FA Integrated Tool Package CX-One

CX-Simulator Ver.1

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	Standards
		Number of Licenses	**Media**		
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-Simulator Ver.1.□. For details, refer to the CX-One catalog (Cat. No. R134).	1 license ∗1	DVD ∗2	**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 XP (Service Pack 3 or higher), Vista or 7 **Note:** Except for Windows XP 64-bit version. CX-One Lite Ver.4.□ includes CX-Simulator Ver.1.□.	1 license	CD	**CXONE-LT01C-V4**	

Note: The CX-One and CX-One Lite cannot be simultaneously installed on the same computer.
∗**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).

Product Configuration

Setup disk   : (CD)   CD 4 pieces in the case
                      (DVD)   DVD 1 piece in the case ∗
Guidance   : A4 size, English / Japanese
User license agreement / User registration card, English / Japanese
∗ CX-One Lite has the CD version only.

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
		Display the status of inter rock
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 CS1D-CPU42S/44S/65S/67S
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-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-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-T/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

NSJ	NSJ5-☐-G5D NSJ8-☐-G5D NSJ10-☐-G5D NSJ12-☐-G5D NSJ5-☐-M3D NSJ8-☐-M3D

Related Manuals

Cat.No.	Model	Manuals name	Contents
W366	CXONE-AL☐☐C-V4/ 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☐☐C-V4/ AL☐☐D-V4	CX-One Setup Manual	Installation and Overview of CX-One FA Integrated Tool Package