



Modbus TCP/IP Communication Module MVI71-MNET

With the growing trend of Ethernet technology in the industrial marketplace, this product has a wide variety of application uses.

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Modbus TCP/IP Communication Module

MVI71-MNET

The MVI71 Modbus TCP/IP Communication Module is designed to allow PLC processors to interface easily with other Modbus TCP/IP protocol-compatible devices.

Compatible devices include not only Modicon processors (which support the Modbus TCP/IP protocol) but also a wide assortment of other clients and server devices.

Features and Benefits

The MVI71-MNET module is a single slot solution that provides a powerful connection between Rockwell Automation's PLC processor and Modbus TCP/IP network applications.

The TCP/IP Modbus network applications include those networks hosted by Modicon Quantum processors, networks controlled by operator interface software packages, and the growing number of manufactured devices that support this protocol. The module acts as an input/output module between the Modbus TCP/IP network and the Rockwell Automation backplane. The data transfer from the processor is asynchronous from the actions on the Modbus TCP/IP network. A 5000-word register space in the module exchanges data between the processor and the Modbus TCP/IP network.

- Support for the storage and transfer of up to 5000 registers to/from the PLC processor using the block transfer or side-connect interface
- User-definable module memory usage
- 10/100 MB Ethernet compatible interface
- Configurable parameters for the client including a minimum response delay of 0 to 65535 mSec and floating point support

General Specifications

- Single Slot – 1771 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.

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1771 chassis compatible BTR/BTW data transfer 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)
Shock	30g operational 50g non-operational
Vibration	5 g from 10150 Hz
Relative humidity	5 to 95% (non-condensing)
LED Indicators	Module status Backplane transfer status Application status Serial activity and error LED status
Configuration Serial port (CFG)	DB-9M PC compatible RS-232 Hardware handshaking
Ethernet Port (Ethernet modules)	RJ45 Connector Link and activity LED indicators

General Protocol specifications

Type	Specifications
Floating Point Data	Floating point data movement supported, including configurable support for Enron implementation
Modbus Server Protocol Specifications	The server driver supports connections to Modbus TCP/IP clients supporting Service Port 502 using the standard MBAP protocol, and clients supporting Modbus on Service Port 2000.

Modbus Server Protocol Specifications

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General

- Supports five independent server connections for Service Port 502
- Supports five independent server connections for Service Port 2000

Status Data

Error codes, counters, and port status available

Modbus Function Codes

Code	Description
1:	Read Output Status
2:	Read Input Status
3:	Read Multiple Data Registers
4:	Read Input Registers
5:	Write Single Bit
6:	Write Single Data Register
15:	Write Multiple Bits
16:	Write Multiple Data Register

Modbus TCP/IP Client

The client driver supports the active reading and writing of data with Modbus TCP/IP compatible devices.

One client connection available (connect up to 100 servers/devices with 100 commands)

Copy of 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:

Modbus Master/Slave Communication Module for PLC (MVI71-MCM)

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:

MVI71-MNET Modbus TCP/IP
Communication Module

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