# DATASHEET

## PLX32-EIP-104
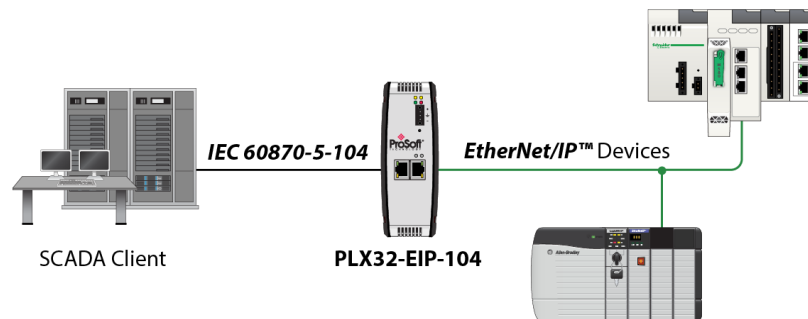### EtherNet/IP to IEC 60870-5-104 Gateway

**ProSoft Technology®**

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

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

The gateway provides powerful communications on EtherNet/IP networks, operating as either a Client or a Server to various devices such as PLC's, Drives, and various other equipment supporting the EtherNet/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

EtherNet/IP™ Devices

SCADA Client          PLX32-EIP-104

## Features

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

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

❖ EtherNet/IP support as both Client (Class 3 PCCC or CIP) and Server (Class 1 I/O, Class 3 PCCC or CIP)

❖ 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

## EtherNet/IP™ Specifications

| Specification | Description |
|---|---|
| Number of Class 3 Server Connections | 5 |
| Supported Message Types | PCCC and CIP |
| Number of Class 3 Client Connections | Connected:  2<br>Unconnected: 1 |
| Number of Class 1 I/O Connections | 8 |
| I/O Connection Sizes | 248/248 |
| Minimum RPI Time | 5mSec per connection |
| CIP Services Supported | 0x4C:CIP Data Table Read<br>0x4D:CIP Data Table Write<br>CIP Generic |
| Command List | Support for 100 commands (Class 3 MSG) per Client |
| Command Sets | PLC-2 / PLC-3 / PLC5 / SLC500 |

## 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:<br>M_SP_NA, M_DP_NA, M_ST_NA, M_ME_NA, M_ME_NB, M_ME_NC, M_IT_NA,<br>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<br>10 to 36 VDC allowed<br>Positive, Negative, GND Terminals |
| Current Load | 24 VDC nominal @ 300 mA<br>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)<br>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<br>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