



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

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| 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

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| USB interface: | 2 x USB 3.0 socket to connect an approved USB storage device |
| Serial: | 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 |
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Service

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| Protocols: | SNMPv3, HTTPS, SSL-VPN, L2TP, Ping, NTP (Client/Server), DNS, Dynamic DNS, DHCP (server/client), Syslog Industrial Protocols* • MQTT (Publisher and Subscriber) • EtherNet/IP • Modbus TCP/IP * Included with use of Data Monitoring application |
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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, Syslog |
| Configuration: | Web Interface, Belden Horizon™ Console |

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| 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): • Virtual Lockout, Tagout (vLOTO™) – dynamic authorization for secure remote access, • Active Directory support via Single Sign On (SSO) with SAML 2.0 • Email and Token based multi factor authentication • Role based access for users and devices • Configure password rules and enforcement policies • 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 (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

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| Dimensions (WxHxD): | 65 mm x 186 mm x 160 mm |
| Weight: | 1560 g |
| Housing Material: | Rugged high-strength sheet metal |
| Mounting: | DIN Rail 35 mm |
| Protection class: | 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 55022 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 |
| Substation: | IEC 61850-3, IEEE 1613 |

Reliability

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

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

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| Product Documentation: | https://www.doc.hirschmann.com/index.html |
| Certificates: | https://www.doc.hirschmann.com/certificates.html |

History

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| Update and Revision: | Revision Number: 0.32 Revision Date: 07-05-2023 |
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