Generic ASCII Ethernet Interface Module

MVI56-GEC

The MVI56 Generic ASCII Ethernet Interface module is designed to allow ControlLogix processors to interface easily with ASCII devices using the TCP/IP protocol and the ControlLogix 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 MVI56-GEC module is a powerful communication interface for ControlLogix platform processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data access between the module and the ControlLogix processor.

General Specifications

- Single Slot – 1756 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
- Local or remote rack

Hardware Specifications

Specification	Description
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 10 to 150 Hz
Relative Humidity	5 to 95% (non-condensing)

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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 MVI56-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

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Specification	Description
LED Indicators:	Module Status
	Backplane Transfer Status
	Application Status
	Serial Activity
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable)
	RS-232 only
Application ports (PRT1 & PRT2)	
Full hardware handshaking control, providing radio, modem and Multi-drop support	
Software configurable communication parameters	Baud rate: 110 to 115,200 baud, depending on protocol
	RS-232, 485 and 422
	Parity: none, odd or even
	Data bits: 5, 6, 7, or 8
	Stop bits: 1 or 2
	RTS on/off delay: 0 to 65535 ms
App Ports (P1,P2) (Serial modules)	RJ45 (DB-9M with supplied cable)
	RS-232 handshaking configurable
	500V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port
	6-foot RS-232 configuration cable

Functional Specifications

- Five Servers and five Clients to receive and/or transmit data
- 10/100MB Ethernet-compatible interface
- Configurable parameters
  - o Service port number
  - o Connection timeout
  - o Close type
- Simple ladder logic operation
- Setup and monitoring through RS-Logix 5000 software and user-constructed configuration file (GEC.CFG)
- ControlLogix backplane interface via I/O access
- Each Server monitors
  - o State
  - o IP and port number of connected Client
  - o Error codes
- Each Client monitors
  - o State
  - o IP and port number of connected Server
  - o 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
  - o Module status
  - o Port error status word (bit mapped)
  - o Port receive state
  - o Port receive character count
  - o Port receive block count
  - o Port transmit state
  - o Port transmit character count
  - o Port transmit block count
- All data related to the module is contained in a single controller tag with defined objects to ease in the configuration, monitoring, and interfacing with the module
- Module configuration and communication configuration data is transferred to the MVI56-GEC via a pre-defined user data type in the processor

Additional Products

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

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:

MVI56-GEC   Generic ASCII Ethernet Interface Module

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