DATASHEET

Industrial Edge Gateway
ELX3

The ELX3 ProLinx Edge™ Gateway is designed to combine OT Protocol Conversion with edge computing capabilities to meet your most demanding Industrial Internet of Things (IIoT) applications.

For industrial protocol conversion, the ELX3 supports the ProSoft ELX-EIP-MBTCP protocol gateway container, giving you the ability to do protocol gateway conversion for EtherNet/IP to Modbus TCP/IP. Built on the field proven ProSoft communication gateway solutions and as an EtherNet/IP ODVA conformance tested solution, this protocol gateway container solves many OT protocol conversion needs.

The ELX3 additionally provides the ability to run Docker containers providing the flexibility to run custom code for advanced applications such as machine learning, predictive maintenance, or custom protocol drivers.

With hardware supporting an extended operating temperature range of -40C to +70C as well as Class 1 Div 2 ratings, this Edge gateway is designed to withstand harsh industrial environments.

The new ProLinx Edge™ ELX3 module provides OT protocol conversion and the ability to concurrently run custom Docker container applications all in a single hardware platform designed to withstand harsh conditions.

Features

❖ Redundant Power connections (12 ~ 24 V DC)

❖ Multiple Ethernet ports (4) supporting 10/100/1000 Mbit/s

❖ Industrial-rated hardware supporting user defined custom Docker container applications

❖ ProSoft supported ELX-EIP-MBTCP protocol gateway container for EtherNet/IP and Modbus TCP/IP protocol gateway conversion

❖ Class 1 Division 2 hardware with -40°C to +70 °C operating temperature range for Edge applications

Specifications

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
USB Ports	1 x USB 2.0 socket
Power Supply	Plug-in terminal block, 6-pin
Operating Voltage	Redundant 12 ~ 24 V DC
Power Consumption	max. 12 W
Power Output in BTU (IT)/h	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

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