

SYCRASTATION GWW1

Edge Computing multi-protocols Powerful Gateway

The SycraGW is a powerful edge computing and multiprotocol gateway that hosts the SycraCC Management Software and insures the normal operation of the entire installation.

Among other tasks, SycraGW:

- Collects, analyzes, and uploads data to the cloud server through its secure access;
- Stores (if needed), Consolidates information and generates reports for the different level users;
- Troubleshoots, monitors and manages (through commands) all connected equipment;

SycraGW uses several communication protocols that can be customized and adapted to the site's needs and requirements and can be updated through OTA (Other-The-Air).

Features

- Quad core Cortex-A7 dual core @1GHz processor
- 1Gb (up to 2Gb) DDR3 RAM
- 8Gb (up to 32 Gb) onboard Flash eMMC
- Up to 128Gb Micro-SDHC internal memory
- Up to 128Gb Micro-SDHC externally accessible memory
- MQTT, Bacnet and Modbus over Ethernet
- Real Time Clock (72 Hours backup)
- Linux embedded & JVM
- OTA Upgrade capable
- Compliant to OSGI
- Sycra CC and other software package
- MQTT publication/subscription

Applications

- Multi-protocol gateway for cloud services
- Mesh Networks management
- IoT-System
- Indoor and Outdoor use

Technical data

Input Voltage	5,5 ~ 24 VDC (external 12V battery backup suggested 3,8 A rated)
Internal Battery (Optional)	3,7V 2000mAh LiPo Battery
Battery runtime	6hrs @1GHz / 18hrs @350 MHz)
Max Current	2.5A
Size (mm)	159 x 90 x 58 (without antennas)
Material	ABS
Finish	White or Cream
Mounting Type	9M DIN-RAIL mount and screws wall mount
Cable length	1 Meter
Weight	0.5kg
Front Connectors	<ul style="list-style-type: none"> • 3x USB • 2x Thermocouple • 100Mbps Ethernet • 1Gbps Ethernet • HDMI • 3x RTD • 4x Analog input • RTD Set
Back Connectors	<ul style="list-style-type: none"> • 2x RS485 • 1x CAN • 2x Dry Contact • Power Supply • 4x SO • 2X Open collectors • RGB • SD Card Slot • WM Bus Antenna • GPS Antenna • M2M Antenna
Top Connector	<ul style="list-style-type: none"> • USB 4

Configuration table

1- Power

D50 5.5-24 VDC; max. 3.8A

2- Mounting

DR DR Din-Rail

3- Connectivity

- 4 Wireless mesh
- 5 Wireless Mesh/LoRa
- 6 LoRa
- 7 Z-wave
- 8 Sigfox
- 9 ZigBee

4- Cable

DRNC Din-Rail No Cable

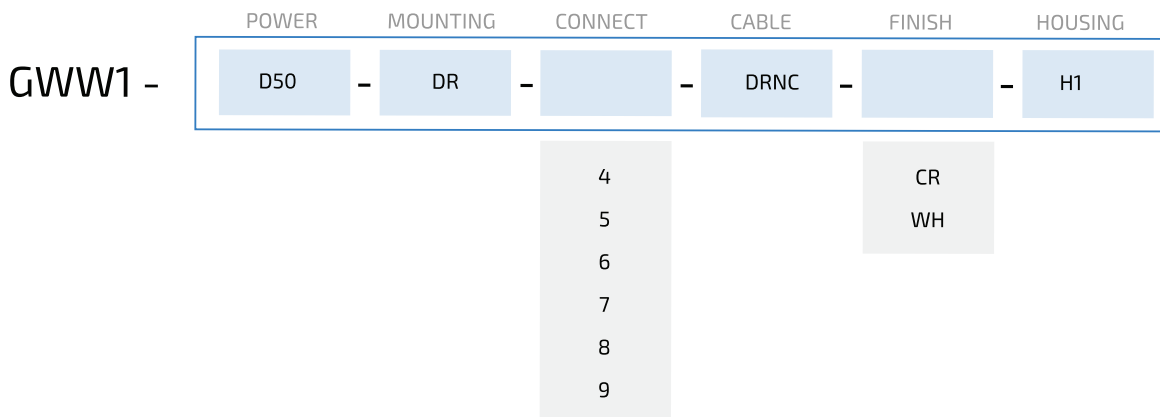
5- Finish

CR Cream
WH White

6- Housing

H1 Indoor housing

Configuration options

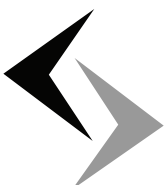


Safety Standards

- ISO14001;
- IATF 16949;
- IPC Membership GloE is compliant to Directive 2014/53/EU and Directive 2011/65/EU to be used in a civil/residential (class B) and industrial (class A) environments.

Below the list of relevant EU legislation/regulation (directives, norms) to which GloE complies:

- EN55032
- Electromagnetic compatibility of multimedia equipment - Emission Requirements EN 61000-4-2
- Electrostatic Discharge Immunity EN 61000-4-3
- Radiated, radio-frequency, electromagnetic field immunity EN 61000-4-4
- Electrical Fast Transient / Burst Immunity EN 61000-4-5
- Surge immunity EN 61000-4-6
- Immunity to conducted disturbances, induced by radio-frequency fields EN 300 220-1 V2.4.1
- Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive EN 300 220-2 V2.4.1 EN 300 328 V.1.8.1
- Electromagnetic Compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data Transmission equipment operating in the 2.4GHz ISM band and using wide band modulation techniques EN301 489-1 V1.9.2
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements EN301 489-3 V1.4.1
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz EN301 489-17 V2.2.1
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems EN60950-1
- Safety of information technology equipment



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SYCRA reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately. For more information and details, visit www.sycratech.com or contact info@sycratech.com.

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