Generic ASCII Serial Interface Module

MVI56-GSC

The MVI56 Generic ASCII Serial Interface Module is a fast and easy way to add two fully configurable ASCII communication ports to the ControlLogix platform without consuming the front port of the processor, or using valuable processing time.

Features and Benefits

The MVI56-GSC module is a single slot, backplane compatible solution for the Rockwell Automation ControlLogix 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 ControlLogix platform.

General Specifications

- Single Slot – 1756 backplane compatible
- Local or remote rack
- 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.
- Configuration data obtained through user-defined ladder. Sample ladder file included

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)
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

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The MVI56-GSC module is the ideal solution for the many applications where ASCII character communications must be added to the ControlLogix platform. Applications using the MVI56-GSC module can be found in many industrial sectors generally involving the following applications:

- *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
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

- ASCII Communication ports 1 & 2 (PRT1, PRT2)
  - o 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 and/or Packet size limit
  - o Baud rate: 110 to 115.2K baud
  - o Parity: none, even, odd
  - o Stop bits: 1 or 2
  - o Data bits: 5 to 8
  - o RTS on/off timing: 0 to 65535 ms
  - o Minimum response delay: 0 to 65535 ms

- Handshaking (optional)
  - o Hardware: RTS/CTS, DTR/DSR
  - o Software: XON/XOFF

- Receive ASCII character strings up to 4096 characters in length
- Full hardware handshaking control provides radio, modem and Multi-drop support
- 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 module via a predefined 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-GSC   Generic Serial ASCII Interface Module

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to http://www.prosoft-technology.com

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