



PROFIBUS DP Slave Communication Module MVI69-PPDS

With the growing usage of the PROFIBUS DP 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 DP Slave Communication Module

MVI69-PPDS

The MVI69 PROFIBUS DP Slave Communication Module allows CompactLogix I/O compatible processors to interface easily with a PROFIBUS DP Master device.

Features and Benefits

The PROFIBUS DP Slave protocol driver supports the PROFIBUS V0 Slave implementation, providing powerful data transfer capability between the module and CompactLogix processors. User configurable data mapping and DP port operation make the interface an easy to use and powerful data transfer tool.

The MVI69 module Configuration/Debug Serial port connects a PC to the module for configuration, status, monitoring, and troubleshooting (Serial cable is included with product shipment). After editing on a PC, a configuration file is downloaded and stored on the MVI69 module.

The PROFIBUS DP Slave gives access to the unit's input and output images with up to 244 bytes of Input and Output data, for a maximum of 400 bytes total. These Input and Output data blocks are mapped by the user within the module's data memory allowing maximum flexibility and data transfer with other protocols.

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 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

PROFIBUS Slave Port Specifications

Type	Specifications
General Parameters	
Internal Database	400 registers (words) available
GSD File	Downloadable from ProSoft-Technology.com web site and on product CD

PROFIBUS Slave

Communication parameters	Baud Rate: 9.6 kbps to 12 Mbps
Supported I/O length	244 Bytes Input data 244 Bytes Output data 400 Bytes combined maximum
Supported PROFIBUS DP features	Freeze Mode Sync Mode Auto Baud Setting
Configurable Parameters	a) PROFIBUS Node Address: 0 to 125 b) Data byte swapping c) Action on loss of PROFIBUS connection d) Comm Fail Timeout Multiplier

Physical Connection

PROFIBUS Connector	Standard PROFIBUS DB-9F communication connector. Cable connection matches PROFIBUS pin out specification.
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Functional Specifications

The PROFIBUS Slave gives access to the unit's input and output images with up to 122 words of Input and Output data, for a maximum of 200 words total.

- Supports all standardized baud rates, up to 12Mbps
- Configuration data is stored in non-volatile memory in the MVI69 module
- Supports extended diagnostic data (DPV0)
- Auto baud detection at all valid PROFIBUS V0 rates
- Multiple modules can be placed in a single rack

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-PDPS PROFIBUS DP 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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