

DATASHEET

Generic ASCII Ethernet Communication Module MVI69-GEC

The MVI69-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 MVI69-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. A sample configuration file is included.
- ◆ 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 RS-Logix 5000 (CompactLogix) or RS-Logix 500 (MicroLogix) software and user-constructed configuration file (GEC.CFG)
- 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
 - Message-related parameters
- ASCII character strings up to 2048 characters in length supported
- Full hardware handshaking control, providing radio, modem, and multi-drop support
- 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 configuration, monitoring, and interfacing with the module
- Module configuration and communication configuration data is transferred to the MVI69-GEC via a pre-defined user data type in the processor



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Hardware Specifications

Specification	Description
Dimensions	Standard 1769 single-slot module
Current Load	800 mA max @ 5 VDC Power supply distance rating of 2 (L43 and L45 installations on first 2 slots of 1769 bus)
Operating Temp.	0°C to 60°C (32°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% (with no condensation)
LED Indicators	Power and Module Status Application Status CFG Port Activity Ethernet Port Activity Error Status
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
App Port (Ethernet modules)	10/100 Base-T Ethernet compatible interface Electrical Isolation 1500 Vrms 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
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable

Agency Approvals and Certifications

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MVI69-GEC

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