IEC 60870-5-101 Master Communication Module

MVI69-101M

The MVI69-101M module is the ideal solution for many applications where IEC protocol connectivity must be added to a CompactLogix system. The IEC solution is designed to address the expanding interest in the IEC protocol and the use of IEC compatible devices in industrial applications such as those in the water/wastewater, power, and oil & gas industries.

Compatible devices include relays, breakers, sub-station Communication Modules and other serial communication devices.

How to Contact Us: Sales and Support

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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IEC 60870-5-101 Master Communication Module

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The MVI69 IEC 60870-5-101 Master Communication Module allows CompactLogix and MicroLogix I/O compatible processors to interface easily with IEC 60870-5-101 master (controlled unit) devices.

Features and Benefits

The MVI69-101M module interfaces up to 32 serial communication devices with the CompactLogix processor. Two communication ports on the module act as controlling devices (masters) to interface with controlled devices on their own networks. Each port is individually configurable and can be set for balanced or unbalanced mode. Data is exchanged between the serial network and the CompactLogix processor using the internal database contained in the module and direct control by the processors ladder logic.

General Specifications

- 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 and processor. Sample ladder file included.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included.
- Supports CompactLogix and MicroLogix 1500 LRP Controllers except 1769-L23E-QBFC1B, 1769-L16x, and 1769-L18x

Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Current Load	800 mA max@ 5 VDC
	Power supply distance rating of 2
Operating Temp.	0 to 60°C (32 to 140°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
LED Indicators	Battery and Module Status
	Application Status
	Serial Port Activity
	CFG Port Activity

![inRAx logo]

Specification	Description
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
	500V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port
	6-foot RS-232 configuration Cable

Functional Specifications

- Built in accordance to the approved international specification
- Two independent master ports completely user configurable
- Support for balanced and unbalanced mode
- Up to 32 sessions
- Up to five sectors (separate databases) for each session
- Individual database definition for each sector
- 1000 commands to control stations
- Processor can issue control commands directly to the module or a controlled device (10 at each scan)
- Pass-through of event messages from controlled device to processor for logging of time-tagged events
- Operation via simple ladder logic
- Supports clock synchronization from/to the processor
- Receives events from the slave and sends them to the processor
- Supports monitored data
  o Single-point
  o Double-point
  o Step-point
  o Measured-point
  o Bitstring 32-bit
  o Integrated total point
- Class 1 and Class 2 delay parameter in the configuration file
- Complete set up and monitoring of module through RSLogix 5000 software and user constructed configuration file (IEC101M.CFG)
- All data related to the module is contained in user data files to simplify monitoring and interfacing with the module

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:

DNP 3.0 Master/Slave Communication Module for CompactLogix / MicroLogix (MVI69-DNP)

Visit our web site at www.prosoft-technology.com for a complete list of products.

Ordering Information

To order this product, please use the following:

MVI69-101M   IEC 60870-5-101 Master Communication Module

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: www.prosoft-technology.com and select *Where to Buy* from the menu.