Generic ASCII Serial Communication Module
MVI69-GSC

The MVI69-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 MVI69-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. A sample configuration file is included.

♦ 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 configuration, monitoring and interfacing with the module
- Module configuration and communication configuration 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	800 mA max @ 5 VDC
	Power supply distance rating of 2 (L43 and L45 installations on first 2 slots of 1769 bus)
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	Battery and Module Status
	Application Status
	Serial Port Activity
	CFG Port Activity
CFG Port (CFG)	RJ45 (DB-9F with supplied cable)
	RS-232 only
	No hardware handshaking
App Ports (P1,P2) (Serial modules)	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
	6-foot RS-232 configuration cable

Agency Approvals and Certifications

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MVI69-GSC

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