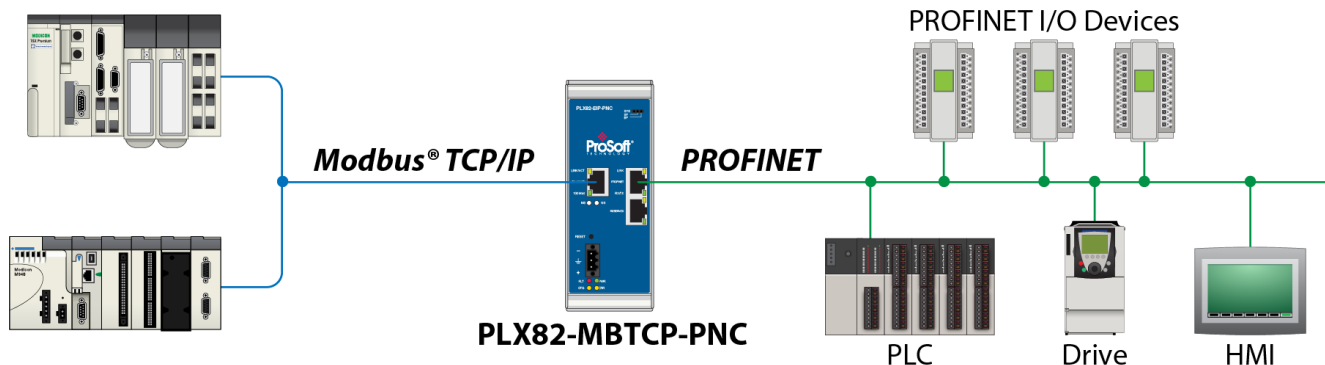


DATASHEET

Modbus® TCP/IP to PROFINET Controller Gateway PLX82-MBTCP-PNC

The Modbus® 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

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 |

Agency Approvals & Certifications

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



Where Automation Connects™

Global Distribution

ProSoft Technology® products are distributed and supported worldwide through a network of over 500 distributors in over 50 countries. Our knowledgeable distributors are familiar with your application needs. For a complete list of distributors, go to: www.prosoft-technology.com

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 and select *Where to Buy* from the menu.

Copyright © 2022 ProSoft Technology, Inc.
All Rights Reserved. August 17, 2022
For Public Use.

Specifications subject to change without notice.