



## Modbus TCP/IP Client Communication Module

### MVI56-MNETC

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## Modbus TCP/IP Client Communication Module

### MVI56-MNETC

The MVI56 Modbus TCP/IP Client Communication Module 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.

### 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. This module does not support the conditional write 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:
  - Minimum Command Delay
  - 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
- 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)
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
<b>Application port (Ethernet)</b>	
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
<b>Debug/Configuration port (CFG)</b>	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking

## Functional Specifications

- 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.

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