PROFIBUS DPV1 Master Communication Module
MVI56-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

How to Contact Us: Sales and Support
All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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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 ControlLogix processor. 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 - 1756 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 (add-on instruction) included.
- Local or remote rack
- Configurable I/O backplane sizes allow optimal performance for remote rack applications
- CIPconnect™ enabled. Module supports communications with ProSoft Configuration Builder
  and FDT comDTM via Ethernet routing using Rockwell Automation Ethernet interface.
Hardware Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backplane Current</td>
<td>800 mA @ 5 V DC</td>
</tr>
<tr>
<td>Load</td>
<td>3mA @ 24V DC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 60°C (32 to 140°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to 85°C (-40 to 185°F)</td>
</tr>
<tr>
<td>Shock</td>
<td>30g Operational</td>
</tr>
<tr>
<td>Vibration</td>
<td>50g non-operational</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% to 95% (non-condensing)</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>Module Status</td>
</tr>
<tr>
<td></td>
<td>Backplane Transfer Status</td>
</tr>
<tr>
<td></td>
<td>Application Status</td>
</tr>
<tr>
<td></td>
<td>Serial Activity and Error LED Status</td>
</tr>
<tr>
<td>Debug/Configuration port (CFG)</td>
<td>RJ45 (DB-9M with supplied cable)</td>
</tr>
<tr>
<td></td>
<td>RS-232 only</td>
</tr>
<tr>
<td></td>
<td>CIPconnect™ Ethernet routing using 1756-ENBT, 1756-EN2T or similar</td>
</tr>
<tr>
<td>Shipped with Unit</td>
<td>RJ45 to DB-9M cables for each port</td>
</tr>
<tr>
<td></td>
<td>6-foot RS-232 configuration cable</td>
</tr>
</tbody>
</table>

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.


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)

Ordering Information

To order this product, please use the following:

MVI56-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

Distributors:

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