

EAGLE40 Family

Next-generation industrial firewalls

Product Bulletin



The multiport EAGLE40 next-generation firewalls offer a comprehensive cybersecurity solution to maximize uptime in today's stringent automated environments.

- **Ensure heightened performance capabilities** with more port options, at 1 Gigabit per second (Gb/s) bandwidth.
- **Protect against physical and virtual threats** with ruggedized housing and Stateful and Industrial Deep Packet Inspection (SPI/DPI) modules.
- **Gain unrivaled system configurability** for all skill levels with a comprehensive graphical user interface and multi-layer encryption capabilities.

Key features

- Featuring Belden's state of the art HiSecOS firewall software
- Firewall Learning Mode for rule configuration in routing mode
- IPsec VPN for secure data encryption
- Dynamic-routing support with OSPF and router redundancy with VRRP
- Graphical HTML 5 web user interface
- Operating temperature range of -40°C to $+70^{\circ}\text{C}$
- Convection-cooled metal housing
- Assists with cybersecurity regulations: NERC CIP, IEC 62443, NIST
- Flexible management and monitoring: Industrial HiVision
- Industrial protocol DPI for EtherNet/IP, OPC, Modbus TCP, DNP3, IEC104, Siemens S7 and S7 Plus (EAGLE40-03 only), GOOSE (EAGLE40-07 only) and AMP



EAGLE40-03



EAGLE40-07



EAGLE40-4F

Hirschmann's ruggedized EAGLE40 product line exceeds industrial firewall expectations. Featuring Stateful and Industrial Protocol Deep Packet Inspection combined with next-generation multiport configurability for maximum cybersecurity performance.

Your benefits

Hirschmann's multiport EAGLE40 next-generation firewalls deliver a comprehensive cybersecurity solution to ensure maximum protection for production among today's stringent industrial and process automation systems.

Evolving alongside data transfer demands, the EAGLE40 devices include more port options with increased bandwidth and encryption capabilities. Supporting both OSPF dynamic routing and VRRP router redundancy, the device is an economically-sound approach to maximize uptime, regardless of network throughput.

These industrial firewalls incorporate the Hirschmann Security Operating System (HiSecOS) and DPI modules to offer a customizable, around-the-clock solution that meets an infrastructure's unique cybersecurity demands.

The EAGLE40 firewalls validate the protocols in use, examine the payloads and create static filter rules for process values and function codes, eliminating the need for frequent updates to malware or threat signatures.

Applications

Cybersecurity is a top priority in today's digital world. The Hirschmann EAGLE40 firewalls are specifically designed to meet the critical demands of industrial and process automation environments. These devices may come equipped with software modules for deep packet inspection (DPI), catering to a range of industrial protocols. This makes the versatile and highly configurable firewall especially ideal across OT teams with various experience levels and skillsets.

Designed with ease-of-use in mind, the EAGLE40-4F has a simplified, plug-and-play configuration and low maintenance requirements. Its essential cybersecurity features and cost optimized design suit the needs of many industrial applications.

The EAGLE40-03 offers the same simplified configuration as the EAGLE40-4F but with additional connectivity options (+SFP ports) and greater throughput.

The EAGLE40-07 is the most powerful firewall with the greatest number of ports, industry certifications (including substation and maritime), and the highest performance/throughput. Furthermore, the EAGLE40-07 is certified according to IEC 62443-4-2 Component Security Assurance by ISASecure.

With a convection-cooled metal housing and an extensive operating temperature range, EAGLE40 devices support the movement towards IT/OT convergence by providing a comprehensive multi-deployment solution without compromising network uptime. Thus, the EAGLE40 product family is optimally suited to implement a zones and conduits concept according to ISA/IEC 62443, enabling a defense-in-depth network architecture.

Markets

Built to withstand harsh industrial environments, the EAGLE40 next-generation firewalls are backed by robust industry approvals and infrastructure compliance standards appropriately suited for the oil and gas, power transmission and distribution, automotive, warehouse distribution, food and beverage, consumer packaged goods and water and wastewater industries.

The extensive bandwidth and data encryption support also makes the EAGLE40 devices an ideal firewall solution within machine building and general manufacturing settings, as well as for use across secure networks.



The Hirschmann EAGLE40 family is comprised of three different products whose differences in features and certifications ensure that there are options for use in many different applications, environments, and network designs.



Feature comparison



Feature	EAGLE40-4F	EAGLE40-03	EAGLE40-07
Ports	4 × 1 GbE RJ45	3 × 1 GbE RJ45 2 × 1 GbE RJ45 & 1 × 1 GbE SFP	5 × 1 GbE RJ45 & 2 × 1 GbE SFP
Bypass		2 x Gigabit Ethernet Copper (2 × 1) with Gen3 Bypass	
Dimensions (W x H x D)	48 mm x 137 mm x 105 mm	70 mm x 187,2 mm x 135,8 mm	65 mm x 186 mm x 160 mm
Max. Power Consumption	12 W	15 W	25 W
IP Rating	IP30	IP40	IP40
Operating Temperature	-40°C to +70°C		
Safety Approvals	UL 61010	UL 62368-1	
Hazardous Location Approvals		Class I, Division 2	
Substation Approvals			IEC 61850-3, IEEE 1613
Maritime Approvals			DNV
Cybersecurity Certification			IEC 62443-4-2 SL1
Industrial Deep Packet Inspection			
EtherNet/IP	✓	✓	✓
OPC	✓	✓	✓
Modbus TCP	✓	✓	✓
DNP3	✓	✓	✓
IEC104	✓	✓	✓
AMP	✓	✓	✓
GOOSE			✓
Siemens S7 & S7 Plus		✓	

