



Modbus TCP/IP to GE Ethernet Global Data Gateway

5201 MNET-EGD

The ProLinx Modbus EtherNet/IP to GE Ethernet Global Data Gateway creates a powerful connection between Modbus TCP/IP and GE Ethernet Global Data networks. The module provides one Ethernet port.

The Modbus TCP/IP protocol driver can interface many different protocols into Schneider Electric Quantum processors as well other solutions supporting the protocol. The MNET driver supports Client and Server connections, and when coupled with the Web option provides a web/ftp interface as well.

The EGD modules offer one-to-one or one-to-many interconnect scenarios. Data is exchanged between devices and/or networks using a shared common database and an efficient but powerful wireless protocol. This common database provides the "backbone" communications for various field devices using different networks.

Modbus TCP/IP

The Modbus TCP/IP driver interfaces with a common internal database in the module. This permits the sharing of data between the Modbus TCP/IP and other networks and devices.

Modbus TCP/IP Server

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|---------|--|
| General | Server supports up to 5 independent connections each to Modbus TCP/IP clients on Service Port 502 using the standard MBAP protocol, and Service Port 2000. |
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| Configurable Parameters | Module IP Address Modbus address offsetting |
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Modbus TCP/IP Client

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| General | Actively reads and writes data with Modbus TCP/IP compatible devices. One client connection (up to 100 servers/devices with 100 commands) |
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| Configurable parameters | Number of active commands, Min Command Delay, Response Timeout, Retry Count, Command Error Pointer |
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|--------------|--|
| Command List | Up to 100 fully configurable commands on the Client port |
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The MNET-EGD modules are the ideal solution for the many applications where Modbus TCP/IP connectivity can be used to integrate GE Ethernet Global Data devices into a system. The Modbus TCP/IP gateway is a powerful module designed with both Client and Server support, enabling easy connection to other Modbus TCP/IP devices (Modicon processors and many others). In combination with the GE Ethernet Global Data device support, the module provides a very powerful interface to the many EtherNet/IP devices which are in use in the industrial marketplace today. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

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EGD

GE Ethernet Global Data (EGD) offers versatility where a mix of control devices requires cooperation with each other. This involves sharing of information across the applications regardless of device or network type, often at high speed, and with high reliability. Bandwidth utilization is optimized by using efficient communication methods. High reliability means fewer communication failures and having the ability to detect failures upon occurrence. Particular emphasis is delivered for applications requiring periodic or frequent updates and time synchronization of devices. The protocol supports Unicast, Broadcast and Multicast group messaging. Efficiency is based on the fact each device on the network can produce these types of messages and each device determines which of these messages to consume.

General Specifications

The ProLinx Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

Hardware Specifications

| Specification | Description |
|---------------------------------------|---|
| Power Supply | 24 VDC nominal 18 to 36 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade |
| Current Load | 500 mA max@ 24 VDC |
| Operating Temperature | -20 to 50°C (-4 to 122°F) |
| Storage Temperature | -40 to 85°C (-40 to 185°F) |
| Relative Humidity | 5 to 95% (non-condensing) |
| Dimensions | Standard: 5.20H x 2.07W x 4.52D in. (13.2cmH x 5.25cmW x 11.48cmD) Extended: 5.20H x 2.73W x 4.52D in. (13.2cmH x 6.934cmW x 11.48cmD) |
| LED Indicators | Power and Module Status Application Status Serial Port Activity LED Serial Activity and Error LED Status |
| Configuration Serial Port | DB-9M RS-232 only No hardware handshaking |
| Ethernet Port (Ethernet modules only) | RJ45 Connector Link and Activity LED indicators |
| Application Serial Ports | RS-232/422/485 RS-232 handshaking configurable RS-422/485 screw termination included |

| Specification | Description |
|------------------------|--|
| Serial Port Isolation | 2500V RMS port signal isolation per UL 1577 3000V DC min. port to ground and port to logic power isolation |
| Shipped with Each Unit | Mini-DIN to DB-9M serial cables 4 ft RS-232 configuration cable 2.5mm screwdriver CD (docs and Configuration utility) RS-422/485 DB-9 to Screw Terminal Adaptor (1 or 4, depending on ports) |

ProSoft Configuration Builder

ProSoft Configuration Builder (PCB) provides a quick and easy way to manage module configuration files customized to meet your application needs. PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations to new projects.

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following:

5201-MNET-EGD Modbus TCP/IP to GE Ethernet Global Data Gateway

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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