



## IEC 60870-5-101 Slave Communication Module

### MVI69-101S

The MVI69 IEC 60870-5-101 Slave Communication Module allows CompactLogix and MicroLogix I/O compatible processors to interface easily with IEC 60870-5-101 protocol compatible hosts. The module's two powerful and highly configurable ports allow the many SCADA host systems supporting the IEC protocol to be integrated into the CompactLogix platform.

### Features and Benefits

The MVI69-101S module is the fastest and easiest way to add IEC 60870-5-101 protocol interface support to the CompactLogix and MicroLogix platforms. It is a single slot, backplane compatible solution for the CompactLogix and MicroLogix I/O compatible processors. This module has two powerful and highly configurable IEC 60870-5-101 Slave ports, allowing the many SCADA and field devices supporting the IEC protocol to be integrated into the CompactLogix platform.

The MVI69-101S module acts as an input/output module between the IEC 60870-5-101 telecontrol network and the CompactLogix processor. The data transfer from the processor is asynchronous from the actions on the network. A 5000-word register space in the module exchanges data between the processor and the telecontrol network.

### 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

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*The MVI69-101S module is designed to address the application where a host systems using the IEC 60870-5-101 protocol must communicate with a CompactLogix processor. As such, the IEC Slave 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

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## 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
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

The MVI69-101S module accepts commands from an attached master unit. A port configured as a virtual slave permits a remote master to interact with all data contained in the module. This data can be derived from the CompactLogix processor. The remote master device uses the fully-configured databases in the module to control outputs and monitor inputs. The module can operate in balanced or unbalanced mode.

- Supports time stamp events
- Supports time and data synchronization from a master or the processor
- Supports monitored data
- Event queue supports 100 points for each data type
- Supports Master Class 1 and Class 2 polls with configurable parameters
- Acknowledgement transmission is handled internally by the module
- Configurable data link address (session) and common ASDU address (sector)
- Configurable pulse duration

## 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 <http://www.prosoft-technology.com> for a complete list of products.

## Ordering Information

To order this product, please use the following:

MVI69-101S      IEC 60870-5-101 Slave  
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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