

# Gateway

## Building-IoT Sensor Solution

### Specification Sheet



### Introduction

As part of the EcoStruxure Building-IoT Sensor Solution, the Gateway is for commercial facilities and building installations. The gateway has a built-in radio to allow for direct communication with sensors in the IoT Sensor Solution product family. Multiple gateways can be installed to support thousands of sensors.

### Features

The Gateway enables communication between the Smart Building and the cloud platform via the internet. The gateway helps ensure autonomous operations, including local storage of sensor data, if the internet connection is down. With its built-in battery back-up, the gateway can shut down safely in case of a

power failure. The gateway supports up to 200 sensors using a secure, encrypted, wireless mesh protocol.

### Seamless BMS Integration

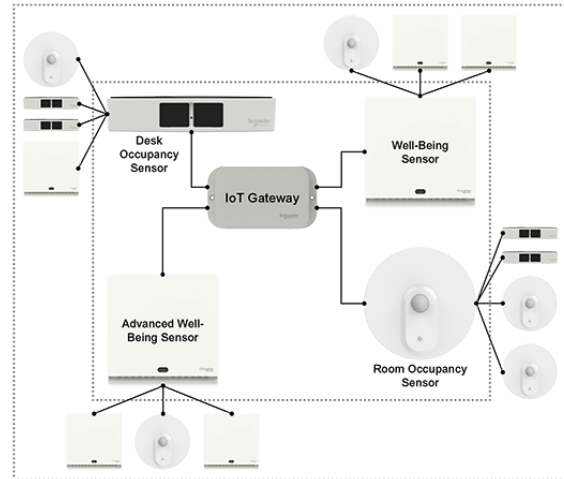
The Ecostruxure Building-IoT Gateway is engineered for exceptional synergy with Building Management Systems (BMS). Featuring local MQTT protocol support, it enables the gateway to integrate smoothly with on-site BMS, facilitating real-time data exchange and enhanced.

### Local Data Storage

Equipped with robust local data storage capabilities, the gateway can securely retain sensors data for up to 30 days. This ensures data continuity and analysis without interruption,

# Gateway

providing a reliable data foundation for insights and decision-making even during network downtimes.



IoT Gateway network diagram

## Specifications

Gateway	
Maximum number of IoT Devices and IoT Networking products supported	
Internet of Things Sensors	200
Material	
Enclosure	Plastic casing with internal antenna for Wi-Fi/Bluetooth. One SMA port for LTE.
Mechanical	
Dimensions	150 L x 85 W x 40 H mm (5.9 L x 3.3 W x 1.6 H in)
Weight	185 g (0.4 lb)
Electrical	
Power	9 - 36 V Power over Ethernet (PoE) sink
Hardware	
RAM	1 GB DDR4
Storage capacity	8 GB eMMC
Connectors	1 x RS485 1 x USB 2.0 Connector, Type-A 1 x 9V - 36V power supply
Wireless connectivity	
Connectivity	LAN, Wi-Fi 2.4 and 5.0 GHz
Communication protocol	2.4 GHz, Sensor Network supporting Mesh Technology
Antenna, type	Omnidirectional, internal
Cellular connectivity	1 x LTE Cat 4 Worldwide + GPS (with fallback on 3G/2G)

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Protocols	
Communication protocol	MQTT
Network Connectivity Requirements	
Connectivity requirements	The Gateway needs a network with a DHCP server to get IP addresses assigned. The Internet connection only requires outgoing port 443. The Gateway connects automatically to the cloud server.
Environment	
Environmental conditions	Indoor use only
Ambient temperature, operating	0 to 50 °C (32 to 122 °F)
Ambient temperature, storage	-20 to 65 °C (-4 to 149 °F)
Humidity	0 to 95 % (non-condensing)
Installation	
Mounting	Wall-mounted
Installation equipment, included	Mounting tape, screws, installation instructions
Agency compliances	

Region:	US	CAN	EU	AS/NZ
Standards, regulations, and certifications:	FCC part 15 class B FCC part 15.247 Subpart C	ICES-003 Issue 7 ISED RSS-247 Issue 2 RF exposure RSS-102 (ISED)	RoHS 2011/65/EU and 2015/863/EU REACH 1907/2006/EC UKCA Conducted and Radiated: EN 300 328 v2.2.2 EN IEC 62368-1:2020 + A11:2020 EN 301 489-1 v2.2.3 and draft EN 301489-17 v3.2.4 Low power SAR test exclusion of IEC62479:2010 Mobile or Fixed RF-Exposure conditions: EN 62311:2008 EN 18031-1:2024	AS/NZS 4268:2017 + Amd1 2021 AS/NZS 2772.2:2016+A1:2018 AS/CA S042.1: 2020 AS/CA S042.4: 2018 AS/NZS 62368.1: 2018

## Part numbers

Product	Part number
EcoStruxure Building-IoT Gateway <sup>ab</sup>	EBIOTPGW

a) Country-specific power supply adapter included. Not applicable in Singapore and Hong Kong where PoE is recommended.

b) Mounting tape, screws and installation instructions.

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## Disclaimer

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Specifications are subject to change without notice.

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