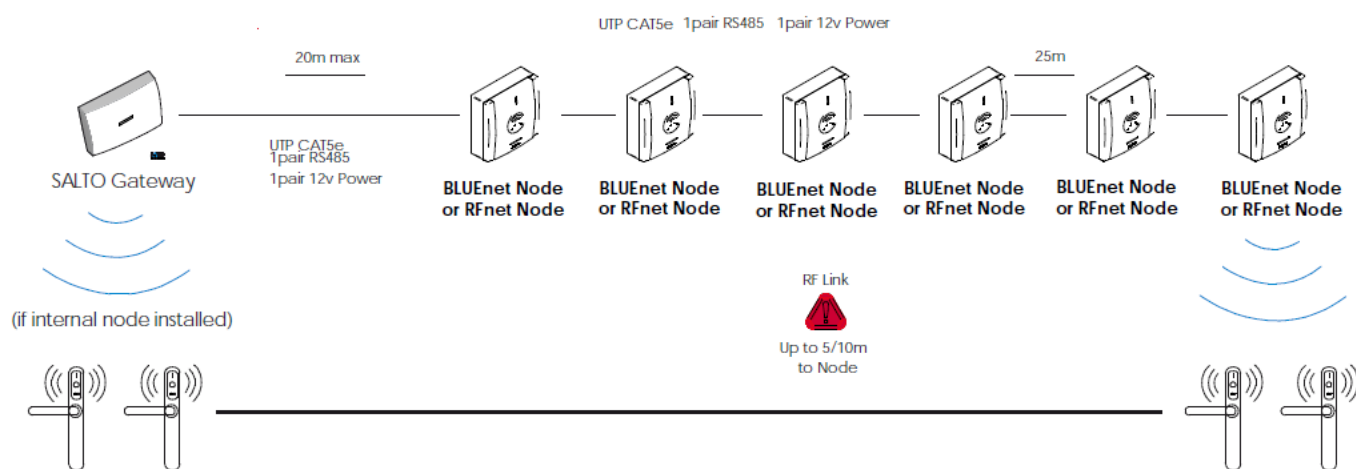


Electrical installation

RS485 bus termination resistor is needed (ON position) when the node is located at the end of the bus.



Installation example



Signaling

The green (RFnet Node) or blue (BLUEnet Node) LED of the device indicates that the device is properly powered.

Operational test

- Once the product is installed, follow these steps to check the correct operation:
- When SALTO Gateway and locks are installed, check that the RFnet Node or blueNET Node is active in SALTO's software.

Maintenance

The unit should be tested at least once a year as described in "Operational test". Keep the device in a safe place!

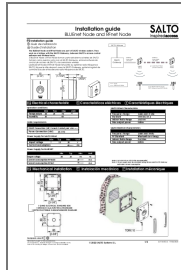
Radio information

- The environment has a direct impact on the range radiation (metal, concrete walls...)
- The receiver device must be located facing the product antenna. Please check your product's device antenna position. Recommended connectivity distance: 5m – 10m

All contents current at time of publication.

SALTO Systems S.L. reserves the right to change availability of any item in this catalog, its design, construction, and/or materials.

Documents / Resources



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BLUEnet Node Wireless BLE Gateways, BLUEnet Node, Wireless BLE Gateways, BLE Gateways

References

- [User Manual](#)

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