



DATASHEET

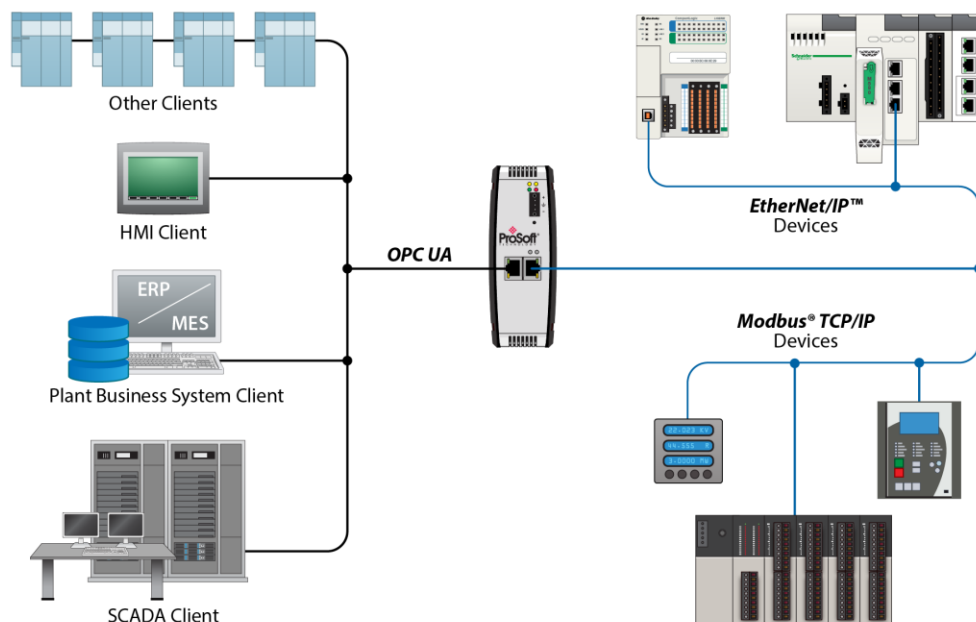
EtherNet/IP™ to Modbus® TCP/IP to OPC UA Server Gateway PLX32-EIP-MBTCP-UA

Need to get data from your EtherNet/IP™ or Modbus® TCP/IP-based devices to your OPC UA clients to be analyzed so you can reduce your operating costs or increase your production?

ProSoft Technology's EtherNet/IP to Modbus TCP/IP to OPC UA Server communication gateway allows high-speed tri-directional data transfers between EtherNet/IP PACs and Modbus TCP/IP devices, while also providing an OPC UA Server connection.

The Modbus TCP/IP driver features multiple, simultaneous client and server connections for faster data transmission. For simplified integration and reduced commissioning time for Rockwell Automation® EtherNet/IP-enabled PACs, an EDS AOP is provided.

The highly reliable and secure OPC UA Server supports 10 simultaneous OPC UA sessions that provide access to EtherNet/IP and Modbus TCP/IP data from the respective networks.



Features

- ◆ Two separate Ethernet ports allow EtherNet/IP and Modbus TCP/IP to reside on a different subnet than the OPC UA Server.
- ◆ All three protocols operate independently and simultaneously while accessing common process data.
- ◆ Data prioritization: Multiple EtherNet/IP I/O connections allow for different RPIs for status and/or control data.
- ◆ Includes an embedded EDS Add-On Profile, allowing for simplified integration and reduced commissioning time.
- ◆ Gateway includes an SD card slot (SD card optional) for storing configuration files. This can be used for disaster recovery.

Specifications

EtherNet/IP™ Specifications

Specification	Description
Number of Class 3 Server Connections	5
Supported PLC Types	PLC2, PLC5, SLC, CLX, CMLX, MICROLX
Supported Message Types	PCCC and CIP
Class 3 Client Connections	Connected: 2 Unconnected: 1
Number of Class 1 I/O Connections	8
I/O connection sizes	248/248
Max RPI time	5 ms per connection
CIP Services Supported	0x4C: CIP Data Table Read 0x4D: CIP Data Table Write CIP Generic
Command List	Support for 100 commands (Class 3 MSG) per Client
Command Sets	PLC-2/PLC-3/PLC5/SLC500

Modbus® TCP/IP Specifications

Specification	Description
Supported Function Codes	1, 2, 3, 4, 5, 6, 15, 16, 22 and 23 (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

OPC UA Server

Specification	Description
Client Connections	10 simultaneous connections supported
Security	Sign, Sign and Encrypt with policies Basic256Sha256, Basic256 and Basic128Rsa15, and None
Transport protocol / encoding	opc.tcp / binary
User authentication and authorization	User name/Password based authentication and Role based authorization
Configuration	GUI based Configuration Tool
Supported profiles	UA 1.02 Embedded Server and Data Access

Environmental

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
Dimensions (H x W x D)	5.38 x 1.99 x 4.38 in 13.67 x 5.05 x 11.13 cm

Approvals and Certifications

ATEX Zone 2
CB Safety
CE Mark
UL/cUL Class 1 Div 2



Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our website at: www.prosoft-technology.com

Ordering Information

To order this product, please use the following:

EtherNet/IP™ to Modbus® TCP/IP to OPC UA Server Communication Gateway

PLX32-EIP-MBTCP-UA

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.



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