



## EtherNet/IP Client/Server Communication Module

### MVI46-DFNT

*With the growing trend of EtherNet/IP technology in the industrial marketplace, this product has a wide variety of application uses. Industries that use this technology*

- Food Processing
- Petrochemical
- Pulp and Paper
- Automobile Manufacturing

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## EtherNet/IP Client/Server Communication Module

### MVI46-DFNT

The MVI46 EtherNet/IP (DF1 for Ethernet) Client/Server Communication Module is an SLC backplane compatible module that allows SLC processors to interface easily with EtherNet/IP protocol (Explicit Messaging) compatible devices and hosts. Devices commonly supporting the protocol include Rockwell Automation PLCs, and host HMI systems.

### Features and Benefits

The MVI46-DFNT module is a single slot solution that provides a powerful connection between Rockwell Automation's SLC processor and EtherNet/IP (DF1 for Ethernet) network applications.

The module can send read or write commands to remote devices on the EtherNet/IP network. The MVI46-DFNT also has 20 servers that allow the module to receive commands from remote devices. The MVI46-DFNT Pass-Through server allows the user to edit and transfer the SLC ladder logic using an Ethernet connection. Up to 100 commands can be configured by the user.

### General Specifications

- Single Slot – 1746 backplane compatible (Local or extended I/O rack only. Remote rack not supported)
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module using M0/M1 files
- 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
Backplane Current Load	800 ma @ 5V (from backplane)
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95% (non-condensing)
Shock	30g operational, 50g non-operational
Vibration	5 g from 10150 Hz

Specification	Description
LED indicators	Module status, Backplane transfer status, Application status, Serial activity (debug port), Ethernet link and activity, and error LED status
<b>Debug/Configuration port (CFG)</b>	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
Configuration Connector	RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit)
<b>Application Ports</b>	
Ethernet Port (Ethernet Modules)	RJ45 Connector Link and activity LED indicators

## Functional Specifications

- Rockwell Automation 5/02/03/04 processors with DH-485 or DH+ network connections to co-exist with EtherNet/IP network
- SLC 5/05 in-chassis EtherNet/IP bridge to optimize data throughput while communicating with MMI or SCADA and other control platforms without losing valuable process control bandwidth
- Support of up to 4000 SLC registers user data files
- User-definable module memory usage
- 10/100 MB Ethernet compatible interface
- Functions as a server or a client
- Configurable parameters for the client include:
  - A minimum response delay of 0 to 65535 mSec
  - A response timeout of 1 to 65535 mSec
  - A retry count of 0 to 20
- Status data available in ladder logic

Support for SLC processor programming over Ethernet using a TCP/IP service and a serial port on the module connected to channel 0 of the processor. The module's third port emulates Channel 0 of the processor to pass through messages from the port to the processor

## Server Specifications

- Supports EtherNet/IP explicit, connected, and unconnected class messaging
- Twenty independent server connections permit remote clients to interact with all data contained in the module
- Data can be derived from other clients on the network, through the client on the module, or from the SLC processor

## Client Specifications

- Actively issues connected, explicit messages to other nodes on the network
- Supports 100 user-defined commands from a single client

- Allows command control from ladder logic
- Pass-through services
- Permits remote programming of the SLC processor on the Ethernet network via a pass-through
- TCP/IP service and a serial communication port (pass-through port) on the module
- A PC with RSLogix 500, RSLinx, and a TCP/IP service on the network can remotely program the SLC
- The third port on the module can emulate the Channel 0 port on the SLC. This allows a DF1 master device attached to the emulated (Channel 0) port to monitor and control data in the SLC.

## Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

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## Ordering Information

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**MVI46-DFNT**          EtherNet/IP Client/Server  
Communication Module

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