

DATASHEET

Modbus TCP/IP Client Communication Module MVI69-MNETC

The MVI69-MNETC Modbus TCP/IP Client Communication Module allows Rockwell Automation[®] CompactLogix / MicroLogix[®] processors to interface easily with Modbus TCP/IP server devices.

Compatible devices include Modicon PACs, as well as a wide variety of instruments and devices. The module acts as an input/output module between the Modbus network and the Rockwell Automation backplane.

The data transfer from the processor is asynchronous from the actions on the Modbus Client-controlled network. A 5000-word register space in the module exchanges data between the processor and the Modbus network.



Features

- ◆ 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 memory and processor controller tags. A sample ladder file with AOI is included
- ◆ Configuration data obtained from configuration text file downloaded to module. A sample configuration file is included.
- ◆ Supports CompactLogix and MicroLogix 1500 LRP Controllers except 1769-QBFC1B, 1769-L16x, and 1769-L18x

Functional Specifications

- Support for the storage and transfer of up to 5000 registers to/from the processor's controller tags
- User-definable module memory usage
- 10/100 Base-T Ethernet compatible interface

Client Specifications

The MVI69-MNETC will operate on a local or remote rack. This module was created to improve performance when controlling multiple servers on a Modbus TCP/IP network.

- Offers 30 Client connections with up to 16 commands per Client to talk to multiple servers
- Easily enable or disable the commands from the ladder logic
- A Client configured as a virtual Modbus master device on the MVI69-MNETC module will actively issue Modbus TCP/IP commands to other nodes on the Modbus TCP/IP network
- Actively reads data from and writes data to Modbus TCP/IP devices, using MBAP or Encapsulated Modbus message formats
- Transmits Modbus Function Codes 1, 2, 3, 4, 5, 6, 7, 15, and 16
- .CompactLogix / MicroLogix processor can be programmed to use special functions to control the activity on the Client by actively selecting commands to execute from the command list (Command Control) or issuing commands directly from the ladder logic (Event Commands)
- Configurable parameters for the Client include:
 - Minimum Command Delay
 - User-defined commands (read/write)



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Hardware Specifications

Specification	Description
Dimensions	Standard 1769 single-slot module
Current Load	800 mA max @ 5 VDC Power supply distance rating of 2 (L43 and L45 installations on first 2 slots of 1769 bus)
Operating Temp.	0°C to 60°C (32°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% (with no condensation)
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 Vrms 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

Agency Approvals and Certifications

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