HIRSCHMANN
A BELDEN BRAND



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 12 - 24 V DC
Power Consumption:	2.5 - 12W

Security features

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

Service

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

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:	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, Docker Compose, App orchestration through Belden Horizon™ console, Docker Compose

Ambient conditions

Operating temperature:	-40-+70 °C
Minimum Storage 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
Mount Type:	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 or detailed information)

Further Instructions

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: 0.37 Revision Date: 03-03-2026

Variants

Item #	Type
942332003	OpEdge-4D

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