DATASHEET

Generic ASCII Ethernet Communication Module
MVI56E-GEC

The MVI56E-GEC Generic ASCII Ethernet Interface module is designed to allow ControlLogix® 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 processor and attached devices.

Features

♦ 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.

♦ Local or remote rack

Functional Specifications

- Five Servers and five 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) software
- ControlLogix® 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
- 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

- All data related to the module is contained in a single controller tag with defined objects to simplify the configuration, monitoring, and interfacing with the module
- Communication Data is transferred to the MVI56E-GEC via a pre-defined user data type in the processor

Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 VDC 3 mA @ 24 VDC
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Shock	30 g operational 50 g non-operational Vibration: 5 g from 10 Hz to 150 Hz
Relative Humidity	5% to 95% RH, with no condensation
LED Indicators	Battery Status (ERR) Application Status (APP) Module Status (OK)
4-Character, Scrolling, Alpha-Numeric LED Display	Shows Module, Version, IP, and Backplane Status
Debug/Configuration/Application Ethernet port (E1)	
Ethernet Port	10/100 Base-T, RJ45 Connector, for CAT5 cable Link and Activity LED indicators Auto-crossover cable detection

Agency Approvals & Certifications

Please visit our website: www.prosoft-technology.com