



DNP 3.0 Ethernet Server Communication Module

MVI69-DNPSNET

With the growing usage of the DNP protocol over Ethernet technology in the industrial marketplace, this product has a wide variety of application uses. Industries that use this technology include:

- Power and distribution applications
- Petrochemical
- Water and Gas Applications
- SCADA and DCS applications

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:

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DNP 3.0 Ethernet Server Communication Module

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The MVI69 DNP 3.0 Server over Ethernet Communications Module supports the implementation of the DNP 3.0 (Distributed Network Protocol) over Ethernet, allowing CompactLogix processors to easily communicate with host systems supporting the protocol. The module supports DNP Subset Level 2 features and some Level 3 features.

Features and Benefits

The MVI69-DNPSNET (Distributed Network Protocol Module over Ethernet) allows CompactLogix processors to easily communicate with other DNP protocol-compatible devices.

The module supports DNP subset level 2 features and some Level 3 features. The MVI69-DNPSNET module acts as an input/output module between the DNP Ethernet network and the CompactLogix backplane. The data transfer from the CompactLogix processor is asynchronous from the actions on the DNP network. Databases are defined in the module to house the data required by the protocol.

General Specifications

- Single Slot - 1769 backplane compatible
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module
- Ladder Logic is used for data transfer between module and processor. Sample ladder file included.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included.
- Supports all CompactLogix processors: L20/L30/L31/L32/L35, L43 and L45 (L43 and L45 supported with RSLogix 5000 v16.03 or later)
- Also supports MicroLogix 1500 LRP

Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Current Load	800 mA max@ 5 VDC Power supply distance rating of 2
Operating Temp.	0 to 60°C (32 to 140°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95% (non-condensing)
LED Indicators	Power and Module Status Application Status CFG Port Activity Ethernet Port Activity Error Status
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
App Port (Ethernet modules)	10/100 Base-T Ethernet compatible interface Electrical Isolation 1500 V rms at 50 Hz to 60 Hz for 60 s, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration Cable

Functional Specifications

The MVI69-DNPSNET module accepts DNP commands to control and monitor the data stored in the DNP databases. This data is passed between the module and the CompactLogix processor over the backplane for use in user applications.

- DNP databases to house data for the slave port supporting the following maximum point counts
 - Binary input: 8000 points (500 words)
 - Binary output: 8000 points (500 words)
 - Counter: 250 (500 words)
 - Analog input: 500 words
 - Analog output: 500 words
 - Float input: 150 points (300 words)
 - Float output: 150 points (300 words)
- User-definable module memory usage up to maximum point counts
- Data movement between module using Input/Output image
- Ethernet port supporting both TCP and UDP over Ethernet
- Supports DNP 3.0 in a level 2 implementation

- Supports sending of input event data from the ladder to the module
- Supports time synchronization from/to processor
- Configurable via text file
- Status and error information
- All data in the DNP slave is contained in user-defined files

Additional Products

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

Compatible products in the inRAX product line also include:

IEC 60870-5-104 Server Communication Module for CompactLogix / MicroLogix (MVI69-104S)

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:

MVI69-DNPSNET DNP 3.0 Ethernet Server
Communication Module

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