





DNP 3.0 over Ethernet to Rockwell Automation Remote I/O Gateway 5210-DNPSNET-RIO

The DNPSNET-RIO modules are the ideal solution for the many applications where DNP over Ethernet connectivity can be used to integrate as a Remote I/O Adapter in a system. The DNP over Ethernet gateway is a powerful module designed with Server support, enabling easy connection to other DNP devices. In combination with the Remote I/O device support, the module provides a very powerful interface to the many Remote I/O 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.

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

Brasi

.

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

DISCONTINUED

DNP 3.0 over Ethernet to Rockwell Automation Remote I/O Gateway

5210-DNPSNET-RIO

The ProLinx DNP over Ethernet to Remote I/O Gateway creates a powerful connection between devices on a DNP over Ethernet network and Remote I/O devices. This stand-alone DIN-rail mounted protocol gateway provides one Ethernet port and one Remote I/O port.

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.

The RIO interface is an adapter (slave) which can be connected to a scanner (master) that controls the data transfer. The module also supports limited high speed data transfer via the Input and Output images.

DNP 3.0 TCP/IP Server

The DNPSNET protocol driver exists as a single service port (DNPSNET port 20000) implementation that supports a single TCP port connection and multiple UDP ports on a TCP/IP Ethernet network. The DNPSNET port operates as a server, supporting the DNP 3.0 protocol in a Level 2 implementation using the DNP User Group recommended extension for use on LAN/WAN.

General Parameters	
Internal Database	Binary Inputs: 8000 points (500 words)
	Analog Inputs: 500 points
	Counters: 250 (500 words)
	Binary Outputs: 2000 points (125 words)
	Analog Outputs: 500 points
DNP Mode	DNP 3.0 Slave – Level 2
DNP Server	
Service Port	20000
Protocols	TCP (1 connection) and UDP
Node address	0 to 65534 (software selectable)

The DNPSNET module accepts DNP commands to control and monitor the data stored in the DNP databases. These data are passed between the module and the other protocol on the ProLinx module.



Rockwell Automation Remote I/O

The RIO interface is an adapter (slave) and is connected to a scanner (master) that controls the data transfer. For example, the master/slave relationship can be accomplished using the RIO module (adapter/slave unit) with a Rockwell Automation PLC5 (scanner/master unit). Ladder logic must be programmed into a PLC to perform BTR/BTW commands to receive and transmit data between the module and the PLC. The module also supports limited high speed data transfer via the input and output images.

Software Configurable Parameters		
Rack Number	0 to 63	
Addressing		
Rack Size	1/4-rack, 1/2-rack, 3/4-rack and full rack	
Starting Group	0,2,4,6	
Last Rack	Yes or No	
Baud Rate	57.6K, 115K, 230K	
Functional Specifications		
Supports block-transfers of data with scanner		
Supports I/O data movement. Amount determined by rack		
size configuration		
BTW Command – up to 64 words		
BTR Command – up to 63 words		
Physical Connection		
Remote I/O connector	Standard 3-screw termination	
	connector	
·		

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	DB-9M RS-232 only
Port	No hardware handshaking

Specification	Description
Ethernet Port (Ethernet	RJ45 Connector
modules only)	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.

Copyright © ProSoft Technology, Inc. 2000 - 2013. All Rights Reserved.

December 18, 201