

## Safety CPU Unit

# NX-SL3□□□

## The simplest way to integrate safety into ultra-high-speed machine automation - Bring safety to your production site

- Automatic generation, from safety programs through to safety functional test reports
- Integrated safety over EtherCAT® for high-speed, high-precision fieldbus communication in a machine
- Easy to set up safety functions for motion devices that are the key to quality and productivity enhancement



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

## Features

- Meets EN ISO 13849-1 (PLe/Category 4) and IEC 61508 (SIL3)
  - Safety over EtherCAT (FSOE) \* allows standard devices and safety devices to be mixed on the same EtherCAT® network
  - A stand-alone system can be built by combining the NX-SL3300 Safety CPU Unit with the NX-EIC202 EtherNet/IP Coupler Unit
  - Safety program POU's in IEC 61131-3 compliant Automation Software Sysmac Studio make programming more efficient and design assets reusable
  - PLCopen® Function Blocks for Safety reduce time and cost to learn safety design
  - Design functions minimize safety design errors: visual setting of I/O, automatic generating wiring diagram, safety programming, and automatic conversion of programs into user-defined Function Blocks
  - Verification functions ensure and maintain safety during machine commissioning and operation: Simple Automatic Test using Offline Simulation, Safety Validation when safety application data is saved in memory, and Online Functional Test
- \* Safety over EtherCAT (FSOE): The open protocol Safety over EtherCAT (abbreviated with FSOE "FailSafe over EtherCAT") defines a safety related communication layer for EtherCAT®. Safety over EtherCAT meets the requirements of IEC 61508 SIL 3 and enables the transfer of safe and standard information on the same communication system without limitations with regard to transfer speed and cycle time.



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NX-SL3□□□

Ordering Information

Safety CPU Unit NX-SL3□□□

Unit type	Appearance	Specifications				Unit version	Model
		Maximum number of safety I/O points	Program capacity	Number of safety I/O connections	I/O refreshing method		
Safety CPU Unit (NX-SL3□□□)		256 points	512KB	32	Free-Run refreshing	Ver. 1.1	<b>NX-SL3300</b>
		1024 points	2048KB	128	Free-Run refreshing	Ver. 1.1	<b>NX-SL3500</b>

Accessories

Not included.

Automation Software Sysmac Studio

The Sysmac Studio is the software that provides an integrated environment for setting, programming, debugging and maintenance of machine automation controllers including the NJ/NX-series CPU Units, NY-series Industrial PC, EtherCAT Slave, and the HMI.

For details, refer to your local OMRON website and *Sysmac Studio Catalog* (Cat. No. P138).

## Regulations and Standards

### Safety CPU Units NX-SL3□□□

Certification body	Standards
TÜV Rheinland	<ul style="list-style-type: none"> <li>• EN ISO 13849-1</li> <li>• EN ISO 13849-2</li> <li>• IEC 61508 parts 1-7</li> <li>• IEC/EN 61131-2</li> <li>• IEC 61326-3-1</li> </ul>
UL	<ul style="list-style-type: none"> <li>• NRAG (UL 508 and ANSI/ISA 12.12.01)</li> <li>• NRAG7 (CSA C22.2 No. 142 and CSA C22.2 No. 213)</li> </ul>
Shipbuilding Standards	NK, LK

The NX-series Safety CPU Units allow you to build a safety control system that meets the following standards:







- Requirements for SIL 3 (Safety Integrity Level 3) in IEC 61508
- Requirements for PLe (Performance Level e) and category 4 in EN ISO13849-1

The NX-series Safety CPU Units are also registered for RCM, EAC, and KC compliance.

## General Specifications

Item		Specification
Enclosure		Mounted in a panel (open)
Grounding method		Ground to 100 $\Omega$ or less.
Operating environment	Ambient operating temperature	0 to 55°C (The upper limit of the ambient operating temperature is restricted by the installation orientation.)
	Ambient operating humidity	10% to 95% (with no condensation or icing)
	Atmosphere	Must be free from corrosive gases.
	Ambient storage temperature	–25 to 70°C (with no condensation or icing)
	Altitude	2,000 m max.
	Pollution degree	2 or less.
	Noise immunity	Conforms to IEC 61131-2. 2 kV on power supply line (Conforms to IEC 61000-4-4.)
	Insulation class	Class III (SELV)
	Overvoltage category	II
	EMC immunity level	Zone B
	Vibration resistance	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s <sup>2</sup> , 100 minutes each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)
	Shock resistance	Conforms to IEC 60068-2-27. 147 m/s <sup>2</sup> , 3 times each in X, Y, and Z directions
Installation method		DIN Track (IEC 60715 TH35-7.5/TH35-15)

## Unit Specifications

Unit name	Safety CPU Unit	
Model	NX-SL3300	NX-SL3500
Maximum number of safety I/O points	256 points	1024 points
Program capacity	512 KB	2048 KB
Number of safety I/O connections	32	128
Number of FSoE master connections	32	128
I/O refreshing method	Free-Run refreshing	
External connection terminals	None	
Indicators	<div> <div> <b>SL3300</b> <div> FS  TS  VALID  RUN  DEBUG  </div> </div> <div> <b>SL3500</b> <div> FS  TS  VALID  RUN  DEBUG  </div> </div> </div>	
Dimensions	30 × 100 × 71 mm (W × H × D)	
I/O power supply method	Not supplied.	
Current capacity of I/O power supply terminals	No I/O power supply terminals	
NX Unit power consumption *1	<ul style="list-style-type: none"> <li>Connected to a CPU Unit *2 1.25 W max.</li> <li>Connected to a Communications Coupler Unit 0.90 W max.</li> </ul>	
Current consumption from I/O power supply	No consumption	
Weight	75 g max.	
Installation orientation and restrictions	<p>Installation orientation:</p> <ul style="list-style-type: none"> <li>Connected to a CPU Unit *2 Possible in the upright installation orientation.</li> <li>Connected to a Communications Coupler Unit *3 Six possible orientations.</li> </ul> <p>Restriction: None</p>	

\*1 The cable length for the Units that supply power to the corresponding Unit must be up to 20 m.

\*2 The NX102 CPU Unit and NX502 CPU Unit can be connected.

\*3 The NX-SL3300 can be connected to the NX-ECC20□ EtherCAT Coupler Unit and NX-EIC202 EtherNet/IP Coupler Unit. The NX-SL3500 can be connected to the NX-ECC20□ EtherCAT Coupler Unit.

## Combinations of CPU Unit, Communications Unit, and Software

The following table shows the NX-series CPU Unit, Communications Units, and Sysmac Studio editions that can be used with the NX-SL3□□□ Safety CPU Units.

CPU Unit and Communications Unit	NJ/NX Series CPU Unit *1	Communications Unit		
	NX102 CPU Unit NX502 CPU Unit	EtherCAT Coupler Unit NX-ECC20□	EtherNet/IP Coupler Unit NX-EIC202	Communication Control Unit NX-CSG320
Edition of Sysmac Studio *2	Standard Edition	Standard Edition	Standard Edition Sysmac Studio Safety Edition	Standard Edition Sysmac Studio Safety Edition
NX-SL3300	YES	YES	YES	No
NX-SL3500	YES	YES	No	No

\*1 The NX-SL3□□□ Safety CPU Unit cannot be connected directly to the NJ/NX1P/NX7 CPU Unit. The NX-ECC20□ EtherCAT Coupler Unit is required to connect a system using these CPU Units.

\*2 Refer to *Version Information* for the possible combinations of versions of Units and Sysmac Studio. The NX-I/O Edition can be used for configuration of a stand-alone safety control system using the EtherNet/IP Coupler Unit and NX-SL3300 Safety CPU Unit.

## Version Information

The following table shows the possible combinations of versions of NX-series Safety Control Units, CPU Units, Communications Coupler Units, and Sysmac Studio. Available functions that are related to safety control vary depending on the versions of the units and Sysmac Studio. Refer to the *NX-series Safety Control Unit User's Manual* (Cat. No. Z930) for details.

NX-SL3□□□ version 1.1 can be connected to the following versions of the CPU Unit:

- NX102 CPU Unit version 1.30 or later and Sysmac Studio version 1.22 or higher
- NX502 CPU Unit version 1.60 or later and Sysmac Studio version 1.54 or higher

### Combinations of versions

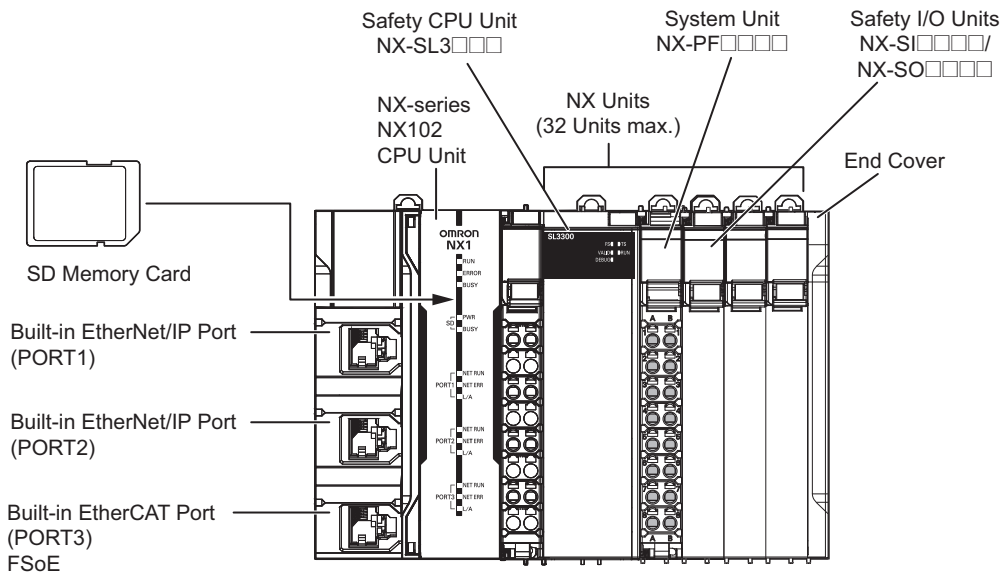
Safety Control Unit model and version		NX bus master: NX102 CPU Unit		NX bus master: NX502 CPU Unit		NX bus master: EtherCAT Coupler Unit			NX bus master: EtherNet/IP Coupler Unit	
Model	Unit version	NX102-□□□□	Sysmac Studio	NX502-□□□□	Sysmac Studio	Communications Coupler Unit NX-ECC20□	NJ/NX1P/NX7 CPU Unit *1	Sysmac Studio	Communications Coupler Unit NX-EIC202	Sysmac Studio
NX-SL3300	Ver.1.0	Ver.1.30 or later	Ver.1.22 or higher	Ver.1.60 or later	Ver.1.54 or higher	Ver.1.1 or later	Ver.1.06 or later	Ver.1.07 or higher	---	---
	Ver.1.1							Ver.1.10 or higher	Ver.1.0 or later	Ver.1.10 or higher
NX-SL3500	Ver.1.0	Ver.1.30 or later	Ver.1.22 or higher	Ver.1.60 or later	Ver.1.54 or higher	Ver.1.2 or later	Ver.1.07 or later	Ver.1.08 or higher	---	---
	Ver.1.1							Ver.1.10 or higher		
NX-SIH400	Ver.1.0	Ver.1.30 or later	Ver.1.22 or higher	Ver.1.60 or later	Ver.1.54 or higher	Ver.1.2 or later	Ver.1.06 or later	Ver.1.07 or higher	---	---
	Ver.1.1							Ver.1.10 or higher	Ver.1.0 or later	Ver.1.10 or higher
NX-SID800	Ver.1.0	Ver.1.30 or later	Ver.1.22 or higher	Ver.1.60 or later	Ver.1.54 or higher	Ver.1.1 or later	Ver.1.06 or later	Ver.1.07 or higher	Ver.1.0 or later	Ver.1.10 or higher
NX-SOH200	Ver.1.0	Ver.1.30 or later	Ver.1.22 or higher	Ver.1.60 or later	Ver.1.54 or higher	Ver.1.1 or later	Ver.1.06 or later	Ver.1.07 or higher	Ver.1.0 or later	Ver.1.10 or higher
NX-SOD400	Ver.1.0	Ver.1.30 or later	Ver.1.22 or higher	Ver.1.60 or later	Ver.1.54 or higher	Ver.1.1 or later	Ver.1.06 or later	Ver.1.07 or higher	Ver.1.0 or later	Ver.1.10 or higher

\*1 This is version information when the NJ/NX1P/NX7 CPU Unit is used as the EtherCAT master in the system. The Safety Control Unit cannot be connected directly to these CPU Units.

NX Unit Configuration

CPU Rack (Using NX102 CPU Unit)

The CPU Rack consists of an NX-series NX102 CPU Unit, NX Units, and an End Cover.  
Up to 32 NX Units can be connected.

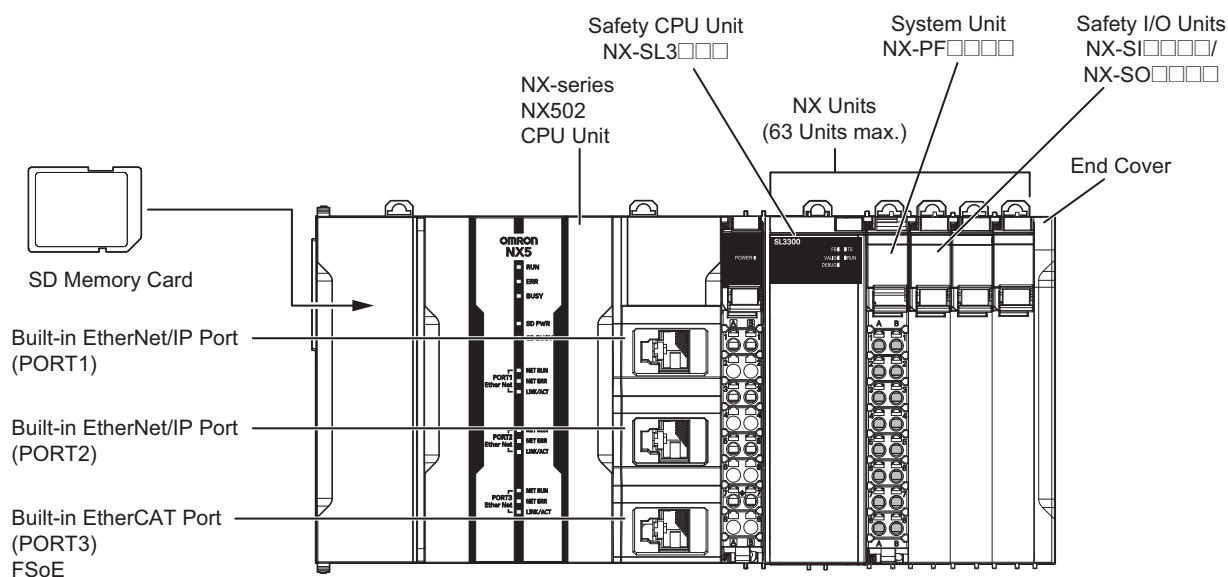


Up to 32 Units can be mounted to each CPU Rack.  
For restrictions of the NX unit, refer to *NX-series NX102 CPU Unit Hardware User's Manual* (Cat. No. W593).

Series	Configuration	Remarks
NX-series	NX-series NX102 CPU Unit	One required for every CPU Rack. Up to 32 Units can be mounted to each CPU Rack. For restrictions of the NX unit, refer to <i>NX-series NX102 CPU Unit Hardware User's Manual</i> (Cat. No. W593).
	End Cover	Must be connected to the right end of the CPU Rack. One End Cover is provided with the CPU Unit.
	Safety Control Units	This is a programmable safety controller which supports IEC 61131-3 and PLCopen® TC5 Safety. This unit consists of safety CPU unit and safety I/O unit.
	Safety CPU Unit NX-SL3□□□	This Unit has safety control functions. It operates as an NX Unit. It also operates as an FSoE master.
	Safety I/O Units	These Units have safety input functions or safety output functions. They operate as NX Units. These Units operate as FSoE slaves.
	Safety Input Unit	These Units have safety input functions.
	Safety Output Unit	These Units have safety output functions.
	System Unit	When the I/O power supply for the NX Unit connected to the CPU Unit is supplied through the NX bus, the IO power supply unit (NX-PF) must be used as well.
	Other NX units	For the latest lineup of NX units, refer to our catalog and our website, or inquire of our local representative.
NJ/NX-series	SD Memory Card	Install as required.

## CPU Rack (Using NX502 CPU Unit)

The CPU Rack consists of an NX-series NX502 CPU Unit, NX Units, and an End Cover.  
Up to 63 NX Units can be connected.

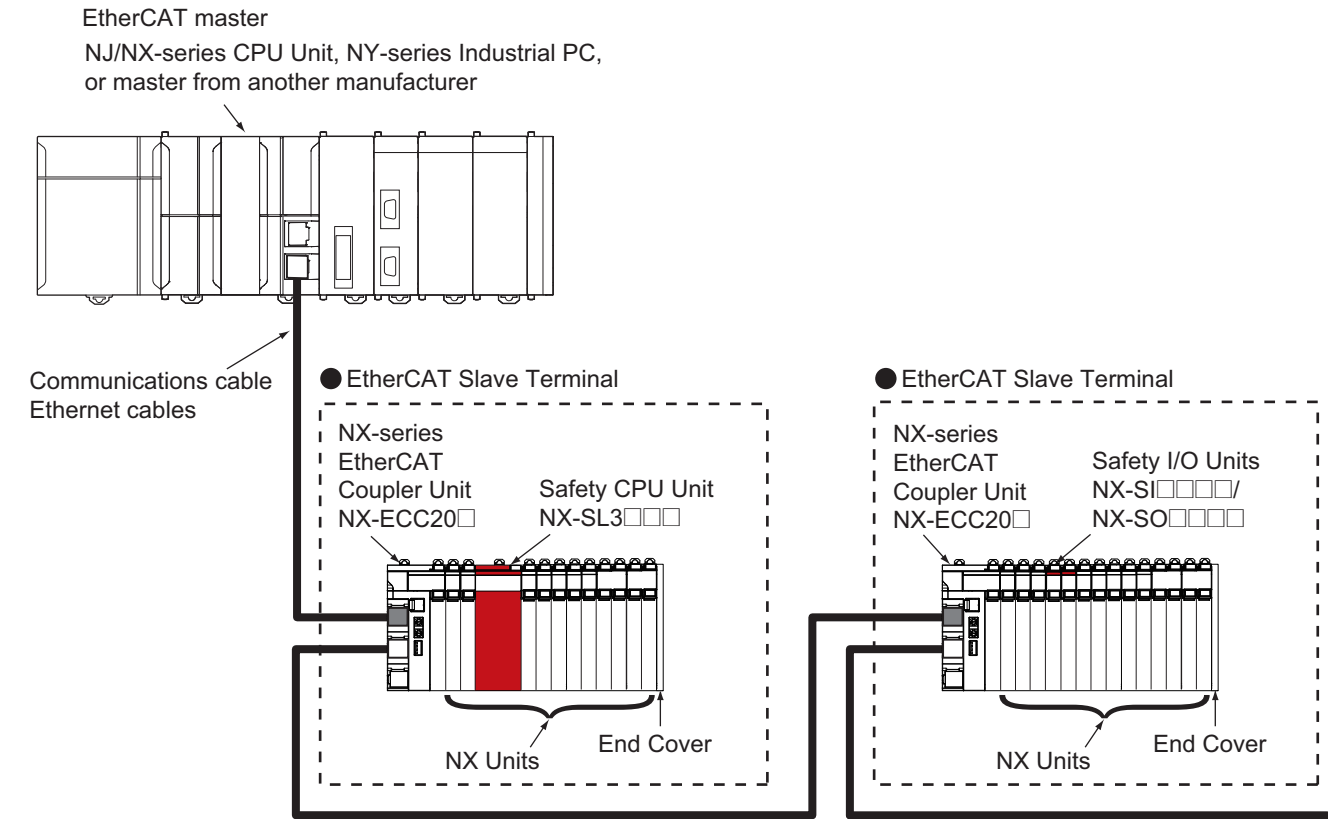


For restrictions of the NX unit, refer to *NX-series NX502 CPU Unit Hardware User's Manual* (Cat. No. W629).

Series	Configuration	Remarks
NX-series	NX-series NX502 CPU Unit	One required for every CPU Rack. Up to 63 Units can be mounted to each CPU Rack. For restrictions of the NX unit, refer to <i>NX-series NX502 CPU Unit Hardware User's Manual</i> (Cat. No. W629).
	End Cover	Must be connected to the right end of the CPU Rack. One End Cover is provided with the CPU Unit.
	Safety Control Units	This is a programmable safety controller which supports IEC 61131-3 and PLCopen® TC5 Safety. This unit consists of safety CPU unit and safety I/O unit.
	Safety CPU Unit NX-SL3□□□	This Unit has safety control functions. It operates as an NX Unit. It also operates as an FSoE master.
	Safety I/O Units	These Units have safety input functions or safety output functions. They operate as NX Units. These Units operate as FSoE slaves.
	Safety Input Unit	These Units have safety input functions.
	Safety Output Unit	These Units have safety output functions.
NJ/NX-series	System Unit	When the I/O power supply for the NX Unit connected to the CPU Unit is supplied through the NX bus, the IO power supply unit (NX-PF) must be used as well.
	Other NX units	For the latest lineup of NX units, refer to our catalog and our website, or inquire of our local representative.
NJ/NX-series	SD Memory Card	Install as required.

EtherCAT slave terminal

The EtherCAT slave terminal consists of NX-ECC EtherCAT coupler unit, component units of the NX unit, and end cover.  
Up to 63 NX Units can be connected.



For restrictions of the NX unit, refer to *NX-series EtherCAT® Coupler Unit User's Manual* (Cat. No. W519).

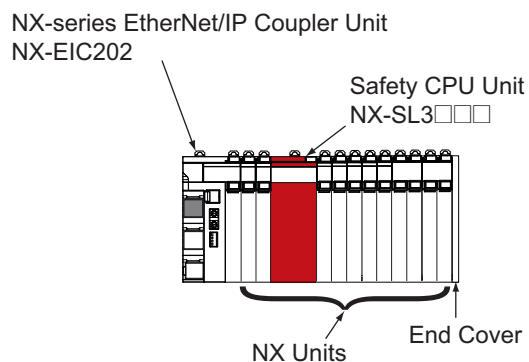
Series	Configuration	Remarks
NJ/NX-series	EtherCAT master	The EtherCAT master manages the EtherCAT network, monitors the status of the slaves, and exchanges I/O data with the slaves.
NX-series	NX-series EtherCAT Coupler Unit NX-ECC□□□	The EtherCAT Coupler Unit is an interface that performs process data communications between a group of NX Units and the EtherCAT master over an EtherCAT network. The I/O data for the NX Units is first accumulated in the EtherCAT Coupler Unit and then all of the data is exchanged with the EtherCAT master at the same time. The EtherCAT Coupler Unit can also perform message communications (SDO communications) with the EtherCAT master. You can connect up to 63 NX Units.
	End Cover	This is required on the right end of the EtherCAT slave terminal. One cover comes with each coupler unit by default.
	NX Units	The NX Units perform I/O processing with connected external devices. The NX Units perform process data communications with the EtherCAT master through the EtherCAT Coupler Unit.
	System Unit	System Units are used as required to build a Slave Terminal.
	Safety Control Units	The Safety Control Units constitute a programmable safety controller that complies with IEC 61131-3 and PLCopen® TC5 Safety. They include Safety CPU Units and Safety I/O Units.
	Safety CPU Unit NX-SL3□□□	This Unit controls the Safety I/O Units through the NX bus and EtherCAT.
	Safety I/O Units	Safety CPU unit control this units through the NX bus and EtherCAT.
	Other NX units	For types of NX units, refer to <i>NX-series EtherCAT® Coupler Unit User's Manual</i> (Cat. No. W519). For details of units, refer to the User's Manual of each unit. For the latest lineup of NX units, refer to our catalog and our website, or inquire of our local representative.



## Stand-alone Safety Control System

The stand-alone safety control system consists of an NX-EIC EtherNet/IP Coupler Unit, an NX-SL3300 Safety CPU Unit, NX Units, and an End Cover.

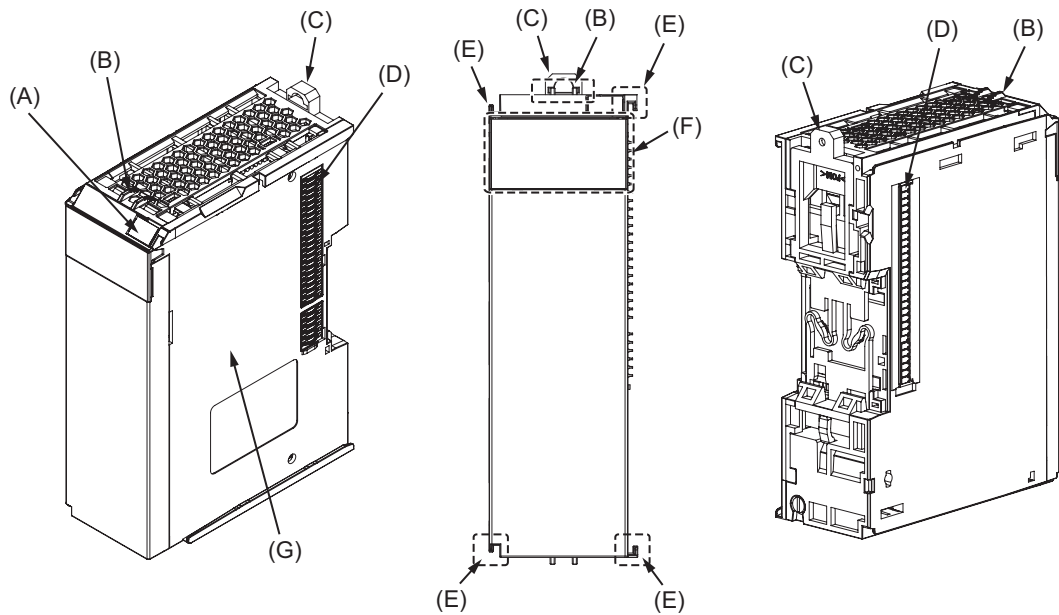
Up to 63 safety and standard I/O units can be connected, including up to 32 NX-series Safety I/O Units to a maximum of 256 safety I/O signals.



Refer to the *NX-series Safety Control Unit User's Manual* (Cat. No. Z930) for details on the stand-alone safety control system configuration.

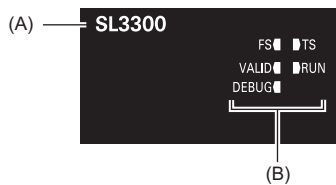
Part Names and Functions

Safety CPU Unit NX-SL3300/SL3500



Letter	Item	Specification
(A)	Marker attachment locations	The locations where markers are attached. The markers made by OMRON are installed for the factory setting. Commercially available markers can also be installed.
(B)	Protrusions for removing the Unit	The protrusions to hold when removing the Unit.
(C)	DIN Track mounting hooks	These hooks are used to mount the NX Unit to a DIN Track.
(D)	NX bus connector	This is the NX-series bus connector. It is used to connect an NX-series Safety I/O Unit or other NX Unit.
(E)	Unit hookup guides	These guides are used to connect two Units.
(F)	Indicators	The indicators show the current operating status of the NX Unit or signal I/O status.
(G)	Unit specifications	The specifications of the NX Unit are given here.

Indicators



Letter	Name	Function
(A)	Model number display	Displays part of the model number of the Safety CPU Unit.
(B)	Indicators	The indicators show the current operating status and communications status of the Safety CPU Unit.

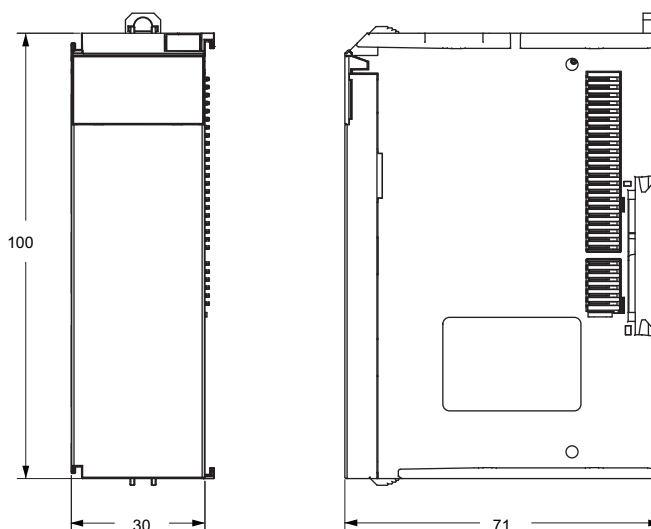
Indicator specifications

[TS] LED	The TS indicator shows the current operating status and communications status of the Safety CPU Unit.
[FS] LED	The FS indicator shows the safety communications status and safety function status of the Safety CPU Unit.
[RUN] LED	The RUN indicator shows the execution status of the safety programs.
[DEBUG] LED	The DEBUG indicator shows the status whether the debug function is executable on Safety CPU Unit.
[VALID] LED	The VALID indicator shows whether safety validation has been performed.

## Dimensions

(Unit/mm)

Safety CPU Unit NX-SL3300/SL3500



## Related Manuals

Cat. No.	Model number	Manual name	Application	Description
Z930	NX-SL□□□□ NX-SI□□□□ NX-SO□□□□	NX-series Safety Control Unit User's Manual	Learning how to use NX-series Safety Control Units.	Describes the hardware, setup methods, and functions of the NX-series Safety Control Units.
Z931	NX-SL□□□□	NX-series Safety Control Unit Instructions Reference Manual	Learning about the specifications of instructions for the Safety CPU Unit.	Describes the instructions for the Safety CPU Unit. When programming, use this manual together with the <i>NX-series Safety Control Units User's Manual</i> (Cat. No. Z930).

## Safety Precautions

Be sure to read the *Common Precautions for Safety Warning* at the following URL: <http://www.ia.omron.com/>.  
Be sure to read the following user's manual for other details required for correct use of the Safety CPU Unit.

# Terms and Conditions Agreement

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NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

## **Programmable Products.**

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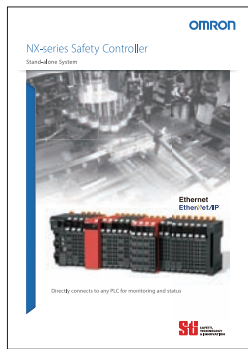
## **Change in Specifications.**

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

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# OMRON's Products Support IoT for Control Panels and Production Lines



NX-series Safety Controller  
stand-alone System  
Brochure

Cat. No. F100



NX-series Safety Controller  
EtherCAT System Brochure

Cat. No. F101



Safety I/O Unit  
NX-SI/SO Datasheet

Cat. No. F123



NX1 Machine  
Automation Controller  
Brochure

Cat. No. P129



NX1 Machine  
Automation Controller  
Datasheet

Cat. No. P130

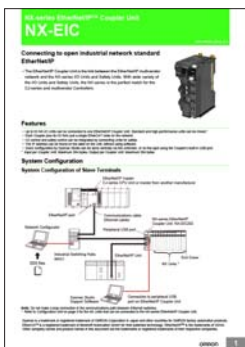


NX-series  
I/O System Brochure

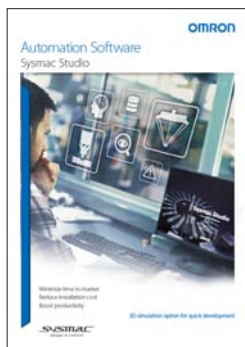
Cat. No. R183



NX-series EtherCAT  
Coupler Unit Controller  
NX-ECC Datasheet



NX-series  
EtherNet/IP™ Coupler Unit  
NX-EIC Datasheet



Automation Software  
Sysmac Studio Brochure

Cat. No. P138



Automation Software  
Sysmac Studio Ver.1.00  
Datasheet

**Note: Do not use this document to operate the Unit.**

**OMRON Corporation Industrial Automation Company**

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**Contact : [www.ia.omron.com](http://www.ia.omron.com)**

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