FA Integrated Tool Package CX-One CX-Simulator Ver.2

Increase Development and Debugging Efficiency with Various Debugging Tools, Including Functions That Are Not Possible on the Actual PLC

 Application software to simulate SYSMAC CS/CJ/CP/NSJseries CPU Unit operation on the computer to debug PLC programs without a CPU Unit.

Note: 1. The CX-Simulator is included in the CX-One FA Integrated Tool Package.

It can not be purchased separately. 2. NSJ-series is no longer available to order.

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Features

- Apply virtual external inputs to a virtual CPU Unit to debug programming.
- Execute programs by steps or with break point settings, or use any of the many other debugging functions.
- Check the cycle time during simulation.
- Debug network communications and serial communications as well.





Ordering Information

	Specifications			
Product name		Number of Licenses	Media	Model
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 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) / Windows 10 (32- bit/64-bit version) CX-One Ver.4.□ includes CX-Simulator. For details, refer to the CX-One catalog (Cat. No. R134).	1 license *	DVD	CXONE-AL01D-V4
FA Integrated Tool Package CX-One Lite Ver.4.⊡	CX-One Lite is a subset of the complete CX-One package that provides only the Support Software required for micro PLC applications. CX-One Lite runs on the following OS. Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version) CX-One Lite Ver.4. includes CX-Simulator.	1 license	DVD	CXONE-LT01D-V4

Note: The CX-One and CX-One Lite cannot be simultaneously installed on the same computer. * Multi licenses (3, 10, 30, or 50 licenses) and DVD media without licenses are also available for the CX-One.

Product Configuration

Setup disk : (DVD) DVD 1 piece in the case : A4 size, English / Japanese Guidance

User license agreement / User registration card, English / Japanese

Main Functions

Execute continuously			
	Function		
Execute a single scan			
Scan continuously			
Execute a single step			
Execute steps continuously			
Pause the program execution			
Ladder program execution	Stop the program		
	Repeat scan from the beginning		
	Reset		
Execute function block program			
	Execute ST program		
Execute SFC program			
Set/Reset break points			
Stop the program at a break point			
Set/Reset start point			
Start program from a start point			
Program debugging Set/Reset I/O break conditions			
Stop the program when the I/O break conditions are satisfied			
Execute a single task			
Execute an interrupt task			
Set virtual I/O refresh time at the Unit Registration			
Set each cycle time (virtual cycle time/PC cycle time)			
Display CPU error status			
Display FAL/MSG messages			
Monitor the status			
Display cycle time details			
Display each status of the task			
Display the status of inter rock			
Display the contents of output by the serial communications commands			
Set serial communications settings Send/Receive the serial communications commands to/from the external de	vices		
Connect PT with NT Link			
Display the contents of output by the network communications commands			
Set network communications settings Sending FINS commands to and receiving FINS commands from a virtual P computer using SEND and RECV instructions.	LC running on a		
Receive the FINS commands from external PLCs and computers			
Execute command log			
Execute program in Debug UM			
Start command log			
Start CX-Programmer date trace file			
Execute virtual external input Start CX-Programmer time chart monitor file			
Set I/O conditions	Set I/O conditions		
Execute I/O conditions			
Integrated simulation PLC-PT Integrated Simulation			
PLC Error simulator PLC Error Simulator (CS/CJ/CP series)			
Data trace recording tool Execute date trace continuously			
Other tools Multipoint data collection			
tool Collect data from the actual PLC			

System Requirements

The system requirements are the same as those for the CX-One. (The CX-Simulator is included in the CX-One.) For details, refer to the FA Integrated Tool Package CX-One Datasheet.

Applicable Units

CX-Simulator can be used with SYSMAC CS/CJ/CP/NSJ-series. **Note:** Including models no longer available to order.

Applicable Models

Series	Unit
CS	CS1H-CPU63/64/65/66/67 CS1G-CPU42/43/44/45 CS1H-CPU63H/64H/65H/66H/67H CS1G-CPU42H/43H/44H/45H CS1D-CPU65H/67HA/68HA CS1D-CPU42S/44S/65S/67S/44SA/67SA
cJ	CJ1G-CPU44/45 CJ1H-CPU65H/66H/67H/64H-R/65H-R/66H-R/67H-R CJ1G-CPU42H/43H/44H/45H CJ1M-CPU11/12/13/21/22/23 CJ2H-CPU64-EIP/65-EIP/67-EIP/68-EIP CJ2H-CPU64/65/66/67/68 CJ2M-CPU11/12/13/14/15/31/32/33/34/35
СР	CP1H-XA40DR-A/XA40DT-D/XA40DT1-D/X40DR-A/X40DT-D/X40DT1-D/Y20DT-D CP1L-M60DR-A/M60DR-D/M60DT-A/M60DT1-D/M60DT1-D/M40DR-A/M40DR-D/M40DT-A/M40DT1-D/M30DR-A/M30DR-D/ M30DT-A/M30DT-D/EL20DT1-D CP1L-EL20DR-D/EL20DT-D/EL20DT1-D CP1L-EL20DR-A/L20DR-D/L20DT-A/L20DT-D/L20DT1-D/L14DR-A/L14DR-D/L14DT-A/L14DT-D/L14DT1-D/L10DR-A/L10DR-D/L10DT-A/ L10DT-D/L10DT1-D CP1E-E14SDR-A/L20SDR-A/E30SDR-A/E40SDR-A/E60SDR-A CP1E-N30SDR-A/N30S1DT1-D/N30S1DT1-D/N40S1DR-A/N40S1DT1-D/N60S1DR-A/N60S1DT-D/N60S1DT1-D CP1E-N30SDR-A/N30SDT1-D/N30S1DT1-D/N40SDR-A/N40S1DT-D/N40S1DT1-D/N60S1DR-A/N60SDT1-D CP1E-N30SDR-A/N30SDT1-D/N30SDT1-D/N40SDR-A/N40SDT1-D/N40SDT1-D/N60SDR-A/N60SDT1-D CP1E-N30SDR-A/N30SDT1-D/N30SDT1-D/N40SDR-A/N40SDT1-D/N60SDR-A/N60SDT1-D CP1E-N60DR-A/N60DT-A/E10DR-A/E10DR-A/E10DT-A/E10DT1-A/E10DR-D/E10DT1-D/E10DT1-D CP1E-N60DR-A/N30DT-D/N30DT1-D/N30DT1-D/N30DT1-D/N40DR-A/N40DR-D/N40DR-A/N40DT-D/N40DT1-A/N40DT1-D/ N30DR-A/N30DR-D/N30DT-A/N50DT-D/N30DT1-D/N30DT1-D/N20DR-A/N20DR-D/N20DT-A/N20DT-A/N20DT1-A/N20DT1-D/ N30DR-A/N30DR-D/N30DT-A/N50DT-D/N30DT1-D/N30DT1-D/N20DR-A/N20DR-D/N20DT-A/N20DT-A/N20DT1-D/ CP2E-E14DR-A/E20DR-A/E30DR-A/E40DR-A/E60DR-A CP2E-S30DR-A/S40DR-A/S30DR-A/S30DT-A/N40DR-A/N40DR-D/N30DT1-D/S30DT1-D/S30DT1-D/N30DR-D/N40DR-D/N40DT-A/N40DT-A/ N30DT-A/N40DR-A/N30DR-A/N30DR-A/N40DR-A/N40DR-D/N30DR-D/N30DR-D/N30DT-A/N20DT-D/S30DT1-D/N30DR-D/N40DR-D/N40DT-A/N40DT-A/N40DT-A/ N30DT-A/N40DR-A/N30DR-A/N40DR-A/N60DR-A/N14DR-D/N20DR-D/N30DR-D/N40DR-D/N40DR-D/N40DT-A/N20DT-A/ N30DT-A/N40DT-A/N40DT-A/N40DR-A/N60DR-A/N14DR-D/N20DR-D/N30DR-D/N40DR-D/N40DR-D/N40DT-A/N20DT-A/ N30DT-A/N40DT-A/N40DT-A/N40DR-A/N60DR-A/N14DR-D/N20DR-D/N30DR-D/N40DR-D/N40DR-D/N40DT1-D/ N60DT1-D
NSJ	NSJ5G5D NSJ8G5D NSJ10G5D NSJ12G5D NSJ5M3D NSJ8M3D

Note: Including models no longer available to order.

Related Manuals

Cat.No.	Model	Manuals name	Contents
W366	CXONE-AL D-V4	CX-Simulator Operation Manual	Describes the operating procedures for the CX-Simulator. Also refer to the following manuals when simulating operation: CX- Programmer Operation Manual (W446), CS Series Operation Manuals and CJ Series Operation Manual (CS Series: W339, CJ Series: W393), and CS/CJ Series Instructions Reference Manual (W340).
W469	CXONE-AL	CX-One Setup Manual	Installation and Overview of CX-One FA Integrated Tool Package

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