SWYCS

SWYCS Gateway datasheet

Interoperable and multi-protocol IoT gateway for Smart buildings

🇬🇧 English version

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Description

The unique multiprotocol SWYCS Gateway allows for wireless devices, that use different protocols, to communicate with each other. SWYCS supports the wireless protocols ZigBee, Z-Wave, BLE and EnOcean.

SWYCS developed a software bridge and API's to make it all work. KNX, Modbus and PLC devices can additionally be switched to a wireless signal using a converter and thus be integrated into the IoT platform. The gateway is installed by using an easy 3-step installation wizard.

Applications
- Building Automation
- Smart Buildings

Product features
- Interoperable and multi-protocol connectivity
- Supports all common IoT protocols
- Applicable in various types of buildings supported by the SWYCS IoT cloud platform
- Plug and Play
- Secure operation
- 100% guaranteed availability: internal battery + data backup

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Specifications

Hardware system	
Processor	AM335x 1GHz ARM®
Operating system	Linux 5.4 LTS
System memory	512MB DDR3 SDRAM
Storage	4GB eMMC Flash memory
Front panel	Power, LAN, PAN, WLAN indicator LED
Back panel	1 10/100Mbps Ethernet port, 1 reset button, 1 DC- in jack, 868 MHz antenna 2 pieces, 2.4 GHz antenna 3 pieces

Interfaces	
LAN	10/100 RJ45
WiFi	DualBand, frequency 2.4 GHz and 5GHz (optional dongle)
EnOcean	RF module 868 MHz
ZigBee	ZigBee controller, frequency 2.4 GHz, Antenna diversity
Z-Wave	Z-Wave module, frequency 868 MHz
Bluetooth	Ultra low power, version 4, frequency 2.4 GHz
Cellular	Optional external 4G modem
USB	High performance USB 2.0
LoRaWAN	Semtech SX1301/2-based LoRa Concentrator
Modbus	USB dongle
BACnet	BACnet/IP over LAN, BACnet MS/TP via USB dongle
KNX	KNXnet/IP over LAN, KNX TP1 via USB dongle

Physical characteristics	
Ingress Protection	IP20
Housing	Plastic chassis
Dimensions	225mm(W) x 30mm(H) x 140mm(D) (8.86" x 1.18" x 5.51")
Weight	400g
Mounting	Built-in wall mountable holes
Operating temp	0ºC ~ 50ºC
Storage temp	-20ºC ~ 70ºC
Relative humidity	0% ~ 90% @ 40ºC (non-condensing)

Power supply & consumption	
Input	5V DC - in 2A
Consumption	1.8 watt in running mode
Battery	Lithium polymer (LiPO) rechargeable battery 1300 mAh, emergency power with a runtime of at least 60 minutes

Approvals	
Regulatory	CE

SWYCS

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