



ARiS - Remote I/O

Reliable I/O for the next generation of rail vehicles.

ARiS - Remote I/O combines safe and standard I/O in a modular platform for centralized and decentralized vehicle architectures.



SELEKTRON

ARiS - Remote I/O

Modular. Ethernet-based. For centralized and decentralized I/O architectures.

SIL 2

Safety-related signals.

SL-C 2

Security by Design certified according to IEC 62443-4-2.

TRDP / SDTv2

Direct integration with modern TCMS.

24 ... 110 VDC

Versions for typical vehicle voltages.

Designed for rail vehicle control.



Auxiliary systems



Door and access systems



Heating, Ventilation and Air Conditioning (HVAC) control



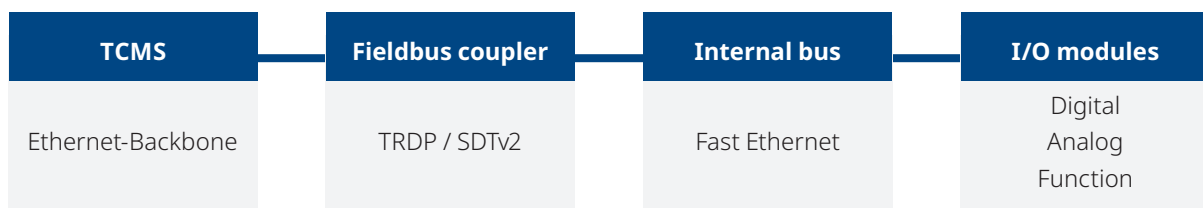
Diagnostic and data concentration



Distributed vehicle I/O

One platform. Seamless integration.

From the Train Control and Management System (TCMS) to the vehicle signal



SELECTRON

Technical highlights

Fieldbus coupler

- SIL 2 or basic integrity
- 2 x Fast Ethernet
- 24 ... 110 VDC

Digital I/O

- SIL 2 or basic integrity
- Up to 16 inputs per module
- Up to 16 outputs per module

Analog I/O

- SIL 2 or basic integrity
- Current / voltage
- Inputs and outputs

Function modules

- Wheel slide protection
- Fast regulator (pressure control)
- Fast input (speed sensor)

Safety & Cybersecurity

Built for dependable rail applications



SIL 2 option

Safety version certified according to EN 50129:2018/AC:2019 SIL 2.



Cybersecurity by design

Certified according to IEC 62443-4-2, Security Level 2 (SL-C 2).



Defense in depth

Protection against accidental and intentional data manipulation.



Certified platform

Integrated toolchain, operating system and safety lifecycle support reduce engineering and approval effort.

Engineering & lifecycle support



Architecture & integration

Support for subsystem architecture, interface design and TCMS integration.



Application engineering

Open programming, integrated toolchain and libraries for efficient development.



Lifecycle & retrofit

Long-term availability, retrofit support and global service for rail projects.

Built for your project success



Qualified & reliable

Developed for rail applications with long-term availability.



Shorter time to market

Pre-qualified platform and reusable software components reduce project time.



Flexible & scalable

From compact stand-alone control to distributed subsystem architectures.



Investment security

Support throughout the entire product and vehicle lifecycle.

Next steps | Find the right ARiS - Remote I/O configuration for your rail vehicle project.



Get in touch

Expert advice and tailored support for your projects.



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