

DATASHEET

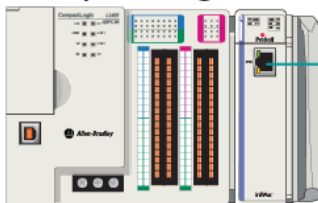
Modbus TCP/IP Lite Communication Module MVI69L-MBTCP

The MVI69L-MBTCP Modbus TCP/IP module is ideal for smaller applications that utilize the CompactLogix L2 controllers. The module has an Add-on Profile and an Add-on Instruction to reduce commissioning time.

The MVI69L-MBTCP has a single Ethernet port for diagnostic and application data. It supports both Client and Server connectivity to interface with a variety of devices using the Modbus TCP/IP Protocol.



CompactLogix™ L2



Modbus TCP/IP

Relay



Features

- ◆ Supports CompactLogix processors with 1769 I/O bus capability version 16 and greater (MicroLogix 1500 not supported)
- ◆ Add-on Instruction creates UDTs, providing logical definitions for I/O, status, and control data
- ◆ Add-on Profile support, improving integration in the CompactLogix System
- ◆ Diagnostic data available in processor controller tags, enabling decisions to be made based upon node health
- ◆ Configuration backed up in CompactLogix project (ACD file)
- ◆ Module acts as a co-processor reducing impact to PLC scan time
- ◆ Supports up to 240 words of I/O data
- ◆ Supports up to 10 Client and 2 Server connections simultaneously
- ◆ Supports Enron and Daniel style Floating point data implementation

General Specifications

| | | |
|---------------------------------|---|--|
| Configuration | ProSoft Configuration Builder | |
| I/O Size | 240/240 - 16 bit integers | |
| Floating Point Data | Floating point data movement supported including configurable support for Enron, Daniel®, and other implementations | |
| Modbus Function Codes Supported | 1: Read Coil Status 2: Read Input Status 3: Read Holding Registers 4: Read Input Registers 5: Force (Write) Single Coil 6: Preset (Write) Single Holding Register 8: Diagnostics (Slave Only, Responds to Subfunction 00) | 15: Force(Write) Multiple Coils 16: Preset (Write) Multiple Holding Registers 17: Report Slave ID (Slave Only) 22: Mask Write Holding Register (Slave Only) 23: Read/Write Holding Registers (Slave Only) |

Functional Specifications

Modbus Client

Configured as a Modbus Client, the module actively issues Modbus commands to other nodes on the Modbus network.

| | |
|-------------------------|--|
| Client Connections | 10 |
| Command List | Up to 16 command per Client connection, each fully configurable for function, slave address, register to/from addressing and word/bit count. |
| Command Control | Configured commands can be controlled directly from ladder logic |
| Polling of command list | Configurable polling of command list, including continuous and on change of data, and dynamically user or automatic enabled. |
| Status Data | Error codes available on an individual command basis. In addition, a slave status list is maintained per active Modbus Client |

Modbus Server

Configured as a Modbus Server, the module acts as a node and permits a remote Client to interact with all data contained in the module.

| | |
|--------------------|---|
| Server Connections | 2, (1 MBAP and 1 Encapsulated) |
| Status Data | Error codes, counters and port status available per configured server |



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Hardware Specifications

| Specification | Description |
|-------------------|--|
| Dimensions | Standard 1769 Single-slot module |
| Current Load | 450 mA max @ 5 VDC Power supply distance rating of 4 |
| Operating Temp. | 32° F to 140° F (0° C to 60° C) |
| Storage Temp. | -40° F to 185° F (-40° C to 85° C) |
| Relative Humidity | 5% to 95% (with no condensation) |
| LED Indicators | Battery and Module Status Application Status Ethernet Port Activity CFG Port Activity |
| Eth-1 | 10/100 Ethernet Port Used for Debugging and Application Code |

Agency Approvals and Certifications

| Agency |
|---|
| ATEX; Category 3, Zone 2 |
| CE Mark |
| CSA; CB Safety |
| Environmental |
| KCC |
| RoHS Compliant |
| UL/cUL; Class 1, Div. 2 Groups A, B, C, D |



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

Modbus TCP/IP Lite Communication Module

MVI69L-MBTCP

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