

IXXAT SG-gateway with M-Bus Master interface

REMOTE TERMINAL UNIT FOR SMART GRID APPLICATIONS

The SG-gateway is a remote terminal unit for the energy market with an M-Bus Master interface for reading up to 64 remote energy meters. In addition, it includes 2 digital SO inputs and 2 digital outputs.

The SG-gateway supports the communication protocols used in the energy sector, e.g. IEC60870-5-104 and IEC61850. The gateway can support other connected electric equipment in the field, via an Ethernet interface and/or a serial port, using the protocols Modbus TCP and RTU. As an option, the SG-gateway can also include a 3G modem for remote connectivity.

EASY WEB-PLC programming

The application logic can be programmed on the device either using the integrated graphical web editor or by using a predefined configuration loaded to the device. The graphical web editor is a very intuitive and easy to use interface to program software applications and configure the gateway. No engineering tools are required and it can easily be accomplished by service technicians.

[Installation](#)[Manuals](#)

Features and benefits

- M-Bus Master interface for reading up to 64 energy meters
- Easy way to transport I/O data from electrical equipment in the field to SCADA systems
- Connects intelligent electrical devices (IEDs) with IEC protocols to industrial automation systems
- Connects machines to PLC's and Virtual Power Plant / Demand Response companies
- Supports several communication protocols (IEC61850 client/server, IEC60870-5-104 client/server, Modbus TCP client/server, Modbus RTU master/slave)
- Transmission over *3G (*optional) or over Ethernet
- Connects serial based Modbus RTU electrical equipment over a selectable RS232/RS485 interface
- Easy web based configuration using any standard browser
- Robust metal housing for stand-alone operation with DIN rail mounting
- Global free technical support and consulting services

Technical Services

Getting Started Support

We offer our customers support via phone, e-mail and Teamviewer in getting started the quickest way possible. This includes assistance in installation of the gateway, explaining the programming examples, and giving an introduction to configuration.

Configuration Support

Generating the system description and configuration for IEC61850 and IEC60870-5-104 requires extensive know-how of the technology and how it is used in real world applications. Our external consultant and energy network specialist can assist you in the most professional way.

IEC 61850 Technology Seminar

Do you like to learn more about the IEC 61850 technology? For a detailed introduction, we recommend the seminars of Dipl.-Ing. Karlheinz Schwarz. [\[Learn more...\]](#)

Interface features

M-BUS MASTER INTERFACE

- Reads up to 64 energy meters
- Up to 5 Km @ 300 bps AWG15

IEC61850 (OPTIONAL)

- Client/Server functionality
- Goose Publisher/Subscriber functionality

I/O INTERFACE

- 2x SO digital Inputs
- 2x digital Outputs

IEC60870-5-104 (OPTIONAL)

- Client/Server functionality
- Up to 8192 data objects (each data object with value, quality and timestamp); 32 server devices supported in Client configuration

SERIAL INTERFACE

- Selectable RS-232/485
- Supports Modbus RTU Master/Slave
- Connects up to 128 serial Modbus RTU slave devices in master mode and 4096 values
- Serial baud rate 300 bps - 115,2 kbps

3G MODEM (OPTIONAL)

- SMS Send and Receive
- Telecontrol access to the control room communicating IEC60870-5-104 or IEC61850 remote telecontrol protocols

ETHERNET INTERFACE

- 10/100 Mbit/s
- Supports Modbus TCP Client/Server
- Connects up to 128 server devices in master mode and 4096 values
- IT features: OpenVPN client, DHCP server, integrated Firewall, SNTP, COM server, NAT routing

Technical specifications

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ORDER CODE	ASG1107 (IEC60870-5-104 CLIENT/SERVER AND IEC61850 CLIENT/SERVER + 3G)
Additional Order Codes	ASG1106 (IEC60870-5-104 client/server and IEC61850 client/server) ASG1105 (IEC61850 client/server + 3G) ASG1104 (IEC61850 client/server) ASG1103 (IEC60870-5-104 client/server + 3G) ASG1102 (IEC60870-5-104 client/server) ASG1101 (3G modem NO IEC support) ASG1100 (NO 3G modem NO IEC support)
Included components	microSD memory card 4 Gbyte Power connector (Weidmüller BL 3.50/3) I/O connector (Weidmüller BL 3.50/10) Serial connector (Weidmüller BL 3.50/8) CAN connector (Weidmüller BL 3.50/04) 3G Antenna (Included only when ordering a 3G version) <i>(Power supply NOT included)</i>
Required software	CHIPTool (for IP configuration - Freeware) Downloadable under Support Files and Documents
Technical services	SA2133 (Getting Started Support: 4h package including assistance in installation of the Gateway, explaining programming examples, introduction to configuration (no full system configuration). Support is offered via phone, e-mail and Teamviewer.) On request (Configuration Support, hourly or per-day base)

Related products



IXXAT Energy SG-gateways

- [SG-gateway Overview](#)
- [SG-gateway with I/O](#)
- [SG-gateway with EtherNet/IP](#)
- [SG-gateway with M-Bus Master](#)
- [SG-gateway with PROFINET](#)
- [SG-gateway with PROFIBUS](#)

More information

- Learn more about the IXXAT SG-gateways
- [What you can do](#)
 - [SG-gateway Configuration](#)

About Smart Grid

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