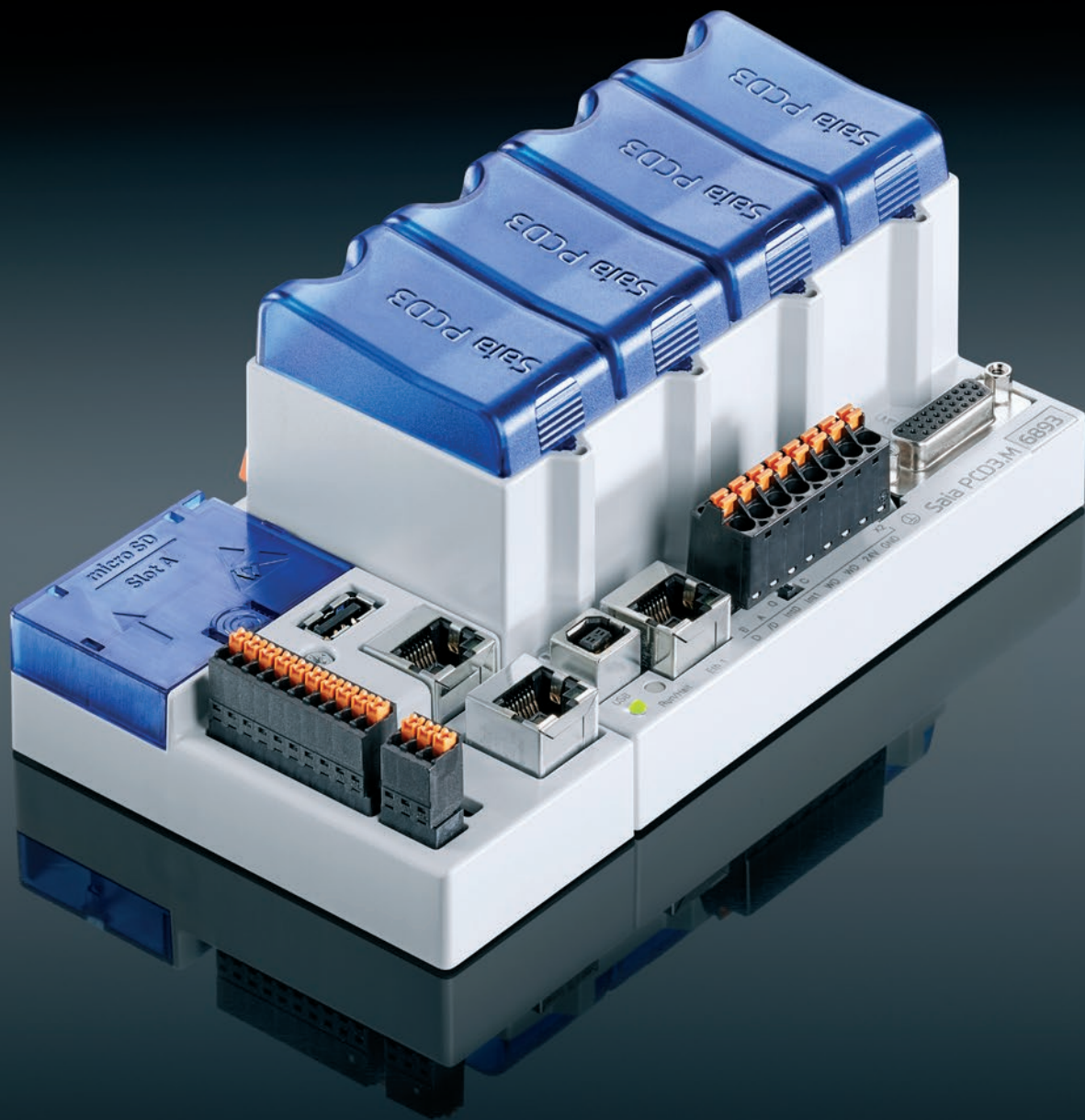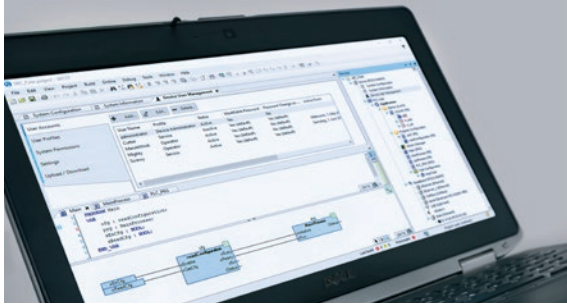# IEC-Controller

IEC 61131-3 programmable and cyber secure

Designed for critical applications

The Saia PCD3.M6893 provides both cybersecurity and high-level language programming, and is compatible with PCD3 I/O. Its operating system, which includes all application and communication programmes, is signed and encrypted, allowing operators to prevent unauthorised access to the process-control system. The PCD3.M6893 is programmable according to the IEC 61131-3 industrial standard for application development and supports all languages outlined therein.
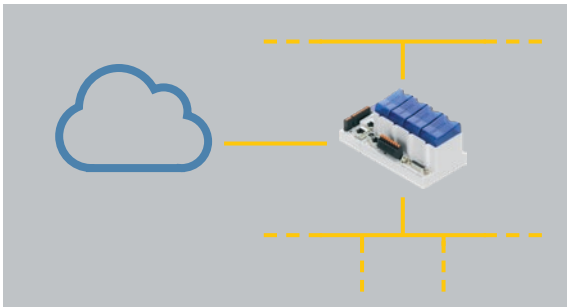
Powerful and efficient engineering

High-level language programming in accordance with IEC 61131-3 provides greater flexibility. It allows the access to a large community of developers, whose published solutions can be reused with greater ease.
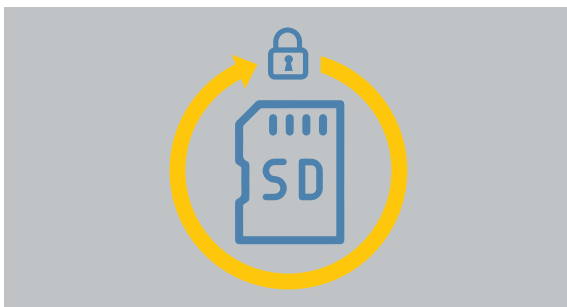

PLC for cybersecure applications

Based on industrial automation standard ANSI ISA 62443, its built-in security features ensure a secure connection to the Internet and Cloud, all while encrypting the transfer and storage of data. Furthermore, it relies on modern role-based user management.
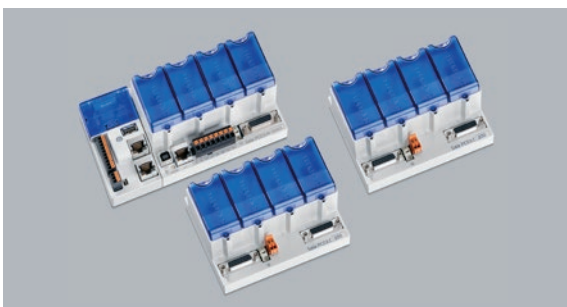

Multi-protocol support in one PLC controller

Easy and seamless system integration of up to 14 communication interfaces. Users have full freedom to combine various protocols via IP and serial ports – such as OPC-UA, MQTT, HTTPS, NTP, Modbus, CAN and Profinet. Users can also integrate custom specific protocols by the application program.

Encryption keeps your data safe

Supports Micro SD cards up to 32GB, providing large storage for user data such as trend logs, alarm and event history, as well as any other information generated during operation. The encrypted file system protects the data against unauthorised access.

Compatible with PCD3 I/O system

Full compatibility to proofed and well-introduced PCD3 I/O system provides a robust and reliable operation. Existing installations can easily be upgraded to new functions by the IEC-Controller.

« The combination of modern PLC high-level language programming and state-of-the-art cybersecurity makes the PCD3.M6893 into a universal controller for critical applications and infrastructures. »

Oliver Greune
Offering Manager

General technical data

1 GByte RAM and 4 GByte Flash for operating system and user program
1 × Socket for user data micro-SD card, max. 32 GByte
2 × Ethernet
1 × RS-485
1 × Socket for PCD7.F1xxS communication modules
1 × CAN galvanic separated
1 × USB Device port for programming and service
1 × USB host
2 × Interrupt inputs
1 × Watch dog relay
Extendable up to 1023 I/O

Order details

Typ	Short description
PCD3.M6893	PLC base unit with 4 x I/O plugin slots and I/O extension connector

General information

Not all mentioned features are part of the first release. Agile quarterly upgrades will deliver new implementations based on market needs. Please contact your sales representative for further information.

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