





Rockwell Automation Remote I/O to DNP 3.0 Master Gateway 5601-RIO-DNPM

The RIO-DNPM modules are the ideal solution for the many applications where DNP 3.0 Master connectivity can be used to integrate Remote I/O serial devices into a system. The DNP Master gateway is a powerful module designed with Server support, enabling easy connection to Rockwell Automation PLCs (CLX, SLC, PLC, CPLX, and similar 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.

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Rockwell Automation Remote I/O to DNP 3.0 Master Gateway

5601-RIO-DNPM

The ProLinx Rockwell Automation Remote I/O Adapter to DNP 3.0 Master Gateway creates a powerful connection between devices on a DNP 3.0 network and a Remote I/O network. This stand-alone DIN-rail mounted protocol gateway provides one serial port and one RIO port.

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.

The DNP 3.0 Master protocol driver supports Master implementations of the protocol on one port. This port is fully configurable.

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 Addressing	0 to 63	
Rack Size	¼-rack, ½-rack, ¾-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	

DNP 3.0 Master

The DNP 3.0 Master driver provides extensive support for Master implementations of the protocol. The serial port on the gateway is user-configurable to support the DNP 3.0 protocol (Master, Baud Rate, etc).

Binary Inputs: 0 to 500 word count
Analog Inputs: 0 to 500 points
Counters: 0 to 250 points
Binary Outputs: 0 to 500 word
count
Analog Outputs: 0 to 500 points
DNP 3.0 Master – Level 2
DNPM Driver Manual contains full Object Definition documentation

DNP Master	
Node address	0 to 65534 – software selectable
Slave count	Up to 40 slave devices
Command count	Up to 300 user defined commands to interface with remote slave devices

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

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.

Ordering Information

To order this product, please use the following:

5601-RIO-DNPM Rockwell Automation Remote I/O to DNP 3.0 Master 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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