



Smartio Remote I/O

Built for rail vehicles.

Place SIL and non-SIL I/O where the function is.
Reduce terminal strips, shorten field wiring and simplify
commissioning across the vehicle.



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Smartio Remote I/O

Four outcomes that matter.

Less cabling

Fewer terminal strips and shorter connections.

Fewer errors

Coding, labeling, and clear status indication.

Faster start-up

Direct wiring and visible diagnostics.

Flexible fit

Granularity matched to channels and vehicle zone.

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. Three wiring concepts.

1-wire

High granularity

Shared supply pickup and compact I/O. Best where channel density and cabinet-style wiring matter.

2-wire

Direct connectivity

Connect field cables directly. Integrated strain relief and fewer intermediate terminals.

Safety

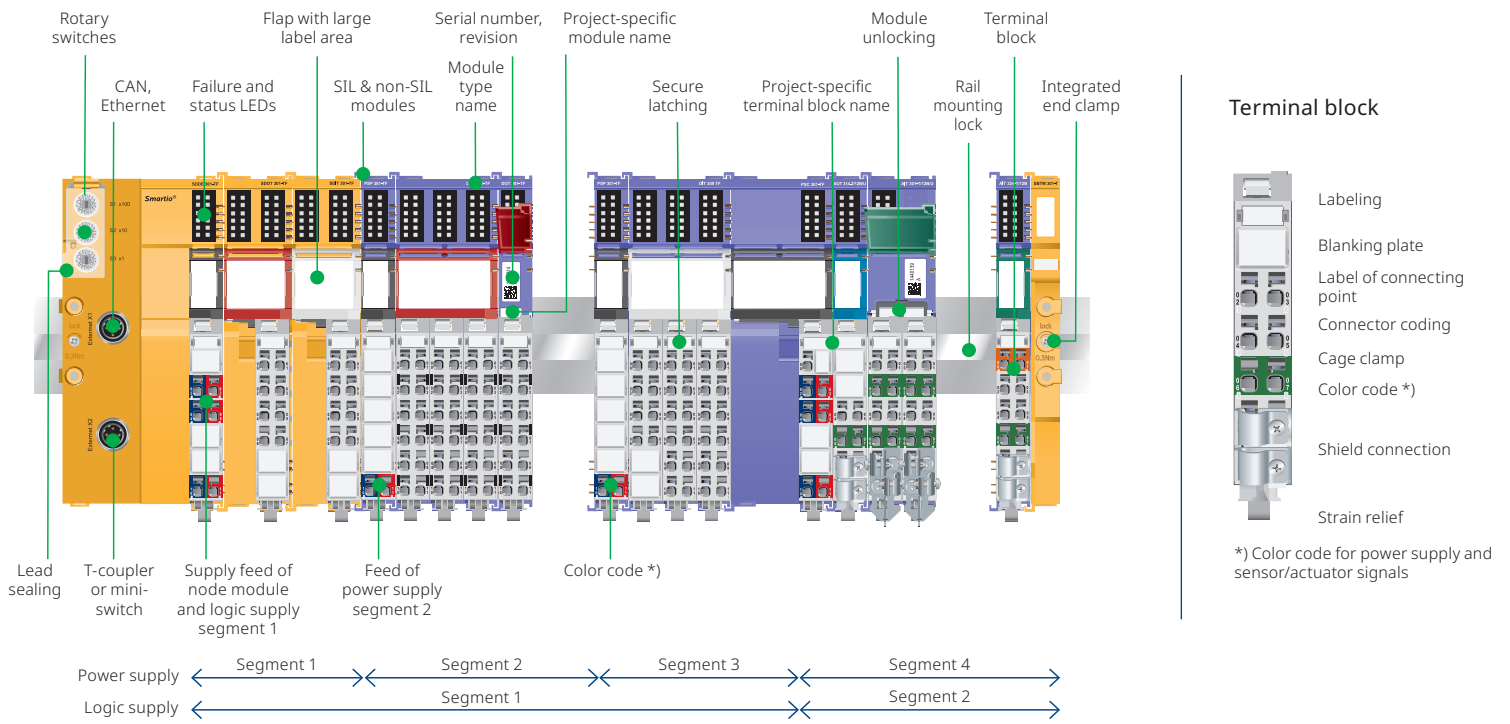
SIL-capable I/O

Direct wiring of safety-oriented sensors and actuators with diagnostics for short circuit and wire breaks.



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Overview of features.



Technical highlights

- Node module: Ethernet, CANopen
- Cage clamp connections
- 1-wire, 2-wire SIL / non-SIL, 3-wire connection
- Redundant wiring concepts
- Power supply: 24 V DC
- Temperature range: Class Tx, -40 °C to 70 °C
- Max. total current per segment: 8 A
- Dimensions: H = 142 mm, D = 70 / 90 mm, W = 14 / 28 / 42 / 67 mm

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.

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 & modular
With its extensive portfolio, Smartio offers maximum flexibility for virtually any vehicle architecture.

Investment security
Support throughout the entire product and vehicle lifecycle.

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

Get in touch
Expert advice and tailored support for your projects.

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