ProSoft®
TECHNOLOGY

Where Automation Connects.

PLX51-PBS

PROFIBUS DP Slave to EtherNet/IP™, Modbus® TCP/IP, or Modbus® Serial Gateway

Stand Alone Gateway

November 30, 2022

Your Feedback Please

We always want you to feel that you made the right decision to use our products. If you have suggestions, comments, compliments or complaints about our products, documentation, or support, please write or call us.

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PLX51-PBS Release Notes
For Public Use.

November 30, 2022

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1   Start Here

This document highlights the new features, fixes, enhancements and known issues for the PLX51-PBS gateway.

1.1   About the PLX51-PBS

The PLX51-PBS gateway provides connectivity to EtherNet/IP™, Modbus® TCP/IP, or Modbus® Serial networks for PROFIBUS DP networks by operating as a PROFIBUS DP slave.

For easy integration to a Rockwell Automation Controller, the gateway and configuration software create dynamic AOI's based on the user configuration to add logical tag names to the PLC project file. Thus, reducing programming time.

For configuration of Modbus TCP/IP or Modbus Serial Networks, the module will automatically map PROFIBUS DP data points to registers on a Modbus network.

With advanced tools such as a built in PROFIBUS DP packet capture utility, PROFIBUS DP network commissioning time can be greatly reduced.

Dual Ethernet ports of the module can support either DLR (Device Level Ring) topology, or can be used as an embedded switch for flexible installation options.

With support for up to 1536 bytes of Input and Output data, and up to 4 EtherNet/IP connections back to the processor, this module provides performance and data throughput for even the most demanding of PROFIBUS applications.

As a PROFIBUS DP slave device, the module can emulate from 1 to as many as 10 slave DP nodes, providing up to 1536 bytes of Input and Output Cyclic I/O data between EtherNet/IP devices and a PROFIBUS DP master. This eliminates the need for using DPV1 messaging when more than 244 bytes of data needs to be exchanged between a PROFIBUS master and an EtherNet/IP network.

1.2   Release Enhancements

Release Version	Release Date	Description
1.001.040	1-Nov-2022	Minimum firmware revision required to run on hardware with the "HB" designation in the F/W REV product label.
1.001.039	21-Jun-2021	• Added support to emulate Legacy Prolinx slave device • EtherNet/IP Explicit Messaging feature • Added support to allow a DP Master to upload configuration • Added byte/word swapping at device level • Added support for Modbus FC 5 & 6
1.001.037	31-Mar-2021	• Added Non-SINT Array support o EtherNet/IP Explicit Messaging feature • Fixed PROFIBUS Endian Format in Modbus mode for INT data type

1.001.035	6-Jul-2020	• Added support for configuration upload
		• Fixed issues:
		   o Data exchange bits to clear after slave node address change
		   o Supports Modbus function 5 and 6
		   o Slave sends requests to Modbus register when auxiliary map is enabled

1.001.032	9-Jan-2020	• Added Modbus TCP/IP and RTU functionality
		• Added Modbus Auxiliary Map and Modbus Packet Capture to PLX50CU
		• Fixed issues with previous EIP release
		   o Show major, minor, and build revisions in Status Window
		   o TCP/ARP tab of status window display issue

1.001.017	28-Aug-2019	Release

2   Support, Service & Warranty

2.1   Contacting Technical Support

ProSoft Technology, Inc. is committed to providing the most efficient and effective support possible. Before calling, please gather the following information to assist in expediting this process:

1. Product Version Number
2. System architecture
3. Network details

If the issue is hardware related, we will also need information regarding:

1. Module configuration and associated ladder files, if any
2. Module operation and any unusual behavior
3. Configuration/Debug status information
4. LED patterns
5. Details about the interfaced serial, Ethernet or Fieldbus devices

Note: For technical support calls within the United States, ProSoft Technology's 24/7 after-hours phone support is available for urgent plant-down issues.

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