



SAFETY



CYBERSECURITY



CRA
COMPLIANT



APPLICATION
SIGNING

ARiS - Compact PLC

Safe, connected and modular control for
rail vehicle subsystems.

A compact programmable logic controller (PLC) platform
for subsystem control, small rail vehicle applications
and integration into new or existing Train Control and
Management System (TCMS) architectures.



SELECTRON

ARiS - Compact PLC

One controller platform. Multiple rail architectures.



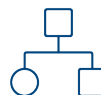
Flexible integration

A modular, scalable system that adapts to the requirements of various vehicle architectures.



Safety and security built-in

SIL 2 certified controller option and SL-C 2 certified according to IEC 62443-4-2.



Ethernet-based communication

Redundant Ethernet with CAN and MVB options for new-built and retrofit vehicles.

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



Retrofit of
existing MVB-
or CAN-based
platforms.

Versatile configuration options.

Scalable from a compact stand-alone controller to a distributed subsystem architecture with local and remote I/O.



SELECTION

Three variants. One platform.

Choose the right PLC for your architecture.
Available in Basic Integrity and SIL 2.

PLC Variant	Communication	Typical use case
 SCPU 201-TW CPU 201-TW	2 × Gigabit Ethernet	New Ethernet-based TCMS and subsystem architectures
 SCPU 202-TW CPU 202-TW	2 × Gigabit Ethernet CAN Fieldbus	Integration of CAN-based subsystems
 SCPU 203-TW CPU 203-TW	2 × Gigabit Ethernet MVB Fieldbus	Retrofit and integration into an existing MVB vehicle platform

Technical highlights

■ Quad-core 64-bit ARM processor, 1.4 GHz ■ 2 GB DDR4 RAM ■ 8 GB flash memory ■ 2 × Gigabit Ethernet ■ USB-C service interface ■ MicroSD card slot	■ Ethernet extension bus for local I/O ■ Real-time clock (RTC) ■ Sealable protective devices for interfaces ■ Wide range power supply: 24 ... 110 VDC ■ DIN-rail mounting
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Safety & Cybersecurity

Built for dependable rail applications



SIL 2 Controller option

Safety version (SCPU) 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 homologation 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



Certified & reliable

Developed for rail applications with long-term availability.



Shorter time to market

Certified platform and reusable software components reduce development time.



Flexible & scalable

From compact stand-alone control to distributed subsystem architectures.



Investment security

Lower total cost of ownership due to durable system components and reliable costs.

Next steps | Find the right compact PLC configuration for your rail vehicle project.



Get in touch

Expert advice and tailored support for your projects.



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