



Modbus TCP/IP Multi Client to EtherNet/IP Gateway

5201-MNETC-DFNT

The MNETC-DFNT modules are the ideal solution for the many applications where Modbus TCP/IP Client connectivity can be used to integrate EtherNet/IP devices into a system. The Modbus TCP/IP gateway is a powerful module designed with up to five Clients, enabling easy connection to other Modbus TCP/IP devices (Modicon processors and many others). In combination with the EtherNet/IP 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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Modbus TCP/IP Multi Client to EtherNet/IP Gateway

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

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

The EtherNet/IP protocol driver supports the Explicit Messaging implementation of the protocol. User-configurable as both a Client and a Server, the EtherNet/IP port is a very powerful data transfer tool.

Modbus TCP/IP Multi Client

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

Modbus TCP/IP Multi Client

General	Actively reads and writes data with Modbus TCP/IP compatible devices. The MNET driver supports <ul style="list-style-type: none"> 5 MNET Modbus TCP/IP servers (port 2000) 5 MBAP Modbus TCP/IP servers (port 502) 10 Modbus TCP/IP clients (MNET or MBAP), each supporting up to 16 Modbus TCP/IP commands. <p>The Ethernet driver interfaces with a common internal database in the module. This permits the sharing of data across many different protocols and networks.</p>
Configurable parameters	Number of active commands, Min Command Delay, Response Timeout, Retry Count, Command Error Pointer
Command List	Up to 16 fully configurable commands on the Client port

EtherNet/IP

The EtherNet/IP protocol is one of the primary connectivity tools to the different Rockwell Automation platforms. The Explicit Messaging aspect of the protocol (only) has been implemented in the ProLinx units to provide the data transfer link between the ProLinx units and the Rockwell Automation hardware.

General Protocol Information

Messaging	PCCC on CIP Explicit Messaging supported
Miscellaneous	125 word read and write data lengths Floating point data supported

EtherNet/IP Server Specifications

In Server mode, the module accepts commands from one or more clients to read/write data stored in the module's internal registers.

EtherNet/IP Server Specifications

Connections	Five independent TCP server sockets permit remote clients to interact with all data contained in the module.
Data File	Data Table File Start – Fixed at N10 Data Table File Size – 100 or 1000 words
CIP Services Supported	0x4C – CIP Data Table Read 0x4D – CIP Data Table Write

EtherNet/IP Client Specifications

In Client mode, the module controls the read/write data transfer between the gateway and other EtherNet/IP devices. Data transfer can be initiated and executed without any ladder programming being required in the Rockwell Automation hardware.

EtherNet/IP Client Specifications

General	One client
Command List	Support for 100 commands, each configurable for command, IP address, register to/from addressing and word/bit count.
Polling of command list	User configurable polling of commands, including disabled, continuous and on change of data (write only).

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 32 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade
Current Load	500 mA max@ 32 VDC max
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

Specification	Description
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
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-MNETC-DFNT Modbus TCP/IP Multi Client to EtherNet/IP 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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