Modbus TCP/IP to DNP 3.0 over Ethernet Gateway
5201-MNET-DNPSNET

The MNET-DNPSNET modules are the ideal solution for joining Modbus TCP/IP and DNP over Ethernet networks. This Ethernet to Ethernet gateway is a powerful module designed with both Client and Server support for each protocol, enabling easy connections between the dissimilar network types. The module utilizes a shared database so that the two protocols can quickly and easily transfer data between themselves. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

How to Contact Us: Sales and Support
All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

Asia Pacific
+603.7724.2080, asiapc@prosoft-technology.com
Languages spoken include: Chinese, Japanese, English

Europe – Middle East – Africa
+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com
Languages spoken include: French, English

North America
+1.661.716.5100, support@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America (Sales only)
+1.281.298.9109, latinam@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil
+55-11.5084.5178, eduardo@prosoft-technology.com
Languages spoken include: Portuguese, English

Modbus TCP/IP to DNP 3.0 over Ethernet Gateway

5201-MNET-DNPSNET
The ProLinx Modbus TCP/IP to DNP over Ethernet Gateway creates a powerful connection between devices on Modbus TCP/IP and DNP over Ethernet networks. This stand-alone DIN-rail mounted protocol gateway 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 ProLinx module supports the DNP 3.0 protocol as a server using the TCP and UDP protocols using service port 20000. This port is fully configurable.

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	
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.
Configurable Parameters	Module IP Address Modbus address offsetting
Modbus TCP/IP Client	
General	Actively reads and writes data with Modbus TCP/IP compatible devices. One client connection (up to 100 servers/devices with 100 commands)
Configurable parameters	Number of active commands, Min Command Delay, Response Timeout, Retry Count, Command Error Pointer
Command List	Up to 100 fully configurable commands on the Client port

ProLinx

DNP 3.0 over Ethernet

The DNP 3.0 over Ethernet driver provides support as a server using the TCP and UDP protocols using service port 20000.

General Parameters

Internal Database	Binary Inputs: 0 to 500 word count
	Analog Inputs: 0 to 500 points
	Counters: 0 to 250 points
	Binary Outputs: 0 to 125 word count
	Analog Outputs: 0 to 500 points
	Binary Input Events: 0 to 100 event buffer
	Analog Input Events: 0 to 100 event buffer
Communication parameters	Baud Rate: 110 to 115K baud
	Stop Bits: 1
	Data Size: 8 bits
	Parity: None
	RTS Timing delays: 0 to 65535 ms
DNP Mode	DNP 3.0 Server – Level 2

DNP Server

Node address	0 to 65534 (software selectable)

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 (13.2H x 5.25W x 11.48D cm)
	Extended: 5.20H x 2.73W x 4.52D in (13.2H x 6.934W x 11.48D cm)
LED Indicators	Power and Module Status
	Application Status
Configuration Serial Port	DB-9M RS-232 only
	No hardware handshaking

Specification	Description
Ethernet Port (Ethernet modules only)	RJ45 Connector
	Link and Activity LED indicators
Shipped with Each Unit	Mini-DIN to DB-9M serial cable
	4 ft RS-232 configuration cable
	2.5 mm screwdriver

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 website at http://www.prosoft-technology.com for a complete list of products.

Ordering Information

To order this product, please use the following:

5201-MNET-DNPSNET   Modbus TCP/IP to DNP 3.0 over Ethernet 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

Distributors:
Place your order by email or fax to:

North American / Latin American / Asia Pacific
info@prosoft-technology.com
fax to +1 661.716.5101

Europe
europe@prosoft-technology.com
fax to +33 (0) 5.61.78.40.52