



## PROFIBUS DPV1 Master Communication Module MVI69-PDPMV1

*With the growing usage of the PROFIBUS DPV1 protocol in the industrial marketplace, this product has a wide variety of application uses. Industries that use this technology include:*

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

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## PROFIBUS DPV1 Master Communication Module

### MVI69-PDPMV1

The PROFIBUS DPV1 Master module is a powerful communication interface for CompactLogix I/O compatible processors. The module incorporates proprietary backplane technology that enables powerful data exchange with CompactLogix I/O compatible processors.

### Features and Benefits

The module supports complete Master specifications according to IEC 61158. Acyclic parameter data can be transferred with Class 1 or Class 2 DPV1 services, allowing processors to easily communicate with slave devices supporting PROFIBUS DPV0/V1 protocol.

The module acts as an input/output module between the PROFIBUS network and the CompactLogix or MicroLogix processors. Data transfer from the processor is asynchronous with the I/O data transfer on the PROFIBUS network. Databases are user-defined and stored in the module to hold the data required by the protocol.

### 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 ProSoft Configuration Builder Software, which defines the PROFIBUS network, and then downloads the configuration to the module using the serial port of the PC
- Supports all CompactLogix processors: L20/L30/L31/L32/L35 and L43 (L43 supported with RSLogix 5000 v16)
- 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 Serial Port Activity Serial Activity and Error Status
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only No hardware handshaking
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration Cable

## Functional Specifications

The inRAx PDPMV1 PROFIBUS Master module acts as a PROFIBUS network scanner, transferring Input and Output data between PROFIBUS devices and processor data memory over the backplane.

- Master Busview configuration interface via included ProSoft Configuration Builder software (see PSW-PCB)
- Project-unique GSD file import library
- Monitoring and Modification of process data and DPV1 acyclic data
- Multi-drop on a PROFIBUS DPV1 network with other compatible devices
- Automatic project documentation
- Automatic Bus Parameter calculation
- Online slave diagnostics
- Supports all standardized baud rates, up to 12 Mbps
- Supports extended diagnostic data (DPV1)
- Multiple masters can be placed in a single rack
- CRC checksum determination of slave configuration consistency to processor
- Master Status LED Indicators for Operations, Network Communication, Master Token-Hold and Network Configuration
- FDT/DTM PROFIBUS master transport communication DTM software included (see PSW-CDTM-PDPM)

## PROFIBUS Master Specifications

- Up to 125 Slaves can be connected with a repeater
- Up to 1536 cyclic bytes input and 1536 bytes output data
- Supports Extended Diagnostic Data
- RS-485 optically isolated PROFIBUS Interface with on board DC-DC converter
- Acyclic communications (DPV1), Read and Write
- Alarm Handling (DPV1)
- Supports Sync and Freeze commands
- Supports PROFIdrive 3.1 compliant parameter read and write operations
- Supports Multicast and Broadcast telegrams (DPV1)

## PROFIBUS Master Port

- DB-9F Optically Isolated RS-485
- Ready, Run, Error and Token LED Indicators
- PROFIBUS DPV1 RS-485 interface with a 9-pin D shell female connector and isolated Opto-Couplers

## Additional Products

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

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-PDPMV1** PROFIBUS DPV1 Master 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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