DATASHEET

ELX3
Industrial Edge Gateway

The ELX3 is a powerful and versatile industrial gateway, purpose-built to address diverse operational technology (OT) requirements.

It functions as an Edge device, leveraging Docker container support to enable the deployment of custom code. This capability allows users to implement advanced applications such as machine learning, predictive maintenance, or specialized protocol drivers directly on the device.

A core feature of the ELX3 is its robust industrial protocol conversion, seamlessly bridging communication between EtherNet/IP™ and Modbus® TCP/RTU/ASCII using the ProSoft ELX-EIP-MB protocol gateway container. This solution is ODVA conformance-tested and built upon ProSoft's established communication gateway technology.

Designed for challenging conditions, the ELX3 hardware boasts an extended operating temperature range of -40°C to +70°C and Class 1 Div 2 ratings. This ensures reliable performance and durability in harsh industrial environments.

In essence, the ELX3 delivers a single, resilient platform that combines critical OT protocol conversion with the flexibility of custom Docker applications, all engineered to thrive in demanding industrial settings.



Features

- Redundant Power connections (12 ~ 24 V DC).
- Multiple Ethernet ports (4) supporting 10/100/1000 Mbit/s.
- One serial port supporting RS-232/422/485.
- Industrial-rated hardware supporting user-defined custom Docker container applications.
- ProSoft-supported ELX-EIP-MB protocol gateway container for EtherNet/IP™ and Modbus® TCP/RTU/ASCII protocol gateway conversion.
- Class 1 Division 2 hardware with -40°C to +70°C operating temperature range for Edge applications.

Hardware Specifications

Specification	Description
CPU	NXP i.MX 8M Mini Quad ARMv8 64-bit Cortex-A53 @ 1.6GHz
Memory	LPDDR4 4GB
Storage	64GB eMMC storage (~15GB user available)
Dimensions (W x H x D)	48 x 137 x 105 mm 1.89 x 5.39 x 4.13 in
Weight	613 g, 1.35 lbs
Housing Material	Aluminium with DIN clip
Mounting	DIN Rail 35 mm
Protection class	IP30
Ethernet Ports	4 x Gigabit Ethernet RJ45 LAN
Ethernet Port Speed	10/100/1000 Mbit/s RJ45
Serial Port	1 x RJ45 connector. Supports RS-232/422/485
USB Port	USB 2.0 socket
Power Supply	Plug-in terminal block, 6-pin
Operating Voltage	Redundant 12 ~ 24 VDC
Power Consumption	Max. 12W
Power Output in BTU	58 Btu (IT)/h
Diagnostics	LEDs (Power, Link, USR1)

Environmental

Specification	Description
MTBF (Telecordia SR-332 Issue 3) @ 25°C	387,288 hours
Operating Temperature	-40°C to +70°C
Storage/Transport Temperature	-40°C to +85°C
Relative Humidity (non-condensing)	5% to 95%

Service

Specification	Description
Protocols	SNMPv3 HTTPS Ping NTP (Client/Server) DNS Dynamic DNS DHCP (server/client)

Software

Specification	Description
Management	Local Web UI for configuration, diagnostics, and maintenance
Configuration	Web Interface
Miscellaneous	NTP Client and Server, DHCP Client, DNS Client
Application Support and Management	Docker Containers

Agency Approvals & Certifications

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ELX3

Industrial Edge Gateway

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