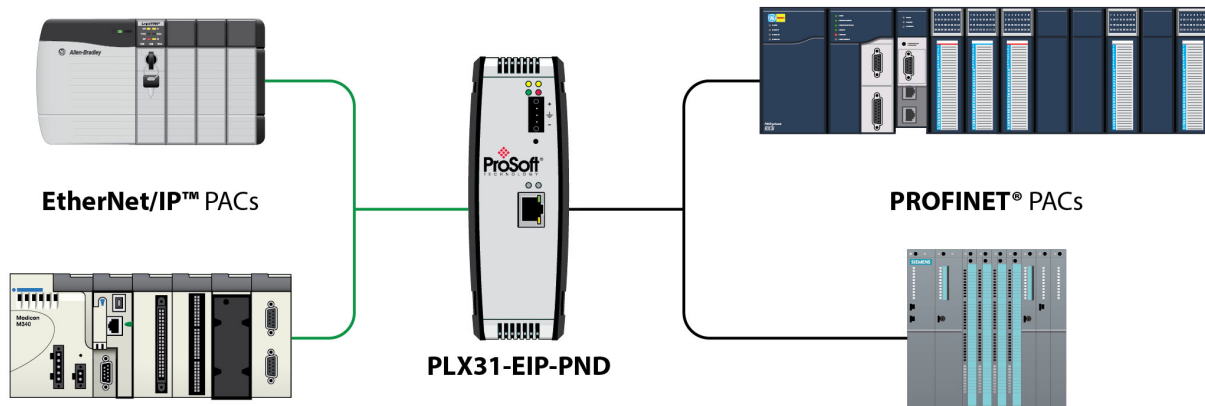# DATASHEET

EtherNet/IP™ to PROFINET® IO Device Gateway
PLX31-EIP-PND

The EtherNet/IP™ to PROFINET® IO Device (slave) gateway offers bi-directional data transfers between EtherNet/IP™ controllers and a PROFINET® IO controller. The EtherNet/IP™ Driver supports I/O connections for guaranteed data delivery or Message instructions to send data to/from the PACs. The gateway supports 1440 bytes of input data and 1440 bytes of output data for larger applications.

In addition, the gateway's multiple I/O connections, allow you to set different RPIs for control data and module diagnostics, enabling you to optimize your Ethernet bandwidth.

EtherNet/IP™ PACs

PLX31-EIP-PND

PROFINET® PACs

Features

♦ Embedded EDS Add-On Profile allows for simplified integration and reduced configuration time for Rockwell Automation PACs.

♦ No ladder programming is required when using I/O connections.

♦ Multiple I/O connections allow you to set different RPIs for status and control data, enabling Ethernet bandwidth optimization.

♦ Communication via an I/O connection provides guaranteed data delivery and enables a PAC to monitor for communication faults.

♦ SD card slot (SD card optional) is used for storing configuration files in the event of a disaster.

♦ ProSoft Discovery Service allows your PC to find the gateway and edit its default IP address without being on the same subnet.

♦ Video setup tutorial provided at psft.com/Ap5

♦ Secure module configuration via module switch (v1.04 and greater).

♦ Up to 10,000 16-bit registers can be used to exchange large amounts of data.

Specifications

EtherNet/IP™ Specifications

Specification	Description
Number of Class 3 Server Connections	5
Supported PLC Types	PLC2, PLC5, SLC, CLX, CMPLX, MICROLX
Supported Message Types	PCCC and CIP
Number of Class 3 Client Connections	Connected: 2 Unconnected: 1
Number of Class 1 I/O Connections	8
Max I/O connection size In/Out	496/496 bytes
Max RPI time	10 ms per connection
CIP Services Supported	0x4C - CIP Data Table Read 0x4D - CIP Data Table Write CIP Generic
Command List	Support for 100 commands per Client, each configurable for command type, IP address, register to/from addressing and word/bit count.
Command Sets	PLC-2/PLC-3/PLC5 Basic Command Set PLC5 Binary Command Set PLC5 ASCII Command Set SLC500 Command Set

PROFINET Specifications

Specification	Description
Driver Type	Class A Device
PROFINET I/O Data	1440 bytes IN, 1440 bytes OUT
Exchange Types	Cyclic Real-time (RT) and Acyclic Data

Hardware Specifications

Specification	Description
Power Supply	24 VDC nominal 10 to 36 VDC allowed Positive, Negative, GND Terminals
Current Load	24 VDC nominal @ 300 mA 10 to 36 VDC @ 610 mA maximum
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Shock	IEC 60068-2-27; 15G @ 11ms, 3-Axis (Operational) IEC 60068-2-27; 30G @ 18ms, 3-Axis (Non-Operational)
Vibration	IEC 60068-2-6; 5G @ 10 to 150 Hz
Relative Humidity	5% to 95% RH with no condensation
Dimensions (H x W x D)	5.38 x 1.99 x 4.38 in 13.67 x 5.05 x 11.13 cm
LED Indicators	Configuration (CFG), Error (ERR), Power (PWR), Hardware Fault (FLT), Network Status (NS), EtherNet/IP™ Class I or Class III Connection Status (EtherNet/IP Only) Module Status (MS), Module Configuration Status (EtherNet/IP Only) Ethernet Communication Port Link/Activity, and 100 mbit
Ethernet Port	10/100Mbit full- and half-duplex RJ45 Connector Electrical Isolation 1500 Vrms at 50 to 60 Hz for 60 seconds, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency is less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
Shipped With Each Unit	2.5 mm screwdriver J180 Power Connector

Agency Approvals and Certifications

Please visit our website: www.prosoft-technology.com

Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our website at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

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PLX31-EIP-PND

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: www.prosoft-technology.com and select *Where to Buy* from the menu.