Modbus TCP/IP Client Communication Module for Remote Chassis
MVI56-MNETCR

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 Client Communication Module for Remote Chassis

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The MVI56 Modbus TCP/IP Client Communication Module with Reduced Data Block is designed to allow ControlLogix 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 server devices.

This module uses a small I/O data area for data transfer between the module and the ControlLogix processor, making it ideal for ControlNet or Ethernet applications with the module in a remote rack.

Features and Benefits

This module was created to improve the performance when servers are not needed on a Modbus TCP/IP network. The module supports up to 30 clients with up to 16 commands for each client, making it easy to enable/disable the commands from the ladder logic. The client command control word contains one bit for each command.

Some of the other features include:

- Support for the storage and transfer of up to 5000 registers to/from the ControlLogix processor's controller tags
- Module memory usage that is completely user definable
- 10/100 MB Ethernet compatible interface
- Configurable parameters for the client include:
  - o Minimum Command Delay
  - o User Defined Commands (Read/Write)

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

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- This module uses a small I/O data area for 40 words data block transfer between the module and the ControlLogix processor, for applications with the module in a 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 to85°C (–40 to 185°F)
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-MNETCR transmits smaller data packets than the MVI56-MNETC, which makes it ideal for remote rack or where bandwidth is limited.

- 40 word data blocks (scheduled)
- Special functions (command control, event commands, status, etc.) are supported by unscheduled instructions
- Operation via simple ladder logic
- Complete set up and monitoring of module through software and user-constructed configuration file (MNET.CFG)
- Backplane interface via I/O access

General Protocol specifications

Type	Specifications
Floating Point Data	Floating point data movement supported, including configurable support for Enron implementation

Modbus TCP/IP Client

- The client driver supports the active reading and writing of data with Modbus TCP/IP compatible devices.
- Up to 30 client connections available.

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 TCP/IP Communication Module (MVI56-MNET)

Modbus TCP/IP Client Communication Module (MVI56-MNETC)

Modbus TCP/IP Communication Module with Reduced Data Block (MVI56-MNETR)

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:

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