

X1-GW-01

X1-Series Gateway for Module Configuration and Modbus TCP/IP or RTU RS485 Data Acquisition

Gateway model X1-GW-01 is dedicated to X1 Series. It allows X1-TB board and X1 module Identification, as well as X1 smart module Configuration, Monitor & Diagnostics, and more sophisticated functions (Mission Time supervision, Proof Time testing for functional safety on specific modules, etc.). Up to 16(8) X1 modules can be accessed through a single X1-GW-01 Gateway installed on the same X1-TB. Gateway connectivity is possible point-to-point to a PC/IPC running SWCX1 dedicated software, or through industrial bus, MODBUS TCP/IP through RJ45 port or MODBUS RTU on RS485. A full network of X1 modules can be surveilled and controlled from a single access point, through different Gateways with dedicated addresses and external switches. Access to the Gateway can be limited through multi-user profiles with individual passwords, while an external boot loader allows firmware revision upgrade.

FEATURES

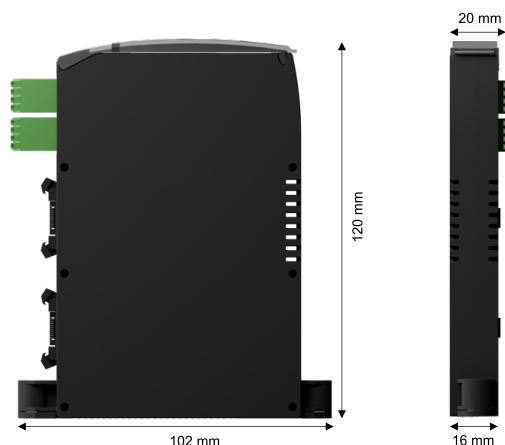
- Up to 16 channels (expandable through different X1-GW-01)
- Configuration, Monitor & Diagnostics functions
- External boot loader for firmware revision upgrade
- Multi-profile access, with passwords and security related functions
- Three port isolation, Module Interface/User Interface/Supply

ORDERING INFORMATION

Ordering codes

X1-GW-01

OVERALL DIMENSIONS



TECHNICAL DATA

General

Power dissipation: 0.65 W @ 24 Vdc, typical.

Power Supply

24 Vdc nom (18 to 28.8 Vdc), reverse polarity protected, provided through X1-TB.

Current consumption: 27 mA @ 24 Vdc, typical.

User interface

The Gateway can be connected through different interfaces:

- 1) point-to-point through USB-C connector;
- 2) industrial bus, MODBUS TCP/IP through RJ45 connector or MODBUS RTU through RS485.

Note that Gateway communication is limited to a single interface (session) at a time.

Module interface

The Gateway must be installed on X1-TB board, providing proprietary serial communication to X1 modules.

Max number of channels: 16.

Isolation

Module Interface/User Interface 500 V; Module Interface/Power Supply 500 V; User Interface/Power Supply 500 V.

Environmental conditions

Operating temperature: temperature limits −40 to +70 °C.

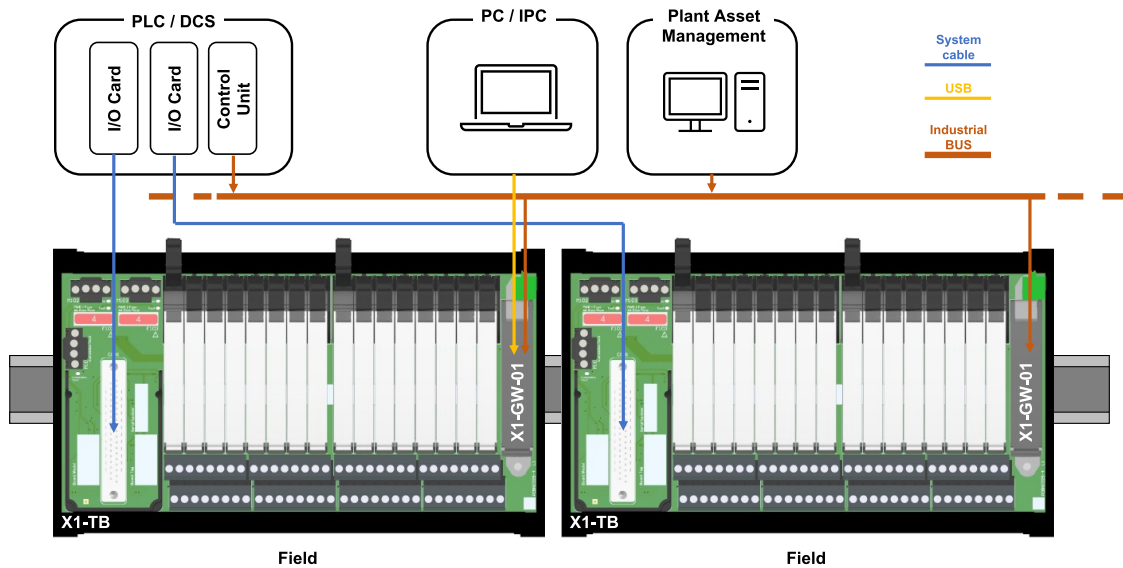
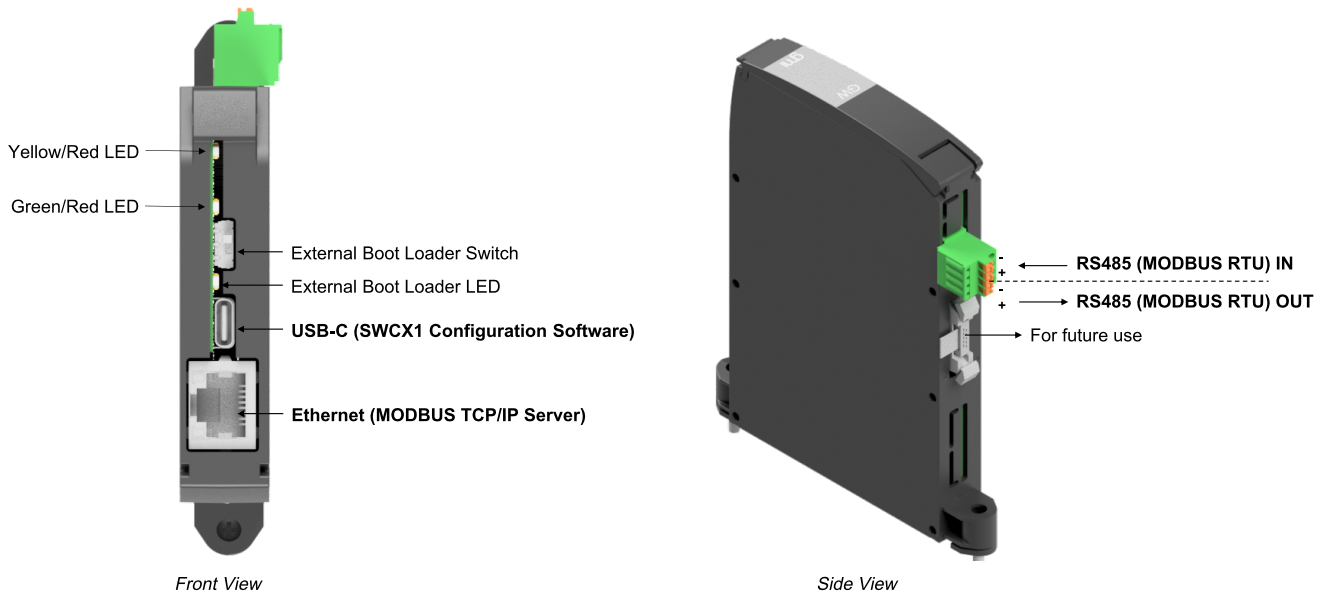
Storage temperature: temperature limits −45 to +80 °C.

Mounting

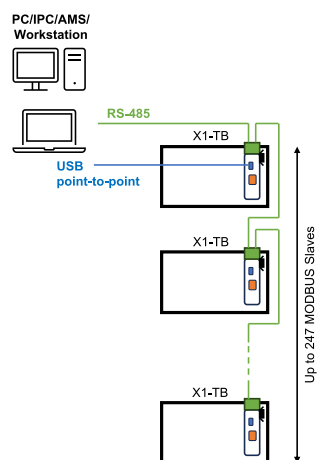
On custom X1-TB through captive screws.

Weight: about 105 g.

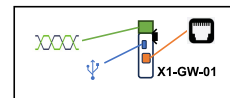
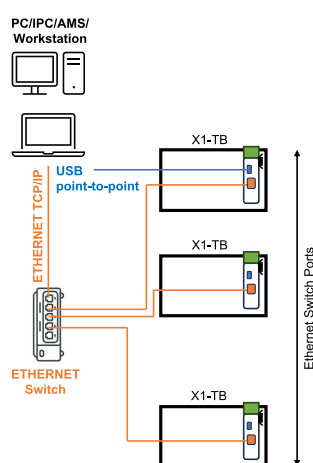
Dimensions: Width 16/20 mm, Depth 102 mm, Height 120 mm.



MODBUS RTU RS-485 NETWORK



MODBUS TCP/IP NETWORK



*Additional installation diagrams may be found in Instruction Manual.

Temp. TMP0056 Rev.1

www.gminternational.com



Functional Safety Management Certification:
GM International is certified to conform to IEC61508:2010 part 1 clauses 5-6 for safety related systems up to and included SIL3. In addition, GM International products have been granted I.S. certificates from the most credited Notified Bodies in the world.

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