

PROFIBUS DP Slave Network Interface Module for Quantum, non-CE PTQ-PDPS

The PTQ-PDPS PROFIBUS DP Slave Communication Module allows compatible processors to interface easily with a PROFIBUS DP Master device. The PROFIBUS DP Slave protocol driver supports the PROFIBUS V0 Slave implementation, providing powerful data transfer capability between the module and 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 module's data memory allowing maximum flexibility and data transfer with other protocols.



Features	Benefits
PROFIBUS DP-V0 Slave protocol interface	<ul style="list-style-type: none"> ◆ Adds PROFIBUS DP Slave device monitoring and control to a network ◆ Easy configuration - GSD file provided ◆ 122 words input/122 words output, 200 words maximum I/O
Licensed Backplane Technology	<ul style="list-style-type: none"> ◆ Manufactured under license from Rockwell Automation® ◆ High-speed data transfer between PTQ module and processor ◆ Installs as a Generic 1756 module, sample ladder logic included ◆ View module data and status in RSLogix™ 5000 controller tags and UDTs
ProSoft Configuration Builder software included	<ul style="list-style-type: none"> ◆ Graphical drag-and-drop configuration tool for simple module configuration ◆ Easy to use diagnostics window with menu-driven hardware and protocol diagnostics ◆ View module database contents through serial connection to a desktop PC
Backed by ProSoft Technology	<ul style="list-style-type: none"> ◆ 20-year history of delivering high-quality, reliable solutions designed with you in mind ◆ Free, unlimited, worldwide Technical Support by phone for pre-sale, set-up, or troubleshooting support helps you get going sooner and stay running longer ◆ Three-Year Warranty ensures reliability and protects against equipment failures ◆ Free ProSoft Software tools tightly integrate with our hardware...a simple and quick, total solution to help you make our products fit your applications

Configuration

ProSoft Configuration Builder (PCB) provides a PC-based software configuration solution for quick and easy management of module configuration files, as well as viewing communication and network diagnostics.

PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations into new projects.

PROFIBUS Slave Port Specifications

General Parameters

Internal Database	400 registers (200 words) available
GSD File	Downloadable from www.prosoft-technology.com

PROFIBUS Slave

Communication parameters	Baud Rate: 9.6 kbps to 12 Mbps
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Supported I/O length	122 words Input data 122 words Output data 200 words combined maximum
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Supported PROFIBUS DP features	Freeze Mode Sync Mode Auto Baud Setting
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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
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Physical Connection

PROFIBUS Connector	Standard PROFIBUS DB-9F communication connector. Cable connection matches PROFIBUS pin out specification.
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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
- Configuration software for Microsoft Windows XP, 2000 and NT is included with the module
- Up to four modules can be placed in a rack
- Local rack - The module must be placed in the same rack as processor
- Compatible with all common Quantum programming packages, including Concept (version 2.6 or higher), Unity Pro (version 2.2 or higher), ProWORX (version 2.20 or later), and ModSoft.
- 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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Hardware Specifications

Specification	Value
Backplane Current Load	1100 mA maximum @ 5 Vdc ± 5%
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95% (without condensation)
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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Agency Approvals & Certifications

CSA/cUL	C22.2 No. 213-1987
CSA CB Certified	IEC61010
ATEX	EN60079-0 Category 3, Zone 2 EN60079-15



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Additional Products

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Ordering Information

To order this product, please use the following:

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PTQ-PDPS

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