



NEXT GENERATION OF SUBSYSTEM-CONTROLLER

This new PLC-range MAS 2xx gives you utmost flexibility while complying with safety and cyber security

The new performant, flexible and compact midrange CPU serves as VCU for small applications/vehicles or as Subsystem-PLC for various automation solutions. It can be used as standalone PLC or be extended with local I/O-Modules. Remote I/O-Modules can be added using the decentral xDDE node module connected over the L2-Consist Ethernet.

The new PLC-range MAS 2xx has been developed according to the highest standards for Safety (Safety Integrity Level 2) & Cybersecurity (Security Level 2) and thus offer maximum protection for people and the system. With the latest future-proof technology the CPU supports your application in the best way. The Ethernet-based architecture provides performance and redundancy on communication level. In addition, variants with CAN or MVB support the flexibility for system-integration into existing and new projects.



SELECTRON

Convincing user benefits offer cost advantages

Generic and open programmable, qualified, flexible Basic-Integrity and SIL-PLC shortens the approval process of new vehicles and retrofits throughout the entire life cycle.

3 different compact CPUs offering most flexibility with Ethernet, CANopen and MVB communication.

Various I/O-Modules (incl. function- and Wheel-Slide Protection Modules) at your disposal.

Easy integration into any TCMS with quality and performance on which you can rely, always.

Security by Design and Defense in Depth provide protection against accidental and intentional data manipulation according to IEC 62443-4-2 Security Level 2 (SL-C 2).

DIN rail mounting. Integration into 19"-Rack possible using a top hat rail support 3U.

Pre-certified, integrated toolchain and operating system simplify application engineering and vehicle approvals.

The safety version (SCPU) comes with a **SIL 2** (Safety Integrity Level 2) certification according to EN 50129: 2018/AC:2019 SIL2 as **standard**.

Technical data

- Quadcore 64-Bit ARM-based processor 1.4 GHz
- 2 GB DDR4 RAM
- 8 GB Flash Memory
- 2 × Gbit Ethernet Interfaces Push-Pull, Screw M12
- 1 × Micro-SD Memory Card Slot
- 1 × USB-C Service Port
- Ethernet Extension Bus (EBus) for I/O-Module connection
- Real Time Clock (RTC)
- Place-bound Coding Interface (1-wire)

Discover the entire range of Selectron solutions



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 in the midst of the transformation to Ethernet-based communication - with major challenges for train manufacturers and rail operators.



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.



Holistic cybersecurity approach

The digitization of the railways is moving at high speed. The flip side of the coin: The rapid pace of technological development makes rail vehicles vulnerable to cybercrime. All the more important is that you can rely on someone who keeps an eye on the big picture. Selectron is on the spot with its forward-looking cybersecurity solutions.

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