# Hirschmann Eagle40-4F Firewall

## Industrial Firewall with Enhanced Cybersecurity

EAGLE40-4F

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The Hirschmann EAGLE 40-4F industrial firewall provides real-time traffic monitoring, deep packet inspection and advanced cybersecurity with a low total cost of ownership.

- **Enhanced security** through its ability to learn network traffic patterns automatically, set policies and flag deviations.
- **Multiple certifications** support use in varied industries and environments, including hazardous conditions.

## Key Applications

- Learning mode for detection of traffic patterns and discrepancies.

- Real-time traffic monitoring and robust policy management support industrial organizations' cybersecurity requirements.

- Certifications — including CE, DNV, UL, FCC, ATEX, ISA12.1 — for use in varied industrial environments.

- Simplified deployment and maintenance promote ease of use.

- Integration with Belden network access control (NAC) and leading third-party IDS systems.

- Essential cybersecurity features and cost-optimized design suit the needs of many industrial applications.

## Your Benefits

As industrial networks grow in complexity, enhancing cybersecurity is essential. The Hirschmann EAGLE 40-4F is a next-generation industrial firewall offering deep packet inspection at an optimal price-performance ratio. To safeguard industrial networks, the firewall's unique learning mode allows it to recognize standard traffic patterns, set policies and identify any discrepancies from the norm. Designed with ease-of-use in mind, EAGLE 40-4F provides simplified, plug-and-play configuration and low maintenance requirements.

## Applications

The robust design of the Hirschmann EAGLE 40-4F allows it to withstand the harshest environmental conditions and provide maximum data security. These features make the EAGLE 40-4F firewall ideal for varied industrial applications. With a cost-optimized design, EAGLE 40-4F provides the essential cybersecurity capabilities today's industrial organizations need at a desirable price point.

## Markets

Through its ruggedized design and varied certifications, the Hirschmann EAGLE 40-4F is optimal for many sectors, including mechanical and plant engineering and industrial automation. Other applications include transportation — both railway and train stations — oil and gas, solar power, waste and wastewater, and intelligent traffic systems.

# Product Information

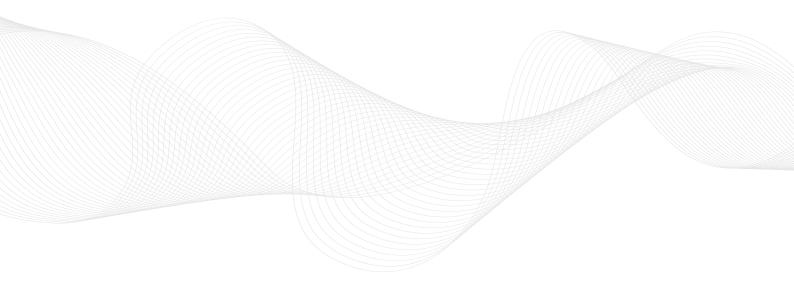## Hirschmann EAGLE40-4F

| Name | EAGLE40-4F |
|---|---|
| **Life Cycle** | |
| Availability | Not yet available |
| **Product Description** | |
| Description | Industrial Firewall with DIN rail Mounting |
| Port Speeds | 4 x GbE RJ45 ports |
| **More Interfaces** | |
| USB Interface | 1 x USB 2.0 port |
| Serial Interface | V.24 console interface |
| **Hardware** | |
| CPU | NXP i.MX 8M Mini ARMv8 64-bit Cortex-A53 @ 1.6GHz |
| Encryption | N/A |
| Memory | LPDDR4 2GB |
| Bypass | N/A |
| Storage | 8GB eMMC storage |
| **Power Requirements** | |
| Operating Voltage | 10 to 30 V DC |
| Power Consumption | Minimum – 2.5W (Gateway powered, communication ports and I/O are not active)<br>Maximum – 12W (Gateway powered, communication ports and I/O active) |
| Power Supply | 1 x plug-in terminal block, 10-pin |
| **Ambient Conditions** | |
| Operating Temperature | -40°C to +70°C |
| Storage/Transport Temperature | -40°C to +85°C |
| Relative Humidity<br>(non-condensing) | 5% to 95% |
| Protective Paint on PCB | No |
| **Mechanical Construction** | |
| Dimensions (W x H x D) | 137 x 48 x 105 mm |
| Mounting | DIN Rail 35 mm |
| Enclosure | Aluminum with DIN clip |
| Weight | 613 g |
| Protection Class | IP30 |
| **Approvals** | |
| Basis Standard | CE, FCC |
| Hazardous Locations | ISA-12.12.-01 Class 1 Div. 2 – Haz. Loc, ATEX-95 Category 3G (Zone 2) |
| Substation | N/A |
| Marine | DNV |

## Reliability

| | |
|---|---|
| **MTBF** | According to MIL-HDBK-217 FN2 279,542 hours GB at 25°C |
| **Warranty** | 5 years |

## Software

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|---|---|
| **Software Version** | HiSecOS |
| **Security** | Firewall rules (incoming/outgoing, management), DoS prevention, IPSec VPN, Audit trail, Role based Access Control, IEEE1686 compliant configuration possible, Deep Packet Inspection (DPI): EtherNet/IP, IEC104, OPC, DNP Modbus, DNP and CAMP, Firewall Leaning Mode (FLM), IPS - Intrusion Prevention via appropriate configuration of ACLs / Packet filtering rules, Multiple interfaces per security zone, Max 16 VPN simultaneous users, L2 transparent |
| **Routing** | Port based routing, static routing, multinetting, IP masquerading, 1-to-1 NAT, port forwarding, Static and Dynamic ARP enteries, OSPFV2, ARP table capacity of minimum 1,000 MAC addresses |
| **Multipoint VPN** | External connectivity via OpenVPN, IPsec or Belden Horizon™ Console (formerly ProSoft Connect™, a secure, cloud-native platform for the Industrial Internet of Things) |
| **Management** | IPSec, IKE v1/v2, 3DES, AES (-128, -192, -256), Pre-Shared Key (PSK), X.509v3 Certificates, MD5, SHA-1, NAT-T, Hub-and-Spoke |
| **Diagnose** | LEDs (Power, Link Status, Data, Status), Signal Contact (24 V DC/1 A), Log File, Syslog, Configuration check RMON (Statistic), Trap for changes and configuration saves |
| **Configuration** | Command Line Interface (CLI), Web Interface, Auto Configuration Adapter (ACA22), HiDiscovery, Industrial HiVision, HiView |
| **Protocols** | HTTPS, SSH, SNMP V1/V2/V3, LLDP, NTP, DHCP |
| **Redundancy Functions** | VRRP (Virtual Router Redundancy Protocol), Tracking Framework for VRRP |
| **Other Services** | NTP Client and Server, DHCP L3 Relay, Anti-malware via appropriate configuration of Stateful / Deep Packet Inspection rules |

**NOTE:** These are the prominent technical specifications. For complete technical specifications visit: www.belden.com