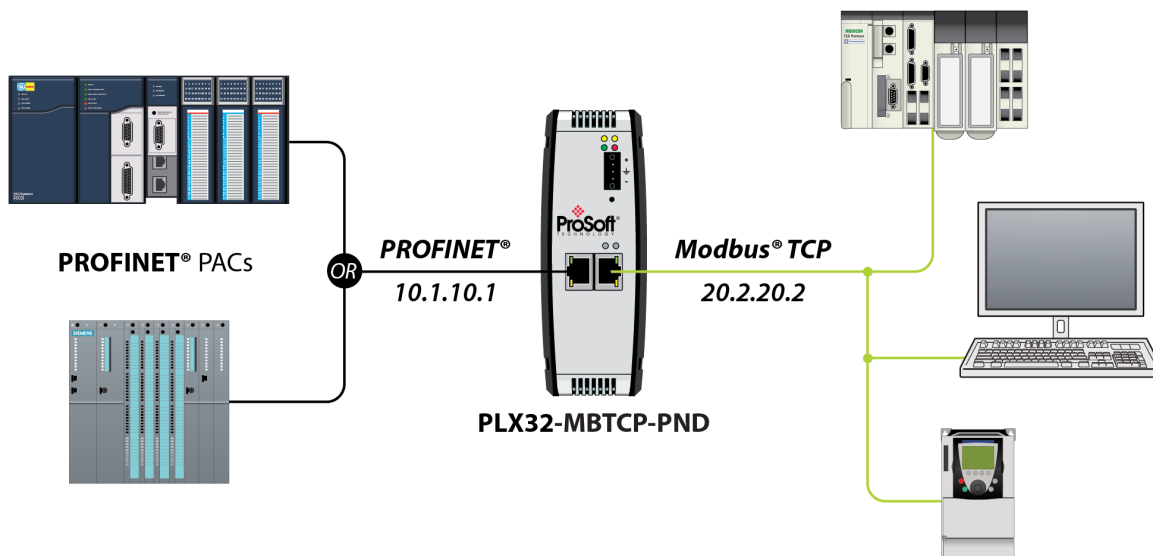


# DATASHEET

## Modbus<sup>®</sup> TCP/IP to PROFINET<sup>®</sup> Device Gateway PLX32-MBTCP-PND

The Modbus TCP/IP to PROFINET device gateway offers bi-directional data transfers between a PROFINET Controller and Modbus TCP/IP networks. The Modbus TCP/IP driver uses Multiple Clients and Servers for faster data throughput. The PROFINET driver operates as a PROFINET device (slave).

The PLX32-MBTCP-PND gateways are stand-alone DIN-rail mounted units that provide two Ethernet ports for network communications, remote configuration, and diagnostics. The onboard SD Card slot (SD card optional) is used for storing configuration files that can be used for recovery, transferring the configuration to another gateway, or general configuration backup.



### Features

- ◆ PROFINET v2 certification with PROFINET Class A compliance
- ◆ Field-tested with multiple Modbus TCP/IP devices, and PROFINET controllers from multiple vendors
- ◆ Remotely view and diagnose Modbus TCP/IP and PROFINET networks
- ◆ Remote configuration via the free, intuitive, ProSoft Configuration Builder
- ◆ Multiple, simultaneous Modbus TCP/IP client and/or server connections to allow for increased throughput
- ◆ Video setup tutorial provided on [www.prosoft-technology.com](http://www.prosoft-technology.com)
- ◆ 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

## Modbus TCP/IP Specifications

Specification	Description	
Supported Modbus Function Codes	1: Read Coil Status	15: Force (Write) Multiple Coils
	2: Read Input Status	16: Preset (Write) Multiple Holding Registers
	3: Read Holding Registers	22: Mask Write Holding Register (Slave Only)
	4: Read Input Registers	23: Read/Write Holding Registers (Slave Only)
	5: Force (Write) Single Coil	
	6: Preset (Write) Single Holding Register	
Supported Clients	10	
<b>Supported Servers</b>		
MBAP	5	
Encapsulated	5	
Command List	Up to 160 fully configurable Client commands	
Status Data	Error codes reported individually for each command	
Command List Polling	Each command can be individually enabled or disabled; write-only-on-data-change is available	

## 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 VDC to 36 VDC allowed Positive, Negative, GND Terminals
Current Load	24 Vdc nominal @ 300mA 10 to 36 VDC @ 610mA 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)
Relative Humidity	5% to 95% RH with no condensation
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 @ 10Hz to 150Hz
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) and Error (ERR) Status Power (PWR) and Hardware Fault (FLT) Network Status (NS) Modbus TCP™ Class I or Class III Connection Status (Modbus TCP Only) Module Status (MS) Module Configuration Status (Modbus TCP Only) Ethernet Communication Port Link/Activity and 100mbit
Ethernet Ports (2)	10/100Mbit full- and half-duplex RJ45 Connector Electrical Isolation 1500 Vrms at 50 Hz to 60 Hz for 60 seconds, 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
Shipped With Each Unit	2.5 mm screwdriver J180 Power Connector

## Agency Approvals and Certifications

Please visit our website: [www.prosoft-technology.com](http://www.prosoft-technology.com)



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## Ordering Information

To order this product, please use the following:

### Modbus® TCP/IP to PROFINET® device Gateway

PLX32-MBTCP-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](http://www.prosoft-technology.com) and select *Where to Buy* from the menu.

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