



# DATASHEET

## IEC 60870-5-101 Slave Communication Module MVI69-101S



The MVI69-101S IEC 60870-5-101 Slave Communication Module allows CompactLogix™ and MicroLogix™ 1500 LRP processors to interface easily with IEC 60870-5-101 protocol compatible hosts.

The MVI69-101S module is the fastest and easiest way to add IEC 60870-5-101 protocol interface support to the CompactLogix and MicroLogix 1500 LRP platforms. It is a single-slot, backplane compatible solution. It also has two powerful and highly configurable redundant IEC 60870-5-101 slave ports, allowing the many SCADA and field devices supporting the IEC protocol to be integrated into the CompactLogix and MicroLogix 1500 platforms.

Features	Benefits
Licensed Backplane Technology	<ul style="list-style-type: none"> <li>Manufactured under license from Rockwell Automation</li> <li>Installs as a Generic 1769 module; sample ladder logic included</li> <li>View module data and status in RSLogix 5000 controller tags and UDTs</li> </ul>
IEC 60870-5-101 slave protocol interface	<ul style="list-style-type: none"> <li>The module has two powerful and highly configurable slave ports, allowing the many SCADA and field devices supporting the IEC-101 protocol to be integrated with the processor</li> <li>The module acts as an input/output module between the IEC-101 telecontrol network and the processor</li> <li>The data transfer from the processor is asynchronous from the actions on the network</li> <li>A 5000-word register space in the module exchanges data between the processor and the telecontrol network</li> </ul>
ProSoft Configuration Builder software included	<ul style="list-style-type: none"> <li>Graphical drag-and-drop configuration tool for simple module configuration</li> <li>Easy-to-use diagnostics window with menu-driven hardware and protocol diagnostics</li> <li>View module database contents through serial connection to a desktop PC</li> </ul>
Backed by ProSoft Technology	<ul style="list-style-type: none"> <li>20-year history of delivering high-quality, reliable solutions designed with you in mind</li> <li>Free, unlimited, worldwide Technical Support by phone for pre-sale, set-up, or troubleshooting support helps you get going sooner and stay running longer</li> <li>Three-Year Warranty ensures reliability and protects against equipment failures</li> <li>Free ProSoft Software tools tightly integrate with our hardware - A simple and quick, total solution to help you make our products fit your applications</li> </ul>

### Configuration

ProSoft Configuration Builder (PCB) provides a PC-based software configuration solution for quick and easy management of module configuration files, as well as viewing communication and network diagnostics. PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations into new projects.

## General Specifications

- Single-slot, 1769 backplane-compatible MVI69\_101S\_DS001e
- 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. A sample ladder file with AOI is included.
- Configuration data obtained from configuration text file downloaded to module. A sample configuration file is included.
- Supports CompactLogix and MicroLogix 1500 LRP Controllers except 1769-L23E-QBFC1B, 1769-L16x, and 1769-L18x.

## 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

## Hardware Specifications

Specification	Description
Dimensions	Standard 1769 single-slot module
Current Load	800 mA max @ 5 VDC Power supply distance rating of 2 (L43 and L45 installations on first 2 slots of 1769 bus)
Operating Temp.	32°F to 140°F (0°C to 60°C)
Storage Temp.	-40°F to 185°F (-40° C to 85°C)
Relative Humidity	5% to 95% (with no condensation)
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

## Agency Approvals and Certifications

Please visit our website: [www.prosoft-technology.com](http://www.prosoft-technology.com)



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our web site at: [www.prosoft-technology.com](http://www.prosoft-technology.com)

## IEC 60870-5-101 Slave Communication Module

MVI69-101S

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](http://www.prosoft-technology.com) and select *Where to Buy* from the menu.

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