

DATASHEET

Generic ASCII Ethernet Communication Module MVI69E-GEC

The MVI69E-GEC Generic ASCII Ethernet Interface module is designed to allow CompactLogix™ / MicroLogix™ processors to interface easily with ASCII devices using the TCP/IP protocol. Compatible devices may be either ASCII instruments with built-in Ethernet or Ethernet connection via a thin server to the existing ASCII device.

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 MVI69E-GEC module is a powerful communication interface for CompactLogix / MicroLogix processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data access between the module and the CompactLogix / MicroLogix processor.



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
- ◆ Supports CompactLogix and MicroLogix 1500 LRP Controllers except 1769-QBFC1B, 1769-L16x, and 1769-L18x

Functional Specifications

- Five servers and Clients to receive and/or transmit data
- 10/100 Base-T Ethernet-compatible interface
- Configurable parameters
 - Service port number
 - Connection timeout
 - Close type
- Simple ladder logic operation
- Setup and monitoring through ProSoft Configuration Builder (PCB)
- CompactLogix 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
- ASCII character strings up to 4096 characters in length supported
- User-definable module memory usage, 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 (bitmapped)
 - Port receive state
 - Port receive character count
 - Port receive block count
 - Port transmit state
 - Port transmit character count
 - Port transmit block count
- All data related to the module is contained in a single controller tag with defined objects to simplify monitoring and interfacing with the module
- Module communication data is transferred to the MVI69E-GEC via a pre-defined user data type in the processor

Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Current Load	500 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	Configuration Status Application Status Backplane Connectivity Status Module Status
Debug/App Port	10/100 Ethernet Port (Auto-negotiating)

Agency Approvals and Certifications

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MVI69E-GEC

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