Greater Integration with the CX-One

- The CX-One is a comprehensive software package that integrates PLC Programming Software with Support Software for setting up Networks, Programmable Terminals, Servo Systems, Inverters, and Temperature Controllers.

Features

- Integrated Software Management for OMRON PLCs and Components
- CPU Bus Units and Special I/O Units can be set without concern for memory addresses and without relying on operation manuals
- Support Software for CPU Bus Units and Special I/O Units can be started from the I/O tables
- Integrated Simulation for Greater Design and Debugging Efficiency
- Online Web Services

Ordering Information

Product name	Specifications	Number of licenses	Media	Model	Standards
FA Integrated Tool Package CX-One Ver.4.□	The CX-One is a comprehensive software package that integrates Support Software for OMRON PLCs and components. CX-One runs on the following OS. *1 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)	– (Media only) *2	DVD	CXONE-AL00D-V4	–
		1 license		CXONE-AL01D-V4	
		3 licenses		CXONE-AL03D-V4	
		10 licenses		CXONE-AL10D-V4	
		30 licenses		CXONE-AL30D-V4	
		50 licenses		CXONE-AL50D-V4	
		Unrestricted *3 (Site license)		Ask your OMRON representative for details.	
	The upgrade versions *4	1 license	DVD	CXONE-AL01D-V4-UP	–
		3 licenses		CXONE-AL03D-V4-UP	
		10 licenses		CXONE-AL10D-V4-UP	
		30 licenses		CXONE-AL30D-V4-UP	
		50 licenses		CXONE-AL50D-V4-UP	
		Unrestricted *3 (Site license)		CXONE-ALXXD-V4-UP	
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. *1 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)	1 license	DVD	CXONE-LT01D-V4	–
	The upgrade versions *4	1 license	DVD	CXONE-LT01D-V4-UP	–

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

∗1. The NX-IO Configurator runs on Windows 7 SP1, 8, 8.1, and 10.
It cannot be installed on Windows XP, Vista, and 7 without Service Pack.

∗2. The CXONE-AL00D-V4 contains only the DVD installation media for users who have purchased the CX-One Version 4.□ and does not include the license number. Enter the license number of the CX-One Version 4.□ when installing.
(The license number of the CX-One Version 3.□ or lower cannot be used for installation.)

∗3. This is a site license for users who want to use CX-One on many computers.
•The number of users is unrestricted for the same company and site.
•Only one license number must be managed.
•All computers that use the site license can take advantage of automatic updates and software downloads.

∗4. The upgrade versions are for customers that already have CX-One Version 3.□ or lower.

Product Configuration

Setup disk: (DVD) DVD 1 piece in the case
Guidance: A4 size, English/Japanese
Product Registration Guide, Japanese
User license agreement/User registration card,English/Japanese

Support Software

The following tables lists the Support Software that can be installed from CX-One

Support Software in CX-One	Outline
CX-Programmer	Application software to create and debug programs for CS/CJ/CP/NSJ-series, C-series, and CVM1/CV-series CPU Units. Data can be created and monitored for high-speed-type Position Control Units.
CX-Integrator	Application software to build and set up FA networks, such as Controller Link, DeviceNet, CompoNet, CompoWay, and Ethernet networks. The Routing Table Component and Data Link Component can be started from here. DeviceNet Configuration functionality is also included.
Switch Box Utility	Utility software that helps you to debug PLCs. It helps you to monitor the I/O status and to monitor/change present values within the PLC you specify.
CX-Protocol	Application software to create protocols (communications sequences) between CS/CJ/CP/NSJ-series or C200HX/HG/HE Serial Communications Boards/Units and general-purpose external devices.
CX-Simulator	Application software to simulate CS/CJ/CP/NSJ-series CPU Unit operation on the computer to debug PLC programs without a CPU Unit.
CX-Position	Application software to create and monitor data for CS/CJ-series Position Control Units (except for High-speed type).
CX-Motion-NCF	Application software to monitor and set parameters for CS/CJ-series Position Control Units and Servo Drivers that support MECHATROLINK-II communications.
CX-Motion-MCH	Application software to create data for CS/CJ-series MCH Units, create motion programs, and perform monitoring.
CX-Motion	Application software to create data for CS/CJ-series, C200HX/HG/HE, and CVM1/CV-series Motion Control Units, and to create and monitor motion control programs.
CX-Drive	Application software to set and control data for Inverters and Servos.
CX-Process Tool	Application software to create and debug function block programs for CS/CJ-series Loop Controllers (Loop Control Units/Boards, Process Control CPU Units, and Loop Control CPU Units).
Faceplate Auto-Builder for NS	Application software that automatically outputs screen data as project files for NS-series PTs from tag information in function block programs created with the CX-Process Tool.
CX-Designer	Application software to create screen data for NS-series PTs.
NV-Designer	Application software to create screen data for NV-series small PTs.
CX-ConfiguratorFDT	Application software for setting various units by installing its DTM module.
CX-Thermo	Application software to set and control parameters in components such as Temperature Control Units.
CX-FLnet	Application software for system setting and monitoring of CS/CJ-series FI-net Units.
Network Configurator	Application software to setup and monitor tag data Link for CJ2 (Built-in EtherNet/IP) CPU Units and EtherNet/IP Units.
NX-IO Configurator	Application software to set up and maintain EtherNet/IP Coupler Units and NX-series I/O Units on an EtherNet/IP Coupler Unit.
CX-Server	Middleware necessary for CX-One applications to communicate with OMRON components, such as PLCs, Display Devices, and Temperature Control Units.
Communications Middleware	Middleware necessary to communicate with CP1L CPU Unit with built-in Ethernet port.
PLC Tools	A group of components used with CX-One applications, such as the CX-Programmer and CX-Integrator. Includes the following: I/O tables, PLC memory, PLC Setup, Data Tracing/Time Chart Monitoring, PLC Error Logs, File Memory, PLC clock, Routing Tables, and Data Link Tables.

System Requirements

Item	Requirement
Operating system (OS) (See note 1, 2.)	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)
CPU	A processor recommended by Microsoft
Memory (See note 3.)	A memory recommended by Microsoft
Hard disk	Approx. 4.0 GB or more available space is required to install the complete CX-One package.
Display	XGA (1,024 × 768), High-Color 16-bit min.
Disk drive	DVD-ROM drive
Communications ports	RS-232C port, USB port, or Ethernet port (see note 4.)
Other	Internet access is required for online user registration, including a modem or other hardware connection method.

Note: 1. CX-One Operating System Precaution
   1) System requirements and hard disk space may vary with the system environment.
2. The following restrictions apply when CX-One is used with Microsoft Windows 7 / Windows 8 / Windows 8.1 / Windows 10.
   The following restrictions apply to some application operations.

Application	Restriction
CX-Designer/ NV-Designer	If a new Windows 7 / Windows 8 / Windows 8.1 / Windows 10 font (e.g., Meiryo) is used in a project, the font size on labels may be bigger and protrude from the components if the project is transferred from CX-Designer running on a Windows XP or earlier OS to the NS/NSJ.
CX-Programmer/ CX-Integrator/ Network Configurator	Although you can install CPS files, EDS files, Expansion Modules, and Interface Modules, the virtual store function of Windows 7 / Windows 8 / Windows 8.1 / Windows 10 imposes the following restrictions on the use of the software after installation. These restrictions will not exist if application data is installed using Run as Administrator. • If another user logs in, the applications data will need to be installed again. • The CPS files will not be automatically updated.
CX-Server	Restrictions are imposed on the following functions. • The driver cannot be changed from the default setting if Controller Link is set as the network type in the Change PLC dialog box. • Online connections will not be possible through Controller Link Boards or SYSMAC LINK Boards. • Online connections using FinsGateway as the network type will not be possible from the CX-Programmer or CX-Integrator. • Communications will not be possible though a CS1 Board and PCI bus.

3. The amount of memory required varies with the Support Software used in CX-One for the following Support Software. Refer to user documentation for individual Support Software for details.
   CX-Programmer, CX-Designer, CX-Thermo, CX-Simulator, CX-Protocol, CX-Motion, CX-Drive, CX-Process Tool, and Faceplate Auto-Builder for NS
4. Refer to the hardware manual for your PLC for hardware connection methods and cables to connect the computer and PLC.

Hard Disk Space Requirements

Support Software in CX-One	Approx. hard disk space required.	Remarks
CX-Programmer	Approx. 330 MB	Options can be selected or cleared to install or not install individual Support Software.
CX-Position	Approx. 15 MB	
CX-Motoion	Approx. 45 MB	
CX-Motion-NCF	Approx. 260 MB	
CX-Motion-MCH	Approx. 60 MB	
CX-Drive	Approx. 200 MB	
NV-Designer	Approx. 110 MB	
CX-Process Tool	Approx. 100 MB	
Faceplate Auto-Builder for NS	Approx. 70 MB	
CX-Simulator	Approx. 45 MB	
CX-Thermo	Approx. 200 MB	
CX-FInet	Approx. 2 MB	
Switch Box Utility	Approx. 5 MB	
NX-IO Configurator	Approx. 100 MB	
CX-Integrator	Approx. 260 MB	Always installed. ✲
CX-Designer	Approx. 750 MB	
CX-Protocol	Approx. 20 MB	
Network Configurator	Approx. 20 MB	
CX-ConfiguratorFDT	Approx. 40 MB	
CX-Server and PLC Tools	Approx. 700 MB	

✲ The CX-Server (communications middleware) and PLC Tools (common components) are installed on the system drive.
Note: If the complete CX-One package is installed, approximately 4.0 GB of hard disk space will be required (including workspace required for installation). Check available space on your hard disk before installing software.

Related Manuals

Cat. No.	Model	Manual name	Contents
W463	CXONE-AL□□D-V4	CX-One Setup Manual	Installation and overview of CX-One FA Integrated Tool Package.

OMRON

Authorized Distributor:

Controllers & I/O
• Machine Automation Controllers (MAC) • Motion Controllers
• Programmable Logic Controllers (PLC) • Temperature Controllers • Remote I/O

Robotics
• Industrial Robots • Mobile Robots

Operator Interfaces
• Human Machine Interface (HMI)

Motion & Drives
• Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
• Frequency Inverters

Vision, Measurement & Identification
• Vision Sensors & Systems • Measurement Sensors • Auto Identification
Systems

Sensing
• Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
• Rotary Encoders • Ultrasonic Sensors

Safety
• Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
• Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
• Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components
• Power Supplies • Timers • Counters • Programmable Relays
• Digital Panel Meters • Monitoring Products

Switches & Relays
• Limit Switches • Pushbutton Switches • Electromechanical Relays
• Solid State Relays

Software
• Programming & Configuration • Runtime