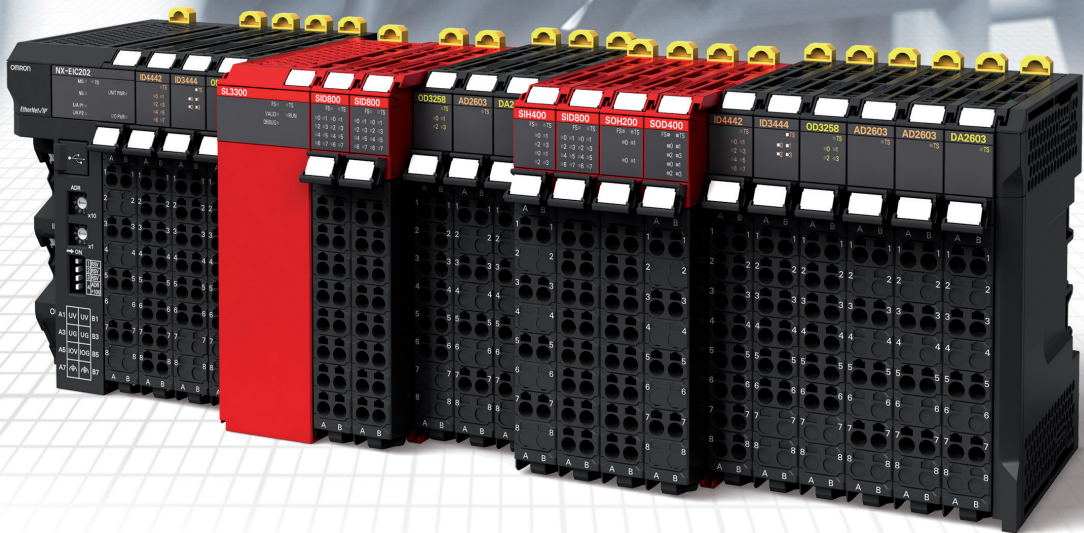# OMRON

Safety Controller Solutions
NX Safety Stand-alone Control
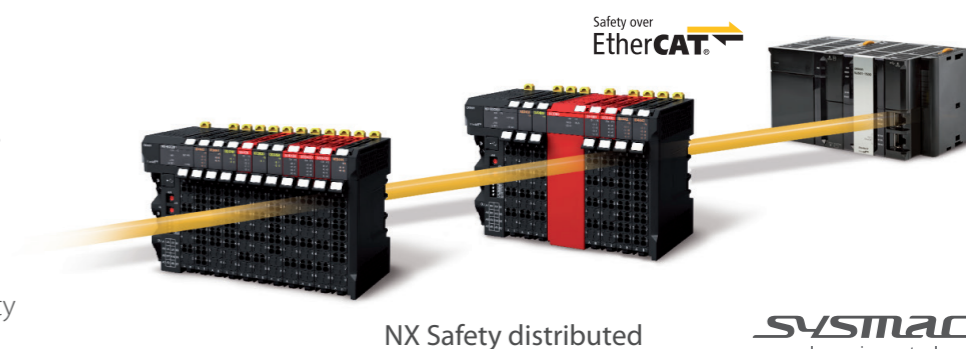
Expandable Safety Solution
Safety and Standard Controller - Integrated
EtherNet/IP connectivity

sysmac
always in control

NX Safety Stand-alone Control

The NX stand-alone safety controller is a powerful and robust Safety System that reaches the PLe standard according to EN 13849-1 and SIL3 according to IEC 61508. The system is configured and programmed with the Sysmac Studio software suite, and includes configuration, programming, simulation and monitoring functions for all safety sensors and actuators. This new Safety System allows up to 63 slices to be connected, with the user free to choose between safety or standard inputs and outputs and between digital and analogue, according to your needs. The safety controller provides a large program capacity and Automatic Configuration Recovery functionality, simplify the engineering, commissioning and maintenance tasks.
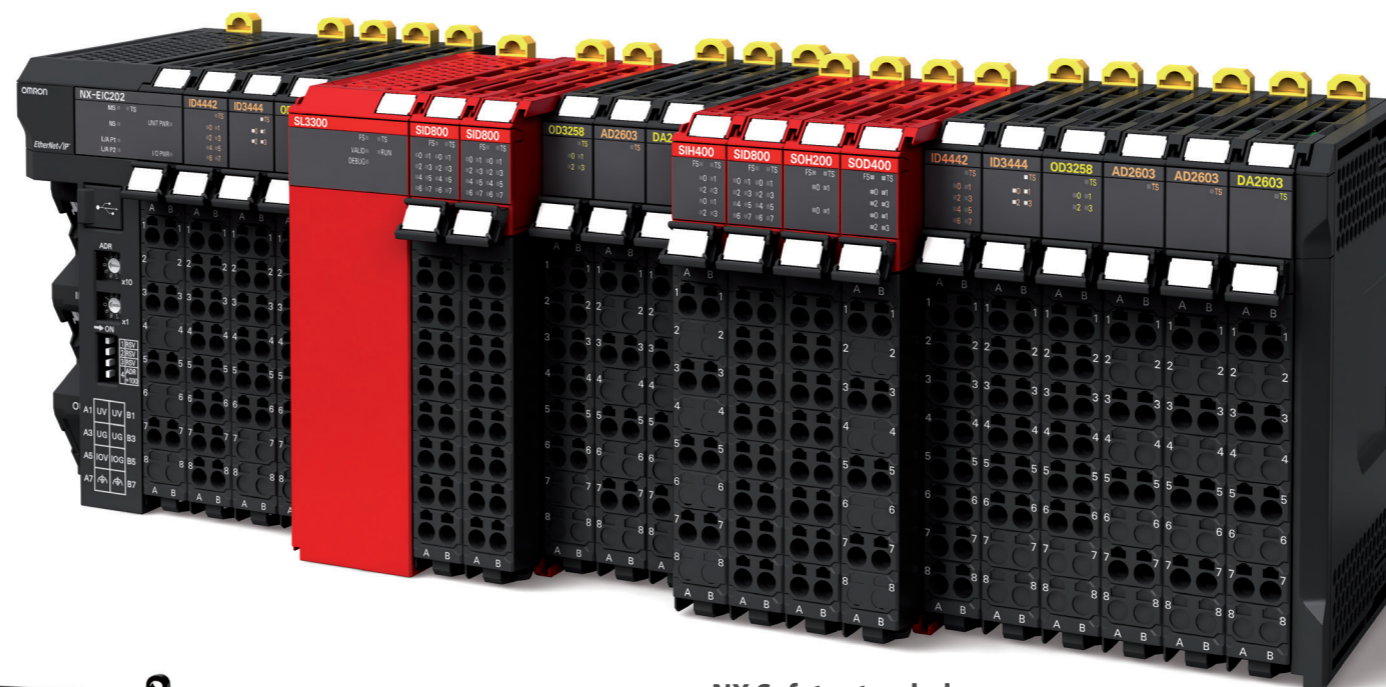
Integrated Safety
- Up to 128 safety slices
- Up to 1024 safety I/O signals
- Safety and standard digital/analog slices can be combined
- 2 Mb safety program capacity

NX Safety distributed

EtherNet/IP

Modular Safety
- **Up to 63 safety/standard slices**
- **Max. 32 safety slices**
- **Up to 256 safety I/O signals**
- **Safety and standard digital/analog slices can be combined**
- **512 KB safety program capacity**

ISO 13849-1, PLe

IEC 61508, SIL3

NX Safety stand-alone

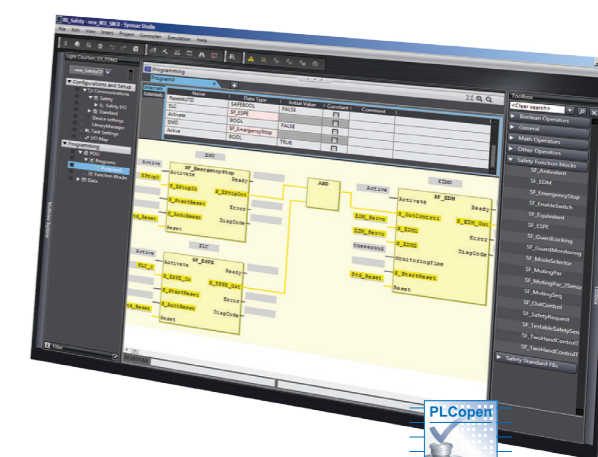## Compact Safety
- Up to 28 safety I/O signals

G9SP

Safety Relay

G9SR

Sysmac Studio

The new NX Safety stand-alone uses the Sysmac Studio Software Tool. The Safety Logic Editor offers a set of 46 Safety Function blocks as standard, allowing complex connections while the program simplicity is maintained. You can reuse or import/export the safety program code from/to other projects easily.

The Sysmac Studio software tool integrates configuration, programming, simulation and monitoring functionality. The Sysmac Studio software tool is compliant to the IEC 61131-3 standard and utilises PLCopen Safety function blocks.

Sysmac Studio

Omron Safety Solution

OMRON

Sensors
E-Stops, S-Sensors, S-Switches,
S-Enabling, S-Light Curtains,
S-Scanner

Controllers
S-Relay, S-Compact,
S-Modular, S-Integrated

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Servos, Inverters

Would you like to know more?

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CD_EN_01+Safety_Controller_Solutions+Brochure