



DNP 3.0 Server over Ethernet Communication Module MVI56-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

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+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

DNP 3.0 Server over Ethernet Communication Module

MVI56-DNPSNET

The MVI56 DNP 3.0 Server over Ethernet Communications Module supports the implementation of the DNP 3.0 (Distributed Network Protocol) over Ethernet, allowing ControlLogix 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 MVI56-DNPSNET (Distributed Network Protocol Module over Ethernet) allows Rockwell Automation ControlLogix processors to easily communicate with other DNP protocol-compatible devices.

The module supports DNP subset level 2 features and some Level 3 features. The MVI56-DNPSNET module acts as an input/output module between the DNP Ethernet network and the Rockwell Automation backplane. The data transfer from the ControlLogix 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 – 1756 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
- Local or remote rack

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1756 Chassis Compatible Local or Remote Rack
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	–40 to 85°C (–40 to 185°F)

Specification	Description
Shock:	30g Operational 50g non-operational Vibration: 5 g from 10 to 150 Hz
Relative Humidity	5 to 95% (non-condensing)
LED Indicators:	Module Status Backplane Transfer Status Application Status Serial Activity
Application port (Ethernet)	
Ethernet Port (Ethernet modules)	10/100M RJ45 Connector Link and activity LED indicators
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking

Functional Specifications

The MVI56-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 ControlLogix processor over the backplane for use in user applications.

- DNP databases to house data for the slave port supporting the following maximum input counts
 - Binary input: 8000 points (500 words)
 - Binary output: 8000 points (500 words)
 - Counter: 250 (500 words)
 - Analog input: 500
 - Analog output: 500
- Module memory usage that is definable up to maximum point counts
- Data movement between module using block-transfer
- 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.

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Ordering Information

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

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January 31, 2007