

cSCALE S9

Modular controller for harsh environments

Special Features

- Ethernet, USB, CANopen, CANopen Safety, J1939 interfaces
- CAN extension (ETH-to-CAN Gateway)
- Higher electromagnetic compatibility levels than standards require
- Up to 400 I/Os in one control unit, combined with modular I/O configuration
- Intelligent I/Os with a high degree of diagnostic functionality



cSCALE S9 controller

Description

Due to its modular design, the cSCALE S9 controller adapts to your application – while offering maximum safety and high availability at the same time.

Configuration of the cSCALE S9 can be completely customized from simple control tasks up to a control with more than 400 I/Os, which forms the core for a multitude of mobile applications. A new CAN extension (ETH-to-CAN gateway) offers the option of disconnecting and restarting CAN buses individually and separately during runtime (hard reset).

The i.MX6 processor with 32-bit/528 MHz provides the necessary computing power in the system. In addition, the controller offers an enlarged flash memory with 148 MB and an optional Micro SD card with up to 2 GB memory capacity. In addition, the Floating Point Unit (FPU) that's integrated in the hardware enables even faster calculation of floating points.

The CPU offers a permanently integrated energy memory, which provides enough resources for critical operations even after a hard switch off. Users can configure other critical operations that are essential after an unforeseen shutdown of the application.

The simple programming of the controller is achieved via CODESYS 2.3. This ensures fast integration into your application and long-term support. If there is a system update, it can be easily installed with a standard USB stick – it's faster and has more user feedback than ever before.

Technical Specifications

cSCALE S9	
Protection rating	IP66/67 and IP20
Programming	programmable with CoDeSys 2.3 or C++
Processor	NXP (i.MX6.UL), ARM Cortex A7@528MHz, FPU for fast arithmetic calculation integrated, longevity: 15 years
Memory back-up	CPU power supply back-up on industrial grade SuperCAP, 2 MB DDR3 RAM to FLASH
RAM non-volatile for retain variables	2 MB DDR3 RAM to FLASH back-up
Update-medium	USB-Stick
Time from switch-off to possible switch-on	0s

Dimensions

