Generic ASCII Serial Interface Module
MVI71-GSC

The MVI71-GSC module is the ideal solution for the many applications where ASCII character communications must be added to the PLC platform. The MVI71-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)*

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All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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Generic ASCII Serial Interface Module

MVI71-GSC
The MVI71 Generic ASCII Serial Interface Module is a fast and easy way to add two fully configurable ASCII communication ports to the PLC platform without consuming the front port of the processor.

Features and Benefits
The MVI71-GSC module is a single slot, backplane compatible solution for the Rockwell Automation PLC 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 PLC platform.

General Specifications
- Single Slot – 1771 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.
- Configuration data obtained through user-defined ladder. Sample ladder file included

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1771 chassis compatible BTR/BTW data transfer Local or remote rack
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 10150 Hz
Relative humidity	5 to 95% (non-condensing)
LED Indicators	Module status Backplane transfer status Application status Serial activity and error LED status

Specification	Description
Debug/Configuration port (CFG)	
CFG Port (P1)	RJ45 (DB-9M with supplied cable) RS-232 only
Configuration Connector	RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit)
Application Ports	
Application Serial port (P2, P3) (Serial Modules)	(2) RJ45 RS-232/422/485 Application ports

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

Additional Products

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

Compatible products in the inRAx product line also include:

Application Development Module for PLC (MVI71-ADM)

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:

MVI71-GSC   Generic ASCII Serial 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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