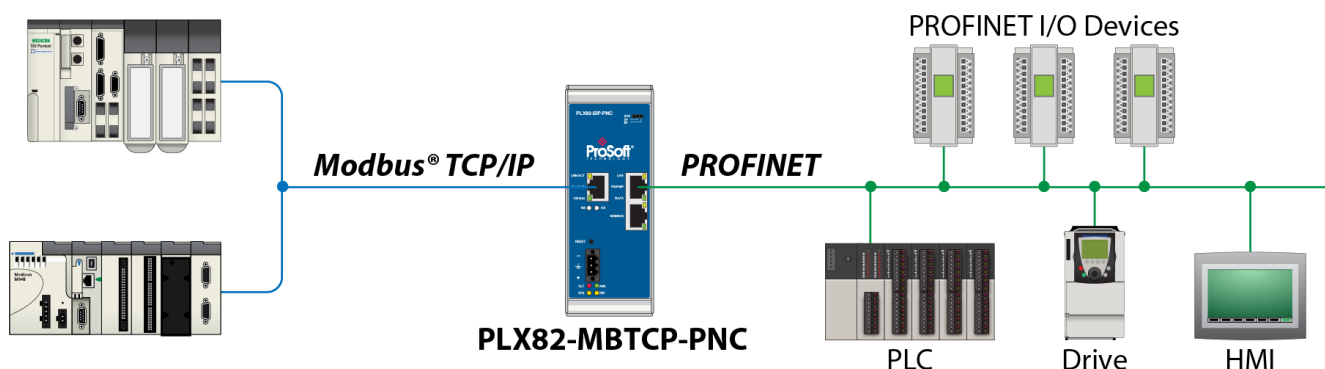


# DATASHEET

## Modbus<sup>®</sup> TCP/IP to PROFINET Controller Gateway PLX82-MBTCP-PNC

The Modbus<sup>®</sup> TCP/IP to PROFINET Controller Gateway allows you to connect two giants of industrial automation through secure, high-speed communications. The gateway provides Modbus TCP/IP-based controllers the ability to control up to 36 PROFINET RT devices such as field I/O, drives, HMIs, and controllers.

The PLX82-MBTCP-PNC gateways are stand-alone DIN-rail mounted units that provide two Ethernet ports for 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

- ◆ Isolated Ethernet ports allow devices on different protocols to be on different subnets
- ◆ PROFINET v2 certification with PROFINET class A compliance
- ◆ Field-tested with multiple PROFINET devices from multiple vendors
- ◆ Remotely view and diagnose Modbus TCP/IP and PROFINET networks
- ◆ Video setup tutorial provided on [www.prosoft-technology.com](http://www.prosoft-technology.com)

## Modbus TCP/IP Specifications

Supported Modbus Function Codes	1: Read Coil Status 2: Read Input Status 3: Read Holding Registers 4: Read Input Registers 5: Force (Write) Single Coil 6: Preset (Write) Single Holding Register	15: Force (Write) Multiple Coils 16: Preset (Write) Multiple Holding Registers 22: Mask Write Holding Register (Slave Only) 23: Read/Write Holding Registers (Slave Only)
Supported Clients	10	
Supported Servers	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 1 RTC, Class 1 RTA
PROFINET I/O Data	3840 bytes IN, 3840 bytes OUT
Exchange Types	Cyclic Real-time (RT) and Acyclic Data
PROFINET Devices	Max: 36   Max data per device: 1440 bytes in/out

## Hardware Specifications

Specification	Description
Power Supply	24 VDC nominal 10 to 36 VDC allowed Positive, Negative, GND Terminals
Current Load	24 VDC nominal @ 400mA 10 to 36 VDC @ 610mA maximum
Operating Temperature	0° to 50°C (32° to 122°F)
Storage Temperature	-10° to 70°C (-14° to 158°F)
Relative Humidity	5% to 95% RH with no condensation
Shock	Operational: IEC 60068-2-27; 15G @ 11ms, 3-Axis Non-Operational: IEC 60068-2-27; 30G @ 18ms, 3-Axis
Vibration	IEC 60068-2-6; 5G @ 10 to 150 Hz
Dimensions (H x W x D)	5.52 x 2.06 x 4.37 in 14.01 x 5.24 x 11.09 cm
Ethernet Port	10/100Mbit RJ45 Connector Electrical Isolation 1500 Vrms at 50 to 60 Hz for 60 seconds.
Shipped With Each Unit	2.5 mm screwdriver, J180 Power Connector, 5' straight-through Ethernet cable

## Agency Approvals and Certifications

ATEX Zone 2
CB Safety
CE Mark
UL/cUL Class I Div II



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## Ordering Information

To order this product, please use the following:

## Modbus TCP/IP to PROFINET Controller Gateway

PLX82-MBTCP-PNC

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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