

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/NSJ-series CPU Unit operation on the computer to debug PLC programs without a CPU Unit.

Note: The CX-Simulator is included in the CX-One FA Integrated Tool Package. It can not be purchased separately.



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

Product name	Specifications			Model
		Number of Licenses	Media	
FA Integrated Tool Package CX-One Ver.4.□	<p>The CX-One is a package that integrates the Support Software for OMRON PLCs and components.</p> <p>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)</p> <p>CX-One Ver.4.□ includes CX-Simulator. For details, refer to the CX-One catalog (Cat. No. R134).</p>	1 license *	DVD	CXONE-AL01D-V4
FA Integrated Tool Package CX-One Lite Ver.4.□	<p>CX-One Lite is a subset of the complete CX-One package that provides only the Support Software required for micro PLC applications.</p> <p>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)</p> <p>CX-One Lite Ver.4.□ includes CX-Simulator.</p>	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
 Guidance : A4 size, English / Japanese
 User license agreement / User registration card, English / Japanese

Main Functions

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

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/67H/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/66-EIP/67-EIP/68-EIP CJ2H-CPU64/65/66/67/68 CJ2M-CPU11/12/13/14/15/31/32/33/34/35
CP	CP1H-XA40DR-A/XA40DT-D/XA40DT1-D/X40DR-A/X40DT-D/X40DT1-D/Y20DT-D CP1L-M60DR-A/M60DR-D/M60DT-A/M60DT-D/M60DT1-D/M40DR-A/M40DR-D/M40DT-A/M40DT-D/M40DT1-D/M30DR-A/M30DR-D/ M30DT-A/M30DT-D/M30DT1-D CP1L-EL20DR-D/EL20DT-D/EL20DT1-D CP1L-EM40DR/EM40DT-D/EM40DT1-D/EM30DR-D/EM30DT-D/EM30DT1-D CP1L-L20DR-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/E20SDR-A/E30SDR-A/E40SDR-A/E60SDR-A CP1E-N30S1DR-A/N30S1DT-D/N30S1DT1-D/N40S1DR-A/N40S1DT-D/N40S1DT1-D/N60S1DR-A/N60S1DT-D/N60S1DT1-D CP1E-N30SDR-A/N30SDT-D/N30SDT1-D/N40SDR-A/N40SDT-D/N40SDT1-D/N60SDR-A/N60SDT-D/N60SDT1-D CP1E-E40DR-A/E30DR-A/E20DR-A/E14DR-A/E10DR-A/E10DT-A/E10DT1-A/E10DR-D/E10DT-D/E10DT1-D CP1E-N60DR-A/N60DT-A/N60DT1-A/N60DR-D/N60DT-D/N60DT1-D/N40DR-A/N40DR-D/N40DT-A/N40DT-D/N40DT1-A/N40DT1-D/ N30DR-A/N30DR-D/N30DT-A/N30DT-D/N30DT1-A/N30DT1-D/N20DR-A/N20DR-D/N20DT-A/N20DT-D/N20DT1-A/N20DT1-D/ N14DR-A/N14DT-A/N14DT1-A/N14DR-D/N14DT-D/N14DT1-D CP1E-NA20DR-A/NA20DT-D/NA20DT1-D CP2E-E14DR-A/E20DR-A/E30DR-A/E40DR-A/E60DR-A CP2E-S30DR-A/S40DR-A/S60DR-A/S30DT-D/S40DT-D/S60DT-D/S30DT1-D/S40DT1-D/S60DT1-D CP2E-N14DR-A/N20DR-A/N30DR-A/N40DR-A/N60DR-A/N14DR-D/N20DR-D/N30DR-D/N40DR-D/N60DR-D/N14DT-A/N20DT-A/ N30DT-A/N40DT-A/N60DT-A/N14DT-D/N20DT-D/N30DT-D/N40DT-D/N60DT-D/N14DT1-D/N20DT1-D/N30DT1-D/N40DT1-D/ N60DT1-D
NSJ	NSJ5-□-G5D NSJ8-□-G5D NSJ10-□-G5D NSJ12-□-G5D NSJ5-□-M3D NSJ8-□-M3D

Note: Including models whose production were discontinued.

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□□D-V4	CX-One Setup Manual	Installation and Overview of CX-One FA Integrated Tool Package

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