

EAGLE40-6M

Industrial Firewall for Railway Rolling Stock

PRODUCT BULLETIN

The Hirschmann EAGLE40-6M industrial Rolling stock firewall provides real-time traffic monitoring, deep packet inspection, certifications and features that meet the stringent demands of railway rolling stock.

- **Ability to perform deep packet inspection** on industrial communication protocols used in a railway rolling stock environment.
- **Unique rolling stock certifications** that meet essential transportation industry, European Norm (EN) and international standards.
- **Multicast management capability** to monitor onboard networks and enforce rule sets to make sure all communications are trusted, recognizable and safe.
- **CylusOne interoperability** for multi-level rolling stock fleet, train, and single-car cybersecurity.

Key Features

- Certifications - including CCC, ROHS, FCC/CE, E1, EN55032, EN55035, FCC part 15 class A, EMV06 (DB-Deutsche Bahn), EN50155, EN50121-3-2, EN50121-4, EN 45545-2 HL3, EN 62368, EN61131-2, ECE R118, EA - for use in railway rolling stock environments.
- Graphical HTML 5 web user interface.
- Enhanced security and ruggedized design tailored for train builders and operators provides robust protection against cyber threats and reliability in harsh rail environments, respectively.
- Firewall Learning mode for detection of traffic patterns and discrepancies.
- Real-time traffic monitoring and robust policy management support railway rolling stock cybersecurity requirements.
- Support for IDS platforms, such as CylusOne, provides unmatched visibility and continuous network surveillance and analysis.

Designed to meet the unique and dynamic cybersecurity needs of trains, the ruggedized Hirschmann EAGLE40-6M industrial firewall provides network monitoring and deep packet inspection to safeguard onboard communications.



IDS For Rolling Stock

Belden's railway rolling stock firewalls support IDS platforms, such as CylusOne, providing rail operators a state-of-the-art cybersecurity solution. Some of the capabilities that CylusOne provides are visibility, monitoring, threat detection and compliance. This synergy addresses cost and physical constraints on new and legacy rolling stock, meeting compliance standards. The combined Belden and Cylus solution minimizes space requirements, cuts power consumption, and lowers total cost of ownership, ensuring a secure and efficient solution for rail fleets.

Your Benefits

Cybersecurity is a top concern in the transportation sector, and trains have unique requirements due to their dynamic, moving environments. The Hirschmann EAGLE40-6M brings proven industrial firewall capabilities – plus multiple, industry-relevant certifications – to meet the precise demands of the railway rolling stock sector. With its multicast feature, EAGLE40-6M monitors varied networks to secure onboard communications.

Applications

The robust design of the Hirschmann EAGLE40-6M allows it to withstand the harsh and dynamic environment of moving trains and provide maximum data security. EAGLE40-6M performs deep packet inspection of onboard communications protocols used in a railway rolling stock environment to identify and mitigate potential cyber threats.

