

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 about 200 nodes and allows for bidirectional data exchanged from the LED drivers and sensors present in the qualified Bluetooth mesh network.

System 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



Approbations & Certifications

CE, Bluetooth,

Housing material: plastic

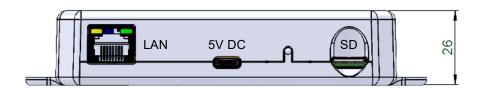
- Qualified Bluetooth mesh
- Secured communication over MQTT by using TLS v1.2 protocol
- Rest API for energy monitoring, presence data download
- Configuration by webserver
- Energy monitoring and maintenance
- Connection to AWS
- Firmware remote update possible
- 2 LED indicators for feedback on connectivity,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

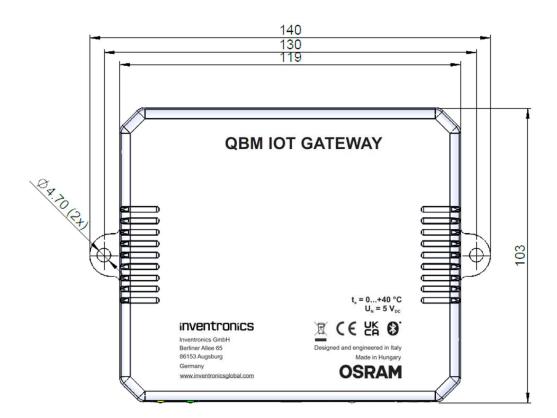
Product Features

Electrical Specifications

	Item	Value	Unit	Remarks
		5	Vdc	Min 2 A
INPUT/ OUTPUT	Rated voltage	5	Vac	
	Supply in	USB-C		Not included
	Dawar canaumantian	5	W	N.B. double insulated conformal to IEC62368
	Power consumption		GHz	tbc
	Radio frequency	2.4		
	Max Tx Power	+8dB	dBm	
l P	Wireless protocol	45		Qualified Bluetooth mesh
Z	Range	15	m	Line of sight
	Connector type ethernet	RJ45		
	Ethernet length cable	30	m	Max length indoor
	Control interface			Qualified Bluetooth mesh
ဟ္ပ	Number of QBM connected drivers	200	max	
	Internal memory	64	Mb	Store up one week of data for 200 nodes
5	External memory	8	Gb	By SD card (not included)
B	Stand by power	5	W	tbc
CAPABILITIES	Backup time (clock function)	YES		
	Installations			Independent
	Reset			Manual by button
	LEDs indicator		1	Mesh status and IP connection
ENVIRONMEN T	Ambient temperature range t _a	-0+40	°C	
	Storage temperature range	-20+70	°C	
	Operating humidity	085	%	
	Storage humidity	0 95	%	Not condensing
	Environment rating	Indoor		
N N	IP rating	IP 20		
	Expected lifetime	50'000	h	Ta=40°C
	Color	white		RAL 9010
₽	Supply in	USB-C		5A,
AND	Material	ABS		
∞	Length	140	mm	
6 5				
ISI		103	mm	
□ □ >	Height	26	mm	
DIMENSIONS	Product weight	200	g	
	Mounting holes	4.70	mm	M5 screws recommended
	Mounting brackets	130	mm	Axial distance
	CE			
	RoHS & REACH compliance			
	EN 55032: 2015-07			Electromagnetic compatibility of multimedia equipment – Emission requirements
	EN 55032/AC: 2016-07			requirements
	CICDD 22 Amed I: 2040 40			
	CISPR 32 Amd.l: 2019-10 EN 55032/A1+A11: 2020			
တ				Electromagnetic compatibility of multimedia equipment – Immunity
NDRDS	EN 55035: 2017-07			requirements
9	EN 55035/A11: 2020-05			
STAN	ETSI EN 301 489-1 V2.2.3: 2019			ElectroMagnetic Compatibility (EMC) standard for radio equipment
S.				
				and services; Part 1: Common technical requirements; Harmonized Standard for
				ElectroMagnetic Compatibility
	ETSI EN 301 489-17 V3.2.5: 2022			ElectroMagnetic Compatibility (EMC) standard for radio equipment
				and services;
				Part 17: Specific conditions for Broadband and Wideband Data
				Transmission Systems; Harmonized Standard for ElectroMagnetic
				Compatibility

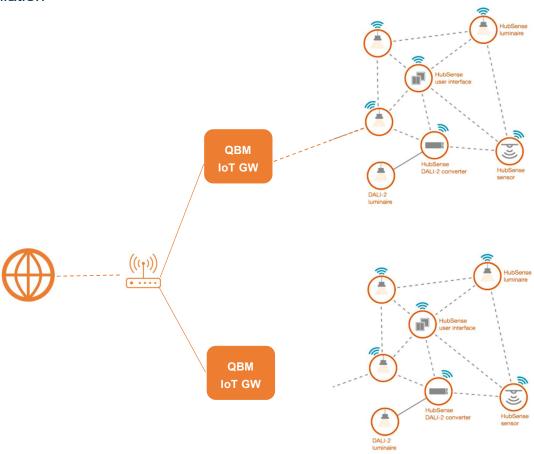








Installation





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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