DATASHEET

PLX32-MBTCP-104
Modbus TCP/IP to IEC 60870-5-104 Gateway
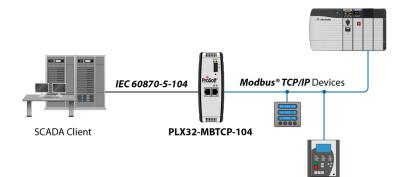
❖ ProSoft Technology®

Integration of Modbus TCP/IP® products into IEC 60870-5-104 networks can be a challenge, but not with ProSoft Technology's PLX32-MBTCP-104 gateway.

The gateway has dual Ethernet ports, providing the option to have one Ethernet port communicating on both Modbus TCP/IP and IEC 60870-5-104 networks, or independent communication ports for each protocol.

The gateway provides powerful communications on the Modbus TCP/IP network, operating as either a Client or a Server to various devices such as PLC's, Drives, HMI's and various other equipment supporting the Modbus TCP/IP protocol.

On the IEC 60870-5-104 side of the communications, the gateway operates as a server, accepting commands from client devices such as a SCADA system or DCS system.

IEC 60870-5-104 — SCADA Client — PLX32-MBTCP-104 — Modbus® TCP/IP Devices

Features

❖ Up to 10,000 words of user-defined memory to share data between IEC 60870-5-104 and Modbus TCP/IP networks

❖ Up to 1000 points of each supported ASDU type can be exchanged on the IEC-60870-5-104 network

❖ Modbus TCP/IP support as both Client (Master) and Server (Slave)

❖ Ability to operate using one Ethernet port, or 2 individual Ethernet ports

❖ Upload, Download, Diagnostics via ProSoft Configuration Builder (PCB) via an Ethernet connection

❖ Configurable Common ASDU address (sector) and Information Object Address for IEC 60870-5-104 application

❖ Optional support for SD card for configuration storage (Sold separately)

Specifications

Modbus TCP/IP Specifications

Specification	Description
Number of Modbus TCP/IP Client Connections	10
Supported Function Codes	1,2,3,4,5,6,15, and 16
Number of Modbus TCP/IP Client Commands	16 each client connection 160 total
Number of Modbus TCP/IP Server Connections	5 Simultaneous Server connections

IEC 60870-5-104 Server

Specification	Description
Operating mode	IEC 60870-5-104 Server
Simultaneous Connections	3
Unsolicited Messaging	Either cyclic or spontaneous
Group Interrogation	Global, General 1 to 16, Global Counters, Counters 1 to 4
Supported ASDU types	Up to a maximum of 1000 of each of the following ASDU types are supported: M_SP_NA, M_DP_NA, M_ST_NA, M_ME_NA, M_ME_NB, M_ME_NC, M_IT_NA, C_SC_NA, C_DC_NA, C_RC_NA, C_SE_NA, C_SE_NB, C_SE_NC

Hardware Specifications

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)
Humidity	IEC 60068-30; 5% to 95%, with no condensation
Shock	IEC 60068-2-27; 15G @ 11ms (Operational) IEC 60068-2-27; 30G @ 11ms (Non-Operational)
Vibration	IEC 60068-2-6; 5G @ 10 to 150 Hz
Dimensions (H x W x D)	5.38 x 1.99 x 4.38 in 13.67 x 5.05 x 11.13 cm
Ethernet Port	(2) 10/100 Base-T, RJ45 connector
SD Card	(Optional) Maximum supported size 32GB (located at back of gateway)

Agency Approvals and Certifications

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

Ordering Information

To order this product, please use the following:

PLX32-MBTCP-104

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.