DATASHEET

Generic ASCII Serial Communication Module

MVI69E-GSC



The MVI69E-GSC Generic ASCII Serial Interface Module is a fast and easy way to add two fully configurable ASCII communication ports to the CompactLogix™ / MicroLogix™ platform without consuming the front port of the processor, or using valuable processing time.

The MVI69E-GSC module is a single-slot, backplane-compatible solution for the CompactLogix / MicroLogix platform. This module has two powerful and fully configurable ASCII communication ports, each supporting the sending and receiving of large ASCII character strings.

With the implementation of some supporting ladder logic in the processor, the many different devices supporting ASCII communications can be integrated into the CompactLogix / MicroLogix platform.

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

- ASCII Communication ports 1 & 2 (PRT1, PRT2)
- Both ports are capable of transmitting and/or receiving ASCII character strings. Each port is individually configurable:
  - Termination types
  - Stream mode
  - Termination character(s)
  - Message timeout
  - Intercharacter timeout
  - Packet size limit
  - Baud rate: 110 to 115.2K baud
  - Parity: none, even, odd
  - Stop bits: 1 or 2
  - Data bits: 5 to 8
  - RTS on/off timing: 0 to 65535 milliseconds
  - Minimum response delay: 0 to 65535 milliseconds
- Handshaking (optional)
  - Hardware: RTS/CTS, DTR/DSR
  - Software: XON/XOFF
- ASCII character strings up to 4096 characters in length supported
- Full hardware handshaking control provides radio, modem and multi-drop support
- User-definable module memory usage, supporting the storage and transfer of up to 4000 registers 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 module via a predefined 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	OK - Module Status ETH - Ethernet Communication P1 - Port 1 Serial Communication P2 - Port 2 Serial Communication BP - Backplane Connectivity CFG - Valid Configuration
Debug Port	10/100 Ethernet Port (auto-negotiating)
App Ports (P1,P2)	RS-232, RS-485 or RS-422 (jumper selectable) RJ45 (DB-9F with supplied cable) RS-232 handshaking configurable 500 V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port

Agency Approvals & Certifications

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MVI69E-GSC

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