FA Integrated Tool Package CX-One CX-Designer Ver.3

Intuitive operability will increase programming efficiency from screen data creation to debugging for NS series.

CX-Designer is the programming software for debugging and creating screen data for NS series including NS, NSJ and NS-Runtime.

Note: The CX-Designer is included in the CX-One FA Integrated Tool Package.





Features

- User interface same as the CX-Programmer
- Symbol table created on the CX-Programmer can be taken into the CX-Designer (Drag and drop).
- Screen data and parts used in other projects can be reused by drag and drop.
- CAD file (DXF file) used for mechanical design can be used as graphic data on the CX-Designer.
- Integrated simulation with PLC ladder program will enhance debugging efficiency.

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Ordering Information

Software

How to Select Required Support Software for Your Controller

The required Support Software depends on the Controller to connect. Please check the following table when purchasing the Support Software.

Item	Omron PLC System	Omron Machine Automation Controller System	
Controller	CS, CJ, CP, and other series	NJ-series	
Programmable Terminals NS-series NS-series with an Ethernet port		NS-series with an Ethernet port	
Software	FA Integrated Tool Package CX-One	Automation Software Sysmac Studio	

• FA Integrated Tool Package CX-One

	Specifications				
Product name		Number of licenses	Media	Model	Standards
FA Integrated Tool Package CX-One Ver.4.⊡	The CX-One is a package that integrates the Support Software for OMRON PLCs and components. CX-One runs on the following OS. Windows XP (Service Pack 3 or higher), Vista or 7 Note: Except for Windows XP 64-bit version. CX-One Ver.4.□ includes CX-Designer Ver.3.□. For details, refer to the CX-One catalog (Cat. No. R134).	1 license *1	DVD *2	CXONE-AL01D-V4	-

*1. Multi licenses are available for the CX-One (3, 10, 30, or 50 licenses).

***2.** The CX-One is also available on CD (CXONE-AL C-V4).

• Automation Software Sysmac Studio

Please purchase a DVD and required number of licenses the first time you purchase the Sysmac Studio. DVDs and licenses are available individually. Each model of licenses does not include any DVD.

	Specifications				
Product name		Number of licenses	Media	Model	Standards
env SY Au Sysmac Studio Sy:	dard Edition Windows XP (Service Pack 3 or higher), Vista, or 7	– (Media only)	DVD	SYSMAC-SE200D	_
Ver.1.		1 license *	_	SYSMAC-SE201L	-

Note: To connect the NJ5 Controller, NS system version 8.5 or higher is required. CX-Designer version 3.3 or higher is also required. To connect the NJ3 Controller, NS system version 8.61 or higher is required. CX-Designer version 3.4 or higher is also required.
* Multi licenses are available for the Sysmac Studio (3, 10, 30, or 50 licenses).

Product Configuration

FA Integrated Tool Package CX-One

Components	Details	
Introduction	A4 size, English/Japanese	
	(CD) CD 4 pieces in the case (DVD) DVD 1 piece in the case	
	Product Registration Guide, Japanese User license agreement/User registration card, English/Japanese	

Automation Software Sysmac Studio DVD (SYSMAC-SE200D)

Components	Details		
Introduction	An introduction about components, installation/ uninstallation, user registration and auto update of the Sysmac Studio is provided.		
Setup disk (DVD-ROM)	1		

License (SYSMAC-SE2 L)

Components	Details		
Introduction	An introduction about components, installation/ uninstallation, user registration and auto update of the Sysmac Studio is provided.		
License certificate	A model number, version, license number, and number of licenses are described.		
User registration card	Two cards are contained. One is for users in Japan and the other is for users in other countries.		

Main Functions

	Category		Function			
Programming	Screen		4000 screens max. (Basic screen + popup window)			
	Sheet		Screen to be displayed on the basic screen or popup window. Number of sheet: 32 max.			
	Object	Fixed Object	Rectangle, Circle/Oval, Straight Line, Polyline, Polygon, Sector, Arc			
		Functional object	ON/OFF Button, Word Button, Command Button, Bit Lamp, Word Lamp, Multifunction, Label, Numeral Display & Input String Display & Input, List Selection, Thumbwheel Switch, Analog Meter, Level Meter, Broken-line Graph Bitmap, Video Display, Alarm/event Display, Date, Time, Temporary Input, Data Log Graph, Data Block Table Consecutive Line Drawing, Contents Display, Document Display (NS-Runtime only).			
	Frame		Parts with which page can be switched independently on the screen. Page 1 to 256 can be created and switched.			
	Table		Object that can group multiple functional objects in one table. (1 to 30 rows x 1 to 40 columns, 256 functional objects max.)			
	Common Setting		Settings commonly made for functional objects. Alarm/Event setting, Data Log Setting, Broken-line Graph Group Setting, Data Block Setting, String Table Setting, Password, Unit/Scale, Dialog Setting, Symbol Table Setting			
	Macro		Function to execute user-defined program.			
Edit	Group		Groups more than one functional or fixed object to create a single object.			
	Order		Brings the currently selected object to the front or back.			
	Align/Distribute	•	Aligns the currently selected objects. / Distributes the currently selected objects equidistant.			
	Make Same Size		Aligns the size of currently selected objects.			
	Nudge		Moves the selected object one dot or one grid unit.			
	Rotate/Flip		Rotates the currently selected object. / Flips the currently selected object.			
	Select (All Objects/Same Type Objects)		Selects all objects on the screen. /Selects all objects of the same type as the currently selected object.			
	Repeat		Makes multiple copies of the selected objects.			
	Edit Properties		Displays a list of functional objects on screen to enable changing property settings.			
Find/Replace	Find		Searches for address or character string.			
	Replace		Replaces the specified addresses with other addresses.			
	Address Cross Reference		Finds locations where an address is used and lists the results.			
	Macro Cross Reference		Lists macro locations (functional objects and screens).			
	Replace Host		Replaces the host for all addresses in the project.			
View Window Project Workspace		ace	Displays screen data and settings in a tree-structured view.			
	Symbol Table		Displays a list of registered symbols. Find or Replace function can be used.			
	Property List		Displays the property of selected object.			
	Library		User-defined objects can be registered as a library object.			
	Select Object		Displays a list of objects on the screen.			
	Address in Use List		Displays a list of the number of times each address is used in functional objects. It is poss to jump to the selected parts.			
	Output Window		Displays various data such as CX-Designer search, data check, and other processing results and error details.			
Debug	Test Function		List of address for functional objects on the screen is displayed to change the values or monitor the values of each address.			
	Integrated Simulation for Entire PT-PLC System		CX-Programmer can be debugged on a personal computer together with screen data o CX-Designer, using CX-Simulator.			
Transfer	Quick Transfer		Only the changed data can be downloaded automatically.			
Transfer			Uploads screen data from the NS, or downloads the selected project to the NS.			
Print			Prints the created screen data. Output type can be selected from Printer/File/Image file.			
Others	Resource Repo	rt	Displays a report on the resources that have been used.			
	Validation		Checks all screen data in the project according to validation settings to see if any mistakes have been made.			
	Conversion		Changes the system version or the model of the NS-series PT of the project currently being edited.			

System Requirements

FA Integrated Tool Package CX-One

The system requirements are the same as those for the CX-One. For details, refer to the FA Integrated Tool Package CX-One Datasheet.

Automation Software Sysmac Studio

The system requirements are the same as those for the Sysmac Studio. For details, refer to the Automation Software Sysmac Studio Datasheet.

Applicable Models

Series	Model
	NS5-MQ1□(B)-V2 NS5-SQ1□(B)-V2 NS5-TQ1□(B)-V2
NS-series	NS8-TV0□(B)-V2
	NS10-TV0□(B)-V2
	NS12-TS0□(B)-V2
	NS15-TX01□-V2
	NSJ5-SQ1□(B)-M3D/-G5D NSJ5-TQ1□(B)-M3D/-G5D
NSJ-series	NSJ8-TV0□(B)-M3D/-G5D
(Integrated Controller Models)	NSJ10-TV0□(B)-G5D
	NSJ12-TS0□(B)-G5D
NSH-series (Hand-held Models)	NSH5-SQ□10B-V2
NS-Runtime (Machine Monitoring Software NS-Runtime)	NS-NSRCL1/3/10

Related Manuals

Man.No	Model	Manual name
W504	SYSMAC-SE200D	Sysmac Studio Version 1 OPERATION MANUAL
W463	CXONE-AL C-V4/AL D-V4	CX-One Setup Manual
V099	NS-CXDC1-V3	CX-Designer Version3. USER'S MANUAL
V082	NS	NS-Series Ladder Monitor OPERATION MANUAL (Ladder Monitor I/O Comment Extracting Tool)

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

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At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

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- · Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- · Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

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 model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

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Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

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In the interest of product improvement, specifications are subject to change without notice.

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