

# SpaceLogic Wireless Adapter - Advanced Adapters

## EcoStruxure™ Building

### Introduction

SpaceLogic™ Wireless Adapter - Advanced is a USB-based wireless adapter that enables Zigbee™ wireless connectivity for your SpaceLogic BACnet/IP controller or automation server, extending its point count and bringing flexibility in your retrofit applications. The adapter can be used with BACnet/IP controllers such as the RP controllers as well as automation servers such as the AS-P and AS-B servers.

An automation server equipped with the adapter can communicate over the Zigbee wireless protocol with up to 164 wireless devices, depending on the type of Zigbee device and the radio bandwidth usage of the device. An RP controller equipped with the adapter can communicate with up to 30 wireless devices.



For information on the supported wireless devices, see section “Supported Wireless Devices”.

The adapter allows post-commissioning selection of one of the 16 channels of operation in the 2.4 GHz band to improve signal transmission and reception.

The adapter works seamlessly within EcoStruxure Building Management systems so that Zigbee objects become easily available to the user.

The adapter's compact design allows it to plug in to RP controllers or automation servers in tight spaces and the optional mounting cradle, wall plate, and USB cable extension allow for the choice of a wall, ceiling, or exterior of the enclosure mount to

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maximize the transmission and reception of signals from distributed Zigbee devices.

In WorkStation, the firmware of the adapter will be automatically updated when you update the RP controller or automation server to which it is connected.

## Features

The adapter has the following features:

- Zigbee Certified Product (with RP controllers, AS-P and AS-B servers)
- Zigbee 3.0
- Compact design and easy to install
- Multiple mounting options
- Integrated 2.4 GHz antenna
- Wireless communication distance:
  - Line-of-sight range: Up to 50 m (164 ft)
- Allows post-commissioning channel change of the network
- Configuration and firmware update through EcoStruxure Building Operation software

## Part Numbers

Product	Part number
SpaceLogic Wireless Adapter - Advanced	SXWZBAUSB10001
USB Adapter Cradle Kit Includes plastic mounting cradle and wall plate	SXWUSBCRA10001
USB Extension Cable 1 m (3 ft) Includes USB extension cable of length 1 m (3 ft)	SXWUSBCBL10001
Plenum Rated USB Extension Cable 3 m (10 ft) Includes plenum rated USB extension cable of length 3 m (10 ft)	SXWUSBCBL10002

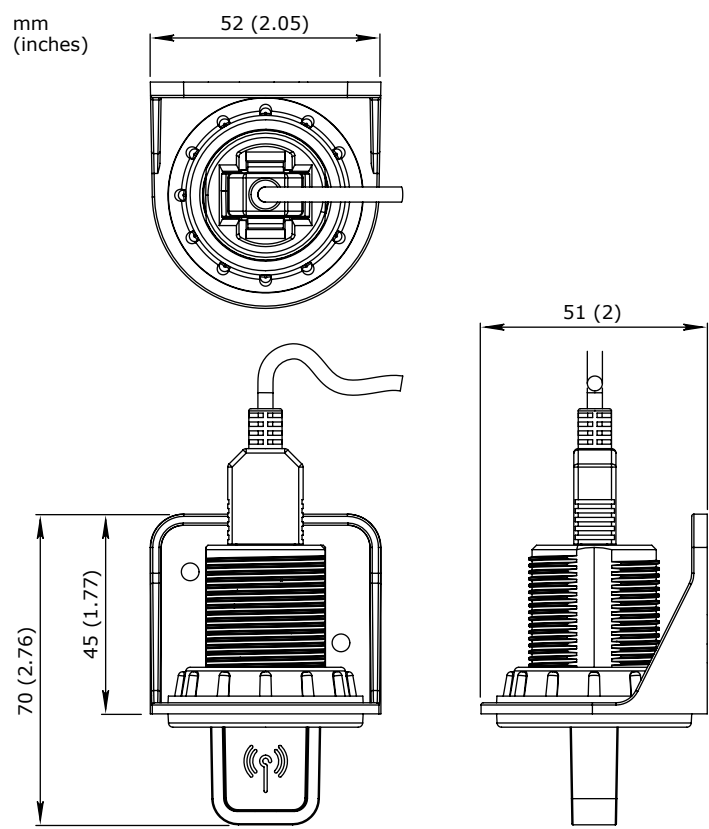
## Specifications

SpaceLogic Wireless Adapter - Advanced	
Electrical	
DC input supply voltage	5 VDC (USB) <sup>a</sup>
a) Connected to and powered by the USB 2.0 host port on the RP controller or automation server.	
Maximum power consumption	0.3 W
Wireless connectivity	
Communication protocol	Zigbee 3.0
Frequency band	2.4 GHz (ISM band), compliant with IEEE Standard 802.15.4
Maximum output power	+10 dBm
Maximum communication distance	Line-of-sight: 50 m (164 ft)
Antenna	Integrated antenna
Maximum total number of hops allowed in the wireless network	5
Wireless device limits for an RP controller	
Maximum total number of wireless devices connected to the wireless network	Up to 30 <sup>a</sup>
a) The maximum number depends on the type of Zigbee device and the radio bandwidth usage of the Zigbee device.	
Maximum total number of SE8000 and VT8000 room controllers	4
Maximum total number of Zigbee end devices paired with an RP controller	20

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Maximum total number of ASSA ABLOY VingCard electronic locks	1
Wireless device limits for an automation server	
Maximum total number of wireless devices connected to the wireless network a) The maximum number depends on the type of Zigbee device and the radio bandwidth usage of the Zigbee device.	Up to 164 <sup>a</sup>
Maximum total number of Zigbee routers and Zigbee end devices	64
Maximum total number of Zigbee Green Power devices	100
Maximum total number of Zigbee end devices paired with an automation server	20
Environment	
Ambient temperature, operating	0 to 50 °C (32 to 122 °F)
Ambient temperature, storage	-40 to +70 °C (-40 to +158 °F)
Humidity	Maximum 95 % RH non-condensing
Material	
Plastic flame rating	UL94 HB
Plenum rating	UL 2043
Ingress protection rating	IP 20
Mechanical	
Dimensions, adapter	See drawing below
<div> <div> <div>mm (inches)</div> <div> <div>60 (2.35)</div> <div>47 (1.85)</div> </div> </div> <div> <div>20 (0.79)</div> <div> <div>11 (0.44)</div> <div>10 (0.39)</div> </div> </div> </div>	
Dimensions, mounting cradle and wall plate	See drawing below

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Weight

Adapter: 7.57 g (0.267 oz)  
 Cradle and nut: 21.35 g (0.753 oz)  
 Cradle, nut, and wall plate: 33.40 g (1.178 oz)

Installation	Connection to USB host port on RP controller or automation server Indoor use only
Installation options	Enclosure exterior Drop ceiling with mounting cradle (optional) Wall with wall plate (optional)
Maximum USB 2.0 cable length	3 m (10 ft)
Software requirements	
EcoStruxure Building Operation software	version 3.2 and later
EcoStruxure Building Commission mobile application software	version 4.0 and later
RP-C controller firmware	version 3.02.xx or higher
AS-P server firmware	EcoStruxure Building Operation software version 3.2 and later
AS-B server firmware	EcoStruxure Building Operation software version 3.3 and later
Agency compliances	
EMC	EN 301 489-1 V2.2.3; EN 301 489-17 V3.2.2; BS/EN 55032:2015; BS/EN 55035:2017; FCC Part 15, Sub-part C, Class B; ICES-003, Class B
Radio	ETSI EN 300 328 V2.2.2
Safety standards	BS/EN 62368-1:2014; BS/EN 62311:2008; BS/EN 62479:2010



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FCC ID	QQQ13
ISED certification number	IC: 5123A-13
Hardware	
CPU type	ARM Cortex-M4 with Floating Point Unit (FPU)
Frequency	38.4 MHz
SRAM (embedded)	64 KB
Flash memory (embedded)	512 KB
Connectors	USB 2.0, type-A connector

## Supported Wireless Devices

For information on the wireless devices that are supported by the wireless network, see the document SpaceLogic Wireless Connectivity – Advanced; Supported Devices.

The import files for supported wireless devices can be found in the Schneider Electric BMS Applications web portal ([bms-applications.schneider-electric.com](https://bms-applications.schneider-electric.com)).

In EcoStruxure Building Operation software version 4.0 and later, additional Zigbee 3.0 wireless devices can be supported using the Zigbee Wireless Device Support Service. For information on how support for Zigbee 3.0 devices can be added in the EcoStruxure Building Operation software through this service, see the document PA-00842 - New Service for Zigbee Device Support in EBO.

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## Regulatory Notices



### Federal Communications Commission

FCC Rules and Regulations CFR 47, Part 15, Class B

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: QOQ13

### Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC: 5123A-13



### Regulatory Compliance Mark (RCM) - Australian Communications and Media Authority (ACMA)

This equipment complies with the requirements of the relevant ACMA standards made under the Radiocommunications Act 1992 and the Telecommunications Act 1997. These standards are referenced in notices made under section 182 of the Radiocommunications Act and 407 of the Telecommunications Act.



### CE - Compliance to European Union (EU)

2014/53/EU Radio Equipment Directive (RED)

2011/65/EU Restriction of Hazardous Substances (RoHS) Directive

2015/863/EU amending Annex II to Directive 2011/65/EU

This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s).



### WEEE - Directive of the European Union (EU)

This equipment and its packaging carry the waste of electrical and electronic equipment (WEEE) label, in compliance with European Union (EU) Directive 2012/19/EU, governing the disposal and recycling of electrical and electronic equipment in the European community.



### UK Conformity Assessed

S.I. 2017/1206 - Radio Equipment Regulations 2017

S.I. 2012/3032 - Restriction of the Use of Certain Hazardous Substances in Electrical and

Electronic Equipment Regulations 2012

S.I. 2013/3113 - Waste Electrical and Electronic Equipment Regulations 2013

This equipment complies with the rules, of the UK regulations, for governing the UKCA Marking for the United Kingdom specified in the above directive(s).



Zigbee Certified Product

[www.se.com/buildings](http://www.se.com/buildings)

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