

DATASHEET

EtherNet/IP™ Client/Server Communication Module, non-CE MVI71-DFNT

The MVI71-DFNT module is a single slot solution that provides a powerful connection between Rockwell Automation's PLC 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 MVI71-DFNT also has 20 servers that allows the module to receive commands from remote devices. The MVI71-DFNT Pass-Through server allows the user to edit and transfer the PLC ladder logic using an Ethernet connection. Up to 100 commands can be configured by the user.



Functional Specifications

- PLC processor in-chassis EtherNet/IP bridge to optimize data throughput while communicating with HMI or SCADA and other control platforms without losing valuable process control bandwidth
- Support of up to 4000 PLC registers user data files
- User-definable module memory usage
- 10/100 Base-T Ethernet compatible interface
- Functions as a server or a client
- Configurable parameters for the client include:
 - A minimum response delay of 0 to 65535 milliseconds
 - A response timeout of 1 to 65535 milliseconds
 - A retry count of 0 to 20
- Status data available in ladder logic

Support for PLC 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 PLC 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 PLC processor on the Ethernet network via a pass-through
- TCP/IP service and a serial communication port (pass-through port) on the module
- The third port on the module can emulate the Channel 0 port on the PLC, This allows a DF1 master device attached to the emulated (Channel 0) port to monitor and control data in the PLC

General Specifications

- Single Slot - 1771 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.

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1771 chassis compatible BTR/BTW data transfer Local or remote rack
Backplane current load	800 mA @ 5 V
Operating temperature	32 to 140°F (0°C to 60°C)
Storage temperature	-40°F to 185°F (-40°C to 85°C)
Shock	30g operational 50g non-operational
Vibration	5 g from 10150 Hz
Relative Humidity	5% to 95%, RH with no condensation
LED Indicators	Module status Backplane transfer status Application status Serial activity and error LED status
Configuration Serial Port (CFG)	DB-9M PC compatible RS-232 Hardware handshaking
Ethernet Port (Ethernet modules)	RJ45 Connector Link and activity LED indicators Electrical Isolation 1500 V rms 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

Agency Approvals and Certifications

cULus	7R16 Class I Div 2 Groups A,B,C,D
CB Certified	IEC61010
ATEX	EN60079-0 Category 3, Zone 2 EN60079-15



Additional Products

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

Compatible products in this product line include:

ProLinx EtherNet/IP to DF1 Gateway (5201-DFNT-DFCM)

For a complete list of products, visit our website at:
www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

EtherNet/IP Client/Server Communication Module

MVI71-DFNT

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:
www.prosoft-technology.com
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