



CYBERSECURITY



SECURE ETHERNET NETWORK SEPARATION

Separation between networks ensures higher Cybersecurity in rail vehicles

The new Security Gateway is specifically designed to provide maximum security for your railroad networks. This device effectively separates up to 4 internal networks, providing unparalleled protection against potential threats. Combined with the latest Threat Detection Device, you can be confident that anomalies are detected early, and your valuable assets and data are safely separated with this Security Gateway.

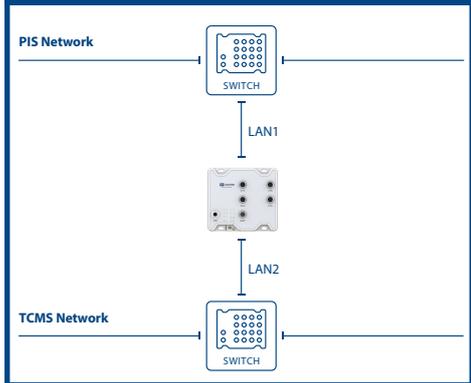
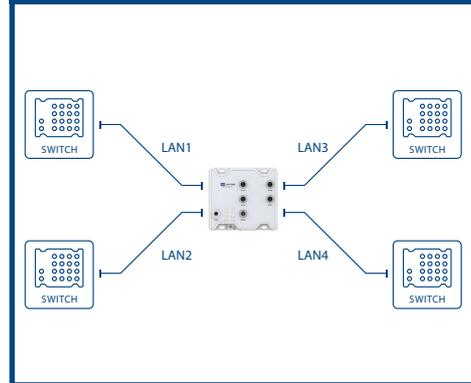
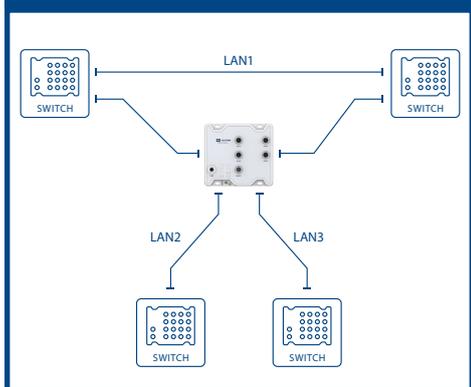
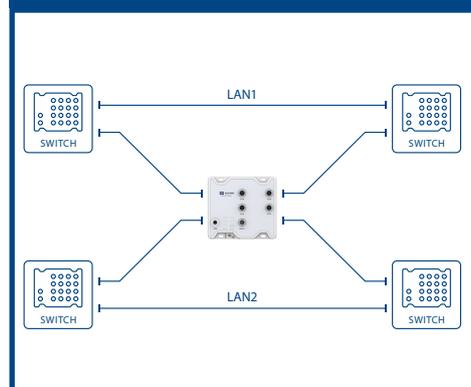
Rail operations of the future will make it necessary to install multiple Ethernet networks within a vehicle. This requires functionality that separates such Ethernet networks not only logically, but also physically. Four integrated Gigabit or Fast Ethernet ports (depending on model) in the Security Gateway 901-TW always form the basis for this separation - and thus for controlled and secure data access. In addition, data communication runs exclusively for clearly defined data telegrams; the gateway filters out all others.

The Security Gateway is not only easy to configure, but it can also be updated to the latest software version at any time.



SELECTRON

Application Examples

<p>SEPARATION BETWEEN PIS AND TCMS NETWORK</p> 	<p>SEPARATION OF UP TO 4 DIFFERENT NETWORKS</p> 	<p>Technical data</p> <ul style="list-style-type: none"> ■ 4x Fast Ethernet or 4x Gigabit Ethernet ports (depending on model) ■ Electrical power supply 24 – 110 V DC ■ Designed for harsh industrial and mobile applications according to EN 50155 ■ Designed for an operating temperature range from -40 to +70 °C ■ Housing protection class IP40 ■ Dimensions 140 x 150 x 48 mm ■ Weight 1500 g <p>FIREWALL FUNCTIONALITIES</p> <ul style="list-style-type: none"> ■ Connection control between separated networks (e.g., Comfort and TCMS) ■ L2 and L3 filtering ■ Input traffic limitation and output traffic shaping, Logging ■ Filters may be applied to any ports
<p>SEPARATION BETWEEN 3 DIFFERENT NETWORKS WITH REDUNDANT FEATURE</p> 	<p>SEPARATION BETWEEN 2 DIFFERENT NETWORKS WITH REDUNDANT FEATURE</p> 	

Discover the entire range of Selectron solutions



Train Control and Management Systems

Individual requirements need individual solutions. That is why there is not one Train Control & Management System for controlling trains and their subsystems. The solutions from Selectron Systems are therefore adapted to the very specific requirements of your automated rail vehicle.



Our services - your success

Nothing is more important than responding to customer- and project-specific needs. We help projects achieve rapid success - with the right hardware architecture, reliable components, efficient software tools and overall knowledge transfer. Our job is to support you from the initial concept idea to the end of the lifecycle.



Communication Technology

Invisible to the eye from the outside, train bus couplers, switches and converters perform indispensable functions in the safe operation of modern rail vehicles. The industry is currently amid the transformation to Ethernet-based communication - with major challenges for train manufacturers and rail operators.

Selectron Systems AG

Bernstrasse 70
3250 Lyss
Switzerland
Phone: +41 32 387 61 61
selectron.ch

 KNORR-BREMSE	 SELECTRON
 NEW YORK AIR BRAKE	 KIEPE ELECTRIC
 IFE	 EVAC
 MERA	 ZELSKO
 MICROELETTRICA	 RAILSERVICES