

DATASHEET

ELX-EIP-MBTCP EtherNet/IP™ and Modbus® TCP Protocol Gateway Container

The ELX-EIP-MBTCP is a Docker Container designed to provide protocol gateway conversion to the ProSoft Technology ELX3 hardware platform. This protocol gateway container facilitates the data exchange between the EtherNet/IP™ (EIP) and Modbus® TCP (MBTCP) protocols, supporting both Client and Server functionalities for each supported protocol.

The protocol gateway container is configured with the ProSoft Configuration Builder (PCB) software. PCB is also used to download and upload the EtherNet/IP and Modbus TCP network configurations to the container.

The EIP driver is tested and certified by the ODVA organization and includes a shared database between EtherNet/IP and Modbus TCP protocols, as is done with the ProSoft Technology PLX3x-EIP-MBTCP Communication Gateway.



Features

- ◆ **Webpage UI** contains the container name (ELX-EIP-MBTCP), Project name loaded to the container, Container IP address, revision, Serial Number, Uptime (YY-MM-DD HH:MM:SS format), and FOSS BOM.
 - ◆ **Diagnostics** option contains protocol diagnostics, protocol configuration, and database data values.
 - ◆ **ProSoft Configuration Builder (PCB)** is used to configure the protocol gateway container. PCB simplifies the task of managing multiple configuration files for a variety of ProSoft Technology products.
 - ◆ **ProSoft Discovery Service (PDS)** is launched from PCB or as a standalone software and scans the network for all instances of ProSoft Technology protocol gateway containers.
 - ◆ EtherNet/IP™ Conformance Tested
 - ◆ Modbus® TCP Client and/or Server support
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EtherNet/IP™ Specifications

Specification	Description
Number of Class 3 Server Connections	5
Supported PLC Types	ControlLogix®, CompactLogix™
Supported Message Types	CIP
Class 3 Client Connections	Connected: 2 (100 commands per client connection) Unconnected: 1
Number of Class 1 I/O Connections	8
I/O connection sizes	Input: 1 to 248 Output: 1 to 248
RPI Time Ranges	8 Connections: 10ms minimum RPI for all connections
CIP Services Supported	0x4C: CIP Data Table Read 0x4D: CIP Data Table Write CIP Generic
Client Command List	Support for 100 commands per Client, each configurable for command type, IP address, register to/from addressing and word/bit count.

Modbus® TCP Specifications

Specification	Description
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 8: Diagnostics, Sub-function 00: Echo (Server Only) 15: Force (Write) Multiple Coils 16: Preset (Write) Multiple Holding Registers 22: Mask Write Holding Register (Server Only) 23: Read/Write Holding Registers (Server Only)
Supported Clients	10
Client Command List	Up to 160 fully configurable Client commands (Maximum 16 commands per Client)
Supported Servers	MBAP: 5 Encapsulated: 5
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 supported

Agency Approvals & Certifications

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



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

More Information

For more information, please contact ProSoft Technology or your local distributor.

ELX-EIP-MBTCP

EtherNet/IP™ and Modbus® TCP Protocol Gateway Container

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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