

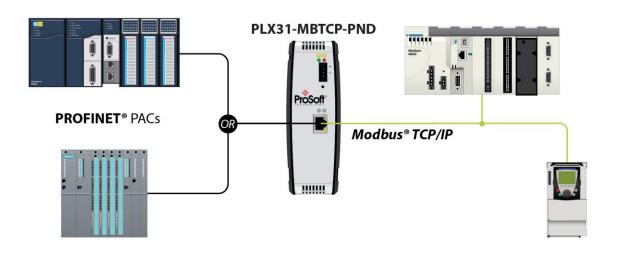
DATASHEET

Modbus® TCP/IP to PROFINET® Device Gateway PLX31-MBTCP-PND

The Modbus TCP/IP to PROFINET device gateway offers bi-directional data transfer 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 PLX31-MBTCP-PND gateways are stand-alone DIN-rail mounted units that provide one Ethernet port 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

- ♦ 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 (PCB) software
- ♦ Multiple, simultaneous Modbus TCP/IP client and/or server connections to allow for increased throughput

Modbus TCP/IP Specifications

opoomoanomo	
1: Read Coil Status	15: Force (Write) Multiple Coils
2: Read Input Status	16: Preset (Write) Multiple
3: Read Holding Registers	Holding Registers
4: Read Input Registers	22: Mask Write Holding
5: Force (Write) Single Coil	Register (server only)
6: Preset (Write) Single	23: Read/Write Holding
Holding Register	Registers (server only)
10	
MBAP = 5, Encapsulated =	5
Up to 160 fully configurable	client commands
Error codes reported individ	ually for each command
ng Each command can be individually enabled or disabled;	
write-only-on-data-change is	s available
	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 10 MBAP = 5, Encapsulated = Up to 160 fully configurable Error codes reported individ

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)
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 @ 10 to 150 Hz
Dimensions	5.38 x 1.99 x 4.38 in
(H x W x D)	13.67 x 5.05 x 11.13 cm
LED Indicators	*Configuration (CFG)
	*Error (ERR) Status
	*Power (PWR)
	*Hardware Fault (FLT)
	*Network Status (NS) Modbus TCP/IP Class I or Class III -
	Connection Status (Modbus TCP/IP only)
	*Module Status (MS) Module Configuration Status
	(Modbus TCP/IP only) *Ethernet Communication Port Link/Activity and 100mbit
Ethornot Dort	*10/100Mbit RJ45 Connector Electrical Isolation 1500 Vrms
Ethernet Port	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, ProSoft Solutions DVD, J180 Power
	Connector, 5' straight-through Ethernet cable

Agency Approvals and Certifications
CE Mark
UL/cUL Class I Div II
ATEX Zone 2
CB Safety



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Ordering Information

To order this product, please use the following:

Modbus TCP/IP to **PROFINET Device** Gateway

PLX31-MBTCP-PND

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