



Generic ASCII Ethernet Interface Module

MVI71-GEC

The MVI71 Generic ASCII Ethernet Interface module is designed to allow PLC processors to interface easily with ASCII devices using the TCP/IP protocol and the PLC processor. Compatible devices may be either ASCII instruments with Ethernet built-in or Ethernet connection via a thin server to the existing ASCII device.

Features and Benefits

Five servers and clients are present on the module permitting both the reception and transmission of data between the Rockwell Automation processor and attached devices.

The MVI71-GEC module is a powerful communication interface for PLC platform processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data access between the module and the PLC processor.

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.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration 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	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 10150 Hz
Relative humidity	5 to 95% (non-condensing)

Generic ASCII Ethernet Communication Module MVI71-GEC

The use of the TCP/IP protocol with Ethernet at the device level on the plant floor is becoming widespread in many industry segments. Using the MVI71-GEC the advantage of Ethernet speed is realized while allowing greater distances between networked devices.

- Bar code scanner interfaces
- Weigh scale interfaces
- Legacy ASCII protocol connections
- Terminal port emulation
- Printer driver (alarm/status printer)

How to Contact Us: Sales and Support

All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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Specification	Description
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

Functional Specifications

- Five Servers and Clients to receive and/or transmit data
- 10/100MB Ethernet-compatible interface
- Configurable parameters
 - Service port number
 - Connection timeout
 - Close type
- Simple ladder logic operation
- Setup and monitoring through RS-Logix 5 software and user-constructed configuration file (GEC.CFG)
- PLC backplane interface via I/O access
- Each Server monitors
 - State
 - IP and port number of connected Client
 - Error codes
- Each Client monitors
 - State
 - IP and port number of connected Server
 - Message related parameters
- ASCII character strings up to 2048 characters in length supported
- Full hardware handshaking control, providing radio, modem, and Multi-drop support
- Memory usage is completely user-configurable, supporting the storage and transfer of up to 4000 bytes to/from the control processor
- Module error and status conditions returned to processor for diagnostic purposes
 - Module status
 - Port error status word (bit mapped)
 - Port receive state
 - Port receive character count
 - Port receive block count
 - Port transmit state
 - Port transmit character count
 - Port transmit block count

Additional Products

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

Compatible products in the inRAX product line also include:

Application Development Ethernet Communication Module for PLC (MVI71-ADMNET)

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following:

MVI71-GEC Generic ASCII Ethernet
Communication Module

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