

Product data sheet: QBM IoT Gateway for HubSense®

QBM gateway for remote access to qualified Bluetooth mesh networks

Product description

The Inventronics QBM IoT Gateway enables remote access for qualified Bluetooth networks by an Ethernet connection. It can be used for diagnostics, energy monitoring, lighting control and emergency lighting test report collection.

The QBM IoT Gateway arranges a qualified Bluetooth connection with max 200 nodes and allows for bidirectional data exchanged from the LED drivers and sensors present in the qualified Bluetooth mesh network.

The system is easily scalable up by connecting multiple QBM IoT Gateway

In the event of a power outage the QBM IoT Gateway automatically restores network control settings and provides time synchronization for the mesh network.

Product features and benefits

Remote data collection and lighting control
Secure Bluetooth communication
Powered by USB-C (power adapter not included)
2 LEDs indicator for info about connectivity, and communication
White enclosure, with mounting brackets
In case of failure the mesh network remains operational
Collect EL-T test report (functional and duration)
Web server for configuration



Offices Schools Warehouse Factories Retails Sports Hall

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Approbations & Certifications

CE, Bluetooth,

Housing material: plastic

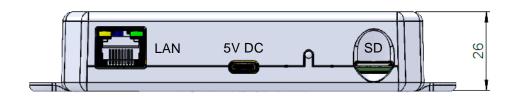
- Qualified Bluetooth mesh
- Secured communication over MQTT by using TLS v1.2 protocol
- Rest API for energy monitoring, presence data download
- Configuration by webserver
- Energy monitoring and maintenance
- Connection to AWS
- Firmware remote update possible
- 2 LED indicators for feedback on connectivity, and communication

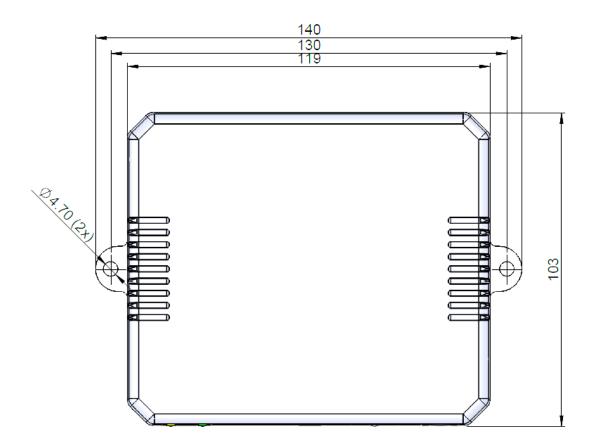
Product Features

Electrical Specifications

Rated voltage 5	
Supply in USB-C N.B. double insulated. N.B. double insulated conformal to IEC62368 Power consumption 1.7 W Typical Max Addio frequency 2.4 GHz Max Tx Power +8dB dBm Wireless protocol Qualified Bluetooth mesh Range 15 m Line of sight Connector type ethernet R,145 Ethernet length cable 30 m Max length indoor Control interface Qualified Bluetooth mesh Number of QBM connected nodes 20 max Number of QBM connected nodes 20 max External memory 64 Mb Store up one week of data for 200 nodes External memory 8 Gb By SD card (not included) Backup time (clock function) 72 hours In case of mains power off (device must be tuned or Manual by button) Reset Manual by button LEDs indicator Mesh status and IP connection Ambient temperature range -20+70 °C Operating humidity 085 % Storage humidity 085 % Storage humidity 095 % Not condensing Expected lifetime 50'000 h Ta=40°C Color White RAL 9010 Material ABS Length 140 mm SD card holder Width 103 mm Height 26 mm Product weight 140 mm SD card holder Mounting brackets 130 mm Axial distance CE ROHS & REACH compliance EN 55032: 2015-07 Electromagnetic compatibility of multimedia equipm requirements	
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CISPR 32 Amd.l: 2019-10	
EN 55032/A1+A11: 2020	
EN 55035: 2017-07 Electromagnetic compatibility of multimedia equipments	nt – Immunity
EN 55035/2017-07 requirements	
ETSI EN 301 489-1 V2.2.3: 2019	
EN 55035/A11: 2020-05 ETSI EN 301 489-1 V2.2.3: 2019 ElectroMagnetic Compatibility (EMC) standard for ra	dio equipment
and services; Part 1: Common technical requirements; Harmonize	d Standard for
ElectroMagnetic Compatibility	
ETSI EN 301 489-17 V3.2.5: 2022 ElectroMagnetic Compatibility (EMC) standard for ra	dio equipment
and services; Part 17: Specific conditions for Broadband and Wide Transmission Systems; Harmonized Standard for El Compatibility	

Version: final - February 2024

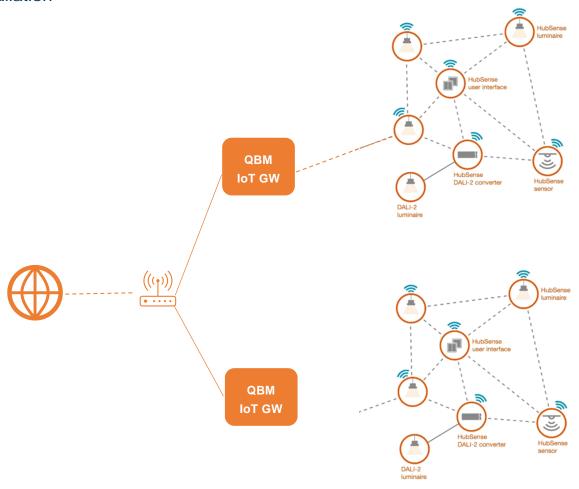




QBM Gateway IoT Edition: final – Apr 2024

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Installation





Additional product information

- By integrating the device into a casing, the wireless range could be affected by metal surfaces. Therefore, the wireless range needs to be verified after integration.
- -The device could be reset to factory default by pressing the button (cfr User Instruction)
- -The status LED of the device indicates following Network status

Green LED Indicator:

- •Success connection: LED indicator flashes 2s at once
- •No connections: LED indicator flashes 0.3s at once

Reset to factory settings:

- LED indicator flashes 1s at once, then quickly flashes and disappears.
- -The device has passed successfully the SILVAIR Testing process.
- -The device can be put into operation using the Inventronics HubSense Commissioning Tool (https://platform.hubsense.eu), subject to prior acceptance of the Terms of Use and the Privacy Policy.
- -Inventronics may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
- -The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact Inventronics (support@inventronicsglobal.com) to receive the actual list of supported models for this device.
- Inventronics shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- Inventronics shall have no liability for and does not make any representations, express or implied, about the connectivity of Inventronics qualified Bluetooth mesh products with any other products, that have passed the SILVAIR Testing process

Ordering Information

Product type	EAN10
QBM IoT Gateway	6977078990820

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