



**Product:** [OpEdge-8D](#) 

## Industrial Edge Gateway Device for DIN Rail Mounting

### Product Description

The Hirschmann OpEdge-8D is an industrial-grade, DIN rail mount edge gateway device that brings edge computing capability to automation infrastructure for processing the large volumes of operational data generated in today's highly connected industrial environments.

### Technical Specifications

#### Product description

Type:	OpEdge-8D
Part Number:	942330001
Port type and quantity:	7 ports in total: 5 x Gigabit Ethernet RJ45 LAN + 2 x Gigabit Ethernet SFP WAN
Port Speed:	10/100/1000 Mbit/s RJ45, 1000 Mbit/s SFP

#### More Interfaces

USB interface:	2 x USB 3.0 socket to connect an approved USB storage device
Serial:	2 x DB9 serial interfaces for RS232 protocols
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Power Supply:	1 x plug-in terminal block, 6-pin

#### Hardware

Bypass:	2 x Gigabit Ethernet Copper (2 x 1) with Gen3 Bypass
CPU:	Intel Atom E3950 @ 1.6GHz
Encryption:	TPM 2.0 (Trusted Platform Module)
Memory:	DDR3L 8GB
Storage:	64GB SSD storage

#### Power requirements

Operating Voltage:	Dual 20 ~ 54 V DC
Power consumption:	max. 25 W
Power output in BTU (IT)/h:	58 Btu (IT)/h

#### 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)
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#### Software

Redundancy:	RSTP over MRP, 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
Configuration:	Web Interface, Belden Horizon™ Console

Security:	Integrated Firewall Allowed IP List to prevent unwanted access Secure Socket Tunneling Protocol (SSTP, port 443) with single use credentials to create tunnels AES-256 bit encryption Activity Logs 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, Virtual Machines, App orchestration through Belden Horizon™ console

Ambient conditions

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	387,288 hours
Operating temperature:	-40-+70 °C
Note:	cold start at -20°C
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	5-95 %

Mechanical construction

Dimensions (WxHxD):	65 x 186 x 160 mm
Weight:	1560 g
Housing Material:	Rugged high-strength sheet metal
Mounting:	DIN Rail 35 mm
Protection class:	IP40

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	± 4 kV contact discharge; ± 8 kV air discharge
EN 61000-4-3 electromagnetic field:	10 V/m (80 MHz-1000 MHz); 3 V/m (1.4 GHz-6.0 GHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage:	power line: ± 1 kV (line/ground) and ± 0.5 kV (line/line); data line: ± 1 kV (line/ground)
EN 61000-4-6 Conducted Immunity:	10 V (150 kHz-80 MHz)

EMC emitted immunity

EN 55032:	EN 55032 Class A
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

Approvals

Basis Standard:	CE, FCC
Safety of information technology equipment:	UL 62368-1
Shipbuilding:	DNV
Substation:	EN 61850-3, IEEE 1613

Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
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Scope of delivery and accessories

Scope of delivery:	1 × Device, 2 × DIN Rail Kit
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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: 0.77 Revision Date: 03-25-2025
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Variants

Item #	Type
942330001	OpEdge-8D

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