

DATASHEET

PROFIBUS DPV1 Master Communication Module MVI69-PDPMV1

The PROFIBUS DPV1 Master module is a powerful communication interface for Rockwell Automation[®] CompactLogix / MicroLogix[®] processors. Developed under license from Rockwell Automation, the module incorporates proprietary backplane technology that enables powerful data exchange with CompactLogix / MicroLogix processors.

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 / MicroLogix processor. Data transfer from the processor is asynchronous with the I/O data transfer on the PROFIBUS network.



Features

- ◆ 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 memory and processor controller tags. A sample ladder file with AOI is 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 CompactLogix and MicroLogix 1500 LRP Controllers except 1769-QBFC1B, 1769-L16x, and 1769-L18x

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 (Part Number 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 (Part Number 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



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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 (L43 and L45 installations on first 2 slots of 1769 bus)
Operating Temp.	0°C to 60°C (32°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% (with no condensation)
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

Agency Approvals and Certifications

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Ordering Information

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MVI69-PDPMV1

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