HIRSCHMANN
A BELDEN BRAND



# 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 |
| Name: | 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 |
| Serial Interface: | 2 x DB9 serial interfaces for RS232 protocols |
| Power Supply: | 1 x plug-in terminal block, 6-pin |

### Hardware

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|---|---|
| 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

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

### Security features

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

### Service

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

### Software

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|---|---|
| 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 |
| Configuration: | Web Interface, Belden Horizon™ Console |

| | |
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| Security: | Integrated Firewall<br>Allowed IP List to prevent unwanted access<br>Secure Socket Tunneling Protocol (SSTP, port 443) with single use credentials to create tunnels<br>AES-256 bit encryption<br>Activity Logs<br>Additional IT-friendly security features when using Belden Horizon™ Console (formerly ProSoft Connect™, a secure, cloud-native platform for the Industrial Internet of Things):<br>● Virtual Lockout, Tagout (vLOTO™) – dynamic authorization for secure remote access<br>● Active Directory support via Single Sign On (SSO) with SAML 2.0<br>● Email and Token based multi factor authentication<br>● Role based access for users and devices<br>● Configure password rules and enforcement policies<br>● Audit trail with auto-backup |
| 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

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

## Mechanical construction

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|---|---|
| Dimensions (WxHxD): | 65 x 186 x 160 mm |
| Weight: | 1560 g |
| Housing Material: | Rugged high-strength sheet metal |
| Mount Type: | DIN Rail 35 mm |
| IP Protection Rating: | IP40 |

## EMC interference immunity

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|---|---|
| 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

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

## Approvals

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

## Reliability

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| Guarantee: | 60 months (please refer to the "terms of guarantee or detailed information) |

## Scope of delivery and accessories

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|---|---|
| Scope of delivery: | 1 × Device, 2 × DIN Rail Kit |

## Further Instructions

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|---|---|
| Product Documentation: | https://www.doc.hirschmann.com/index.html |
| Certificates: | https://www.doc.hirschmann.com/certificates.html |
| Software Download: | https://my.belden.com/s/downloads |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.94 Revision Date: 08-26-2026 |

**Variants**

| Item # | Type |
| --- | --- |
| 942330001 | OpEdge-8D |

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