



**Product:** [OpEdge-4D](#) 

**Industrial Edge Gateway Device for DIN Rail Mounting**

**Product Description**

OpEdge-4D is a more cost-effective choice for applications that have lower computing requirements and provides robust edge computing power in a more compact design. With multiple hazardous location approvals, OpEdge-4D can operate in harsh environments.

**Technical Specifications**

**Product description**

Type:	OpEdge-4D
Part Number:	942332003
Port type and quantity:	4 x Gigabit Ethernet RJ45 LAN
Port Speed:	10/100/1000 Mbit/s RJ45

**More Interfaces**

USB interface:	1 x USB 2.0 socket to connect an approved USB storage device
Serial Interface:	1 x RJ45 port (serial tunneling & encapsulation; RS232/422/485)
Power Supply:	1 x plug-in terminal block, 10-pin

**Hardware**

Bypass:	N/A
CPU:	NXP i.MX 8M Mini ARMv8 64-bit Cortex-A53 @ 1.6 GHz (quad core)
Encryption:	TPM 2.0 (Trusted Platform Module)
Memory:	LPDDR4 4 GB
Storage:	64 GB eMMC storage

**Power requirements**

Operating Voltage:	Dual 10 ~ 30 V DC
Power consumption:	2.5 - 12W

**Security features**

Multipoint VPN:	External connectivity via OpenVPN, IPsec or Belden Horizon™ console
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**Service**

Protocols:	SNMPv3, HTTPS, SSL-VPN, L2TP, Ping, NTP (Client/ Server), DNS, Dynamic DNS, DHCP (Server/Client), Syslog
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**Software**

Redundancy:	Routing between LAN and WAN, WAN Backup
Management:	Local Web UI for configuration, diagnostics and maintenance, Supports FTP/SFTP through Belden Horizon™ console
Diagnostics:	LEDs (Power, Link Status, Data, Status), Signal Contact (24 V DC/1 A), Log File, Syslog
Configuration:	Web Interface, Belden Horizon™ Console

Security:	<ul style="list-style-type: none"> <li>Integrated Firewall</li> <li>Allowed IP List to prevent unwanted access</li> <li>Secure Socket Tunneling Protocol (SSTP, port 443) with single use credentials to create tunnels</li> <li>AES-256 bit encryption</li> <li>Activity Logs</li> </ul> Additional IT-friendly security features when using Belden Horizon™ Console (formerly ProSoft Connect™, a secure, cloud-native platform for the Industrial Internet of Things): <ul style="list-style-type: none"> <li>Virtual Lockout, Tagout (vLOTO™) – dynamic authorization for secure remote access</li> <li>Active Directory support via Single Sign On (SSO) with SAML 2.0</li> <li>Email and Token based multi factor authentication</li> <li>Role based access for users and devices</li> <li>Configure password rules and enforcement policies</li> <li>Audit trail with auto-backup</li> </ul>
Miscellaneous:	NTP Client and Server, DHCP Client, DNS Client
Routing:	Routing between LAN and WAN, WAN Backup, IP masquerading, 1-to-1 NAT, port forwarding, L2 bridging
Application Support and Management:	Docker Containers, Docker Compose, App orchestration through Belden Horizon™ console, Docker Compose

## Ambient conditions

Operating temperature:	-40-+70 °C
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	5-95 %

## Mechanical construction

Dimensions (WxHxD):	48 x 137 x 105 mm
Weight:	613 g
Housing Material:	Aluminum with DIN clip
Mounting:	DIN Rail 35 mm

## Approvals

Basis Standard:	CE, FCC
Safety of information technology equipment:	UL 61010
Hazardous locations:	ISA-12.12.-01 Class 1 Div. 2 – Haz. Loc, ATEX-95 Category 3G (Zone 2)

## Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
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## Further Instructions

Product Documentation:	<a href="https://www.doc.hirschmann.com/index.html">https://www.doc.hirschmann.com/index.html</a>
Certificates:	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>
Software Download:	<a href="https://hirschmann-support.belden.com/en-US/news/edge">https://hirschmann-support.belden.com/en-US/news/edge</a>

## History

Update and Revision:	Revision Number: 0.12 Revision Date: 11-05-2024
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## Variants

Item #	Type
942332003	OpEdge-4D

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