



## PROFIBUS DP Slave Communication Module

### PTQ-PDPS

The PROFIBUS DP Slave module is a powerful communication interface for Unity and Quantum platform processors that allows you to interface easily with a PROFIBUS DP Master device. Developed under license from Schneider Electric, the module incorporates proprietary backplane technology that enables powerful data exchange with Unity and Quantum processors.

### Features and Benefits

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

The PTQ 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 PTQ 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 inRAX module's data memory allowing maximum flexibility and data transfer with other protocols.

### General Specifications

- Single Slot - Quantum backplane compatible
- The module is recognized as an Options module and has access to PLC memory for data transfer
- Configuration data is stored in non-volatile memory in the ProTalk module
- Up to six modules can be placed in a rack
- Local rack - The module must be placed in the same rack as processor
- Compatible with common Quantum / Unity programming tools
- Quantum data types supported: 3x, 4x
- High speed data transfer across backplane provides quick data update times
- Sample ladder file available

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### PTQ-PDPS

*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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## Hardware Specifications

Specification	Value
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
Vibration	Sine vibration 4-100 Hz in each of the 3 orthogonal axes
Shock	30G, 11 mSec. in each of the 3 orthogonal axes
Dimensions (HxWxD), Approx.	250 x 103.85 x 40.34 mm 9.84 x 4.09 x 1.59 in
LED Indicators	Module Status Backplane Transfer Status Serial Port Activity LED Serial Activity and Error LED Status

### Debug/Configuration Ports

Configuration Serial Port (PRT1)	DB-9M PC Compatible RS-232 only No hardware handshaking
Configuration Ethernet port	RJ45 Connector Link and Activity LED indicators Electrical Isolation 1500 V rms at 50 Hz to 60 Hz for 60 s, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration

### Application Port

PROFIBUS Slave Port	DB-9F Optically Isolated RS-485 Error and Act LED Indicators
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## Functional Specifications

### PROFIBUS Slave Port Specifications

Type	Specifications
General Parameters	
Internal Database	400 registers (200 words) available
GSD File	Downloadable from ProSoft-Technology.com web site
<b>PROFIBUS Slave</b>	
Communication parameters	Baud Rate: 9.6 kbps to 12 Mbps
Supported I/O length	122 words Input data 122 words Output data 200 words combined maximum
Supported PROFIBUS DP features	Freeze Mode Sync Mode Auto Baud Setting

Type	Specifications
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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## 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:

PTQ-PDPS	PROFIBUS DP Slave Communication Module
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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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