





IEC 60870-5-104 Server Communication Module

MVI69-104S

The MVI69-104S module is designed to address the application where a device using the IEC 60870-5-104 protocol must communicate with a CompactLogix processor. As such, the IEC Server module can be used as a gateway in many SCADA installations in industries such as:

- Power and distribution applications
- Petrochemical
- Water and Gas Applications
- Oil and Gas production
- SCADA and DCS applications

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 60870-5-104 Server Communication Module

MVI69-104S

The MVI69 IEC 60870-5-104 Server Communication Module allows CompactLogix I/O compatible processors to interface easily with IEC 60870-5-104 protocol-compatible hosts.

Features and Benefits

The MVI69-104S module acts as an input/output module between the IEC-60870-5-104 Ethernet network and the CompactLogix processor. Data transfer between the module and the processor is asynchronous from the actions on the network. Databases are defined by the user for the module to hold data as required by the protocol.

The MVI69-104S module is a powerful communication interface for CompactLogix processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data access to the CompactLogix processor.

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 all CompactLogix processors: L20/L30/L31/L32/L35, L43 and L45 (L43 and L45 supported with RSLogix 5000 v16.03 or later)
- Also supports MicroLogix 1500 LRP



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	Power and Module Status Application Status CFG Port Activity Ethernet Port Activity Error Status
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
App Port (Ethernet modules)	10/100 Base-T Ethernet compatible interface Electrical Isolation 1500 V rms at 50 Hz to 60 Hz for 60 s, applied as specified in section 5.3.2 of IEC 60950: 1991
	Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration Cable

Functional Specifications

- Protocol implementation conforms to the IEC 60870-5-104 specification and parameters are fullyconfigurable by the user
- The module accepts commands from an attached master unit (client) on the network and generates unsolicited messages. These sets of messages are either spontaneous or cyclic. This data can be derived from the processor. The remote master device uses the fully-configured databases in the module to control outputs and monitor inputs
- Supports clock synchronization (set in ladder) from the module to the processor, or from the processor to the module
- Supports group interrogation
- Processes information in control direction and monitored direction
- Configurable monitored and command data located in the module database
- Supports timestamp events

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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 Server over Ethernet Communication Module for CompactLogix / MicroLogix (MVI69-DNPSNET)

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:

MVI69-104S	IEC 60870-5-104 Server
	Communication 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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