

Industrial Automation Guide 2016



Industrial Products & Systems

industrial.omron.eu

Targeted Technologies

Creating maximum output with minimum input

By identifying the many ways of innovation in specific industries we developed the 'targeted technologies' concept. It's a way of thinking about technology in a prioritized format. Prioritized according to our customers' most pressing needs. The result? A set of solutions that make immediate impact on the core of our customers' businesses. A set of solutions that hit the target every time. Take a look at the examples on our website.

industrial.omron.eu/technologies



PROplus Line

If you have a complex application or one where you need to address special needs, then the PROplus Line is the answer. That's because PROplus is a product line that is designed to meet a wide range of needs. The PROplus Line is a family of products that are designed to meet a wide range of needs. The PROplus Line is a family of products that are designed to meet a wide range of needs.

The new ES-NH temperature controller. The new ES-NH temperature controller. The new ES-NH temperature controller. The new ES-NH temperature controller. The new ES-NH temperature controller. The new ES-NH temperature controller. The new ES-NH temperature controller. The new ES-NH temperature controller.

The 361° Approach



OMRON

Industrial Automation Europe

Omron IAB partner

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Technologies

Creating maximum output with minimum input

Whatever type of automated machinery you are specialized in, you know that there are many ways to innovate. You are already aware that there are many possible areas for improvement. But where do you start? Where do you focus your efforts? Where can you make the biggest difference with the least amount of effort?

At Omron, we asked ourselves these questions too. And by identifying the answers in specific industries we developed the 'targeted technologies' concept. It's a way of thinking about technology in a prioritized format. Prioritized according to our customers' most pressing needs. The result? A set of solutions that make immediate impact on the core of our customers' businesses. A set of solutions that hit the target every time. Take a look at the examples below.

Technologies

Sysmac: the all-in-one platform

We know that machine builders prefer different product solutions for different challenges. But this can cause hierarchy headaches and communications issues. That's why we developed Sysmac: a single unified platform that is open, scalable, flexible, and totally focused on maximising the speed and flexibility of machines. A platform that integrates robotic, motion and sequential logic control into a single multitasking system.

[Learn more](#)



361°: the perfect match

When it comes to sensors and components, we know that our customers all have different needs. That's why our product development in this area is driven by the 361° Approach. It produces product families that offer a total all-round choice. From quality products suited to standard environments to specialist devices that can handle extremes. A full circle of choice, all with an extra degree of quality and proven reliability.

[Learn more](#)



The 361° portfolio

PRO Line
PROplus products are designed for specialty applications or customer demands.

[Learn more](#)



LITE Line

LITE sensors are the effective solution for maximum quality.

[Learn more](#)



PRO Line

If you want extra performance in your sensors and components the Omron PRO Line is your perfect choice.

[Learn more](#)



Grinding made easy

Sysmac controller provides a flexible platform

The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels.

Product groups

Sysmac controller

The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels.

Robotics

The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels.

Sensors

The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels.

Image sensors

The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels.

Integrated safety

The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels. The Sysmac controller provides a flexible platform for managing the production of high-quality grinding wheels.

Related product news

With new G2 sensors, you only pay for what you need

Optimizing relative position sensors in the new G2 range has been specifically designed to offer a cost-effective sensing solution or standard industrial conditions, making it unnecessary to buy more sensors than you actually need.

[Learn more](#)

Related product news

ES16 - Omron's new photo sensors combine simplicity with performance

Drawing on our experience of manufacturing over a million production sensors a year, we have developed a new generation of high-precision products that combine simple selection, installation with reliability, versatility, rugged construction and value for money.

[Learn more](#)

Related product news

AS Safety Control: New step towards the full integration of Automation

Omron's new AS Safety Control is a new step towards the full integration of Automation. The AS Safety Control is a new step towards the full integration of Automation. The AS Safety Control is a new step towards the full integration of Automation.



ES16 (D) for Machine Control

ES16 (D) is designed for use in machine control applications. It is a high-precision photo sensor that combines simple selection, installation with reliability, versatility, rugged construction and value for money.

[Learn more](#)



ES16 (D) for Machine Control

ES16 (D) is designed for use in machine control applications. It is a high-precision photo sensor that combines simple selection, installation with reliability, versatility, rugged construction and value for money.

[Learn more](#)

Welcome to our world

Our best-in-class devices for your automation system

Welcome to Omron's world of advanced industrial automation. The INDUSTRIAL AUTOMATION GUIDE is your essential tool to select best-in-class devices for your automation system. It highlights our core competences in sensing, control, visualisation, motion and panel components.

Of course, Omron offers a much larger range of products than you can find on the attached DVD. For more information on services and company competence visit our website.

Here you will find:

- Latest product news
- Technical product specifications
- 2D / 3D CAD Library
- Customer references
- Technology concepts
- Supporting product documentation
- Knowledge Base - "myOmron"
- Events Calendar
- Contact information

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Quick Links shortens your search. Quick Links are unique codes assigned to Omron products listed in this guide. Enter Quick Link codes in the search box on industrial.omron.eu to access detailed information on products in this guide.



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“To the machine the work of the machine,
to man the thrill of further creation.”

Kazuma Tateisi, founder of Omron

Omron at a glance

200.000 products ranging
input, logic and output

Sensing, Control Systems, Visualization, Drives, Robots, Safety,
Quality Control & Inspection, Control and Switching Components

7%

Investment in Research & Development

Innovation track
record of 80 years

Top 150 global patent assignee

1.200 employees dedicated to R&D

11.000 + issued and pending patents

37.000

Employees worldwide

210

Locations worldwide

22

Countries in EMEA

Working for the
benefit of society



Close to your needs

Technical training & seminars, technical support, Automation Technology Centers, online community (MyOmron), online catalogues and technical documentation, customer service & sales support, inter-operability labs (Tsunagi), safety services, repairs.

Your needs, our focus

Solutions perfectly matching your needs

We asked ourselves: 'What do you need in sensors and components?' Well, first you need reliability. Then a variety and choice of performance levels. You may also want advanced functionality, with special features defined by you – or you may want standardized solutions, with highly competitive prices.

Whatever it is, it can all add up to a wish list that is difficult to fulfil. Until now. That's because our new 361° Approach not only provides a complete all-round offer without gaps, it also puts you at the very centre of the product selection process. It's an approach that leads to a Perfect Match – one with the extra degree of confidence that comes from choosing Omron.

361° in one view



Quality



Line-up



Application



Customization



Global availability



Specs

	Quality	Line-up	Application	Customization	Global availability	Specs
PRO^{plus}	Premium	Tailored	Special	Yes	Yes	Application oriented
PRO	Premium	Complete	Advanced	Yes	Yes	Above Standard
LITE	Premium	Standard	Basic	No	No	Basic
	'Quality' refers to the standard of manufacturing and the materials used – this translates into reliability	'Line-up' refers to the number of model types	'Application' indicates the complexity of the automation	'Customization' is the possibility to modify the product		'Specs' refers to the choice of performance levels

The extra degree of advantage

Three distinct lines of sensors and components

Three distinct lines

361° Approach offers three distinct lines within each sensor or component product category. LITE products are cost-effective without any compromise in quality. PRO products represent the “install & forget” option, offering longer lifetime, higher protection, and more features. While PROplus products are designed for specific applications or customer demands.

Optimized reliability

All three lines are backed by the Omron commitment to quality, so even when you need a price-competitive advantage, you can be confident that they will never let you down.

Solutions that perfectly match your needs

The 361° Approach ensures that you can quickly and easily identify the perfect match solution to your needs – nothing more, nothing less.

Optimized costs

Your sensor and component costs are also minimized – because it eliminates over-specification.

Why an extra 1°?

The extra degree is what you get when you do business with Omron, and that means different things to different customers – all depending on their needs. For example, if you need specification advice, the extra degree is ‘service’. But ultimately, to everyone it means “an extra degree of confidence in the perfect match”.



Sysmac: A fully integrated platform

Integration and Functionality

Sysmac is an integrated automation platform dedicated to providing complete control and management of your automation plant. At the core of this platform, the Machine Controller series offers synchronous control of all machine devices and advanced functionality such as motion, robotics and database connectivity. This multidisciplinary concept allows you to simplify solution architecture, reduce programming and optimize productivity.



Machine Automation Controller

FACTORY
AUTOMATION

MACHINE
CONTROL

Motion



Filling line

- Motion Control: Integrated within the IDE, and operating in real-time
- Standard PLCopen Function Blocks plus Omron generated motion FB's
- Direct Synchronous control for Position, Speed and Torque

Safety



Assembly

- All safety related data is synchronized with the whole network
- Safety functions such as muting, guard locking, EDM and valve monitoring are simple to manage

- ✓ **One Integrated Development Environment software** for Configuration, Programming, Simulation and Monitoring



Information



Pills blister packing

- Sysmac communicates in real-time with Databases such as SQL
- Secure Data: In the event of a server going down or losing communications, data is automatically stored in internal memory
- Sysmac operates with Databases at high speed [1000 table element/ 100 ms] ensuring realistic Big Data Processing to improve productivity and aid predictive maintenance etc.

✓ Integrated Automation Control:

The Sysmac platform is scalable and provides the performance and functionality for a wide range of solutions from simple machines through to manufacturing cells

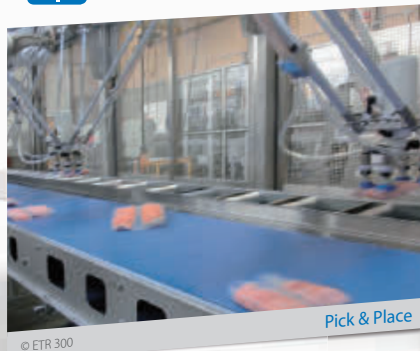
Vision



Quality inspection

- Higher resolution images available without increasing the vision processing time
- Shape search technology: Provides more stable and accurate object detection for Pick & Place projects

Robotics



Pick & Place

- Up to 8 Delta robots with one controller
- Time-based Robotic Function Blocks make programming easier

Sensing



Presence detection of the rubber seal

- Full control of the process parameter setting and predictive maintenance functions
- High precision detection and positioning data synchronized on the network

Product selection table

Automation systems				
	12 Machine automation controller	26 Programmable logic controllers (PLC)	54 Remote I/O	68 Human machine interfaces (HMI)
				
	96 Motion controllers	112 Servo systems	170 Robots	202 Frequency inverters
Sensing				
	236 Photoelectric sensors	278 Mark and Color sensors	284 Lightcurtains and area sensors	292 Fiber optic sensors and amplifiers
				
	370 Inspection & Ident systems	426 Measurement sensors		
Safety				
	462 Emergency stop and control devices	472 Safety limit switches	480 Safety door switches	506 Safety sensors
				
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Software				

Software

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Quick Link

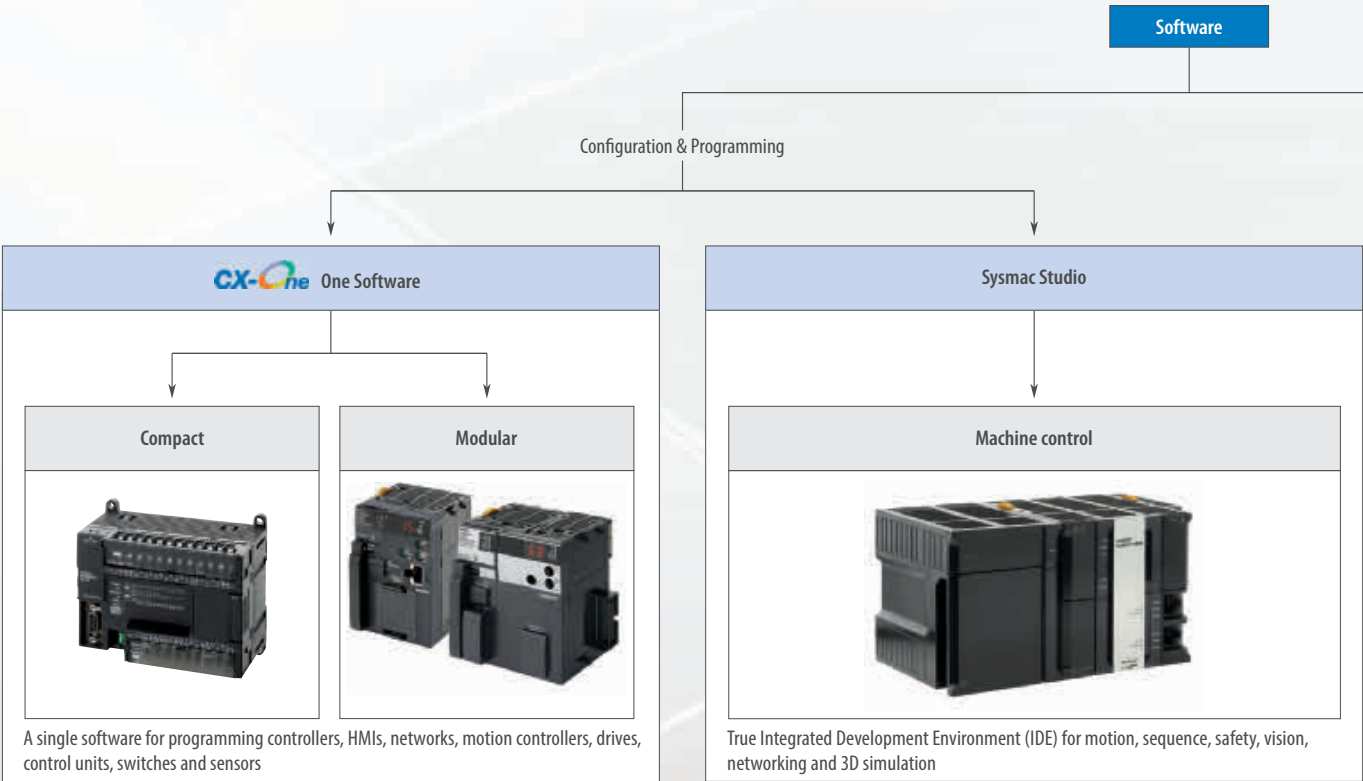
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Software	
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ONE SOFTWARE-ONE CONNECTION-ONE MINUTE

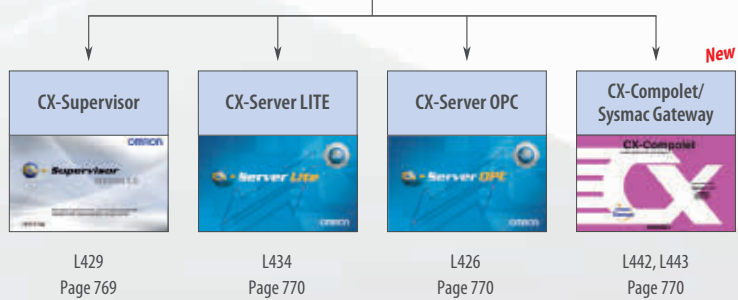
One software for all your automation needs

“One Software” is a key component of the overall architecture of Omron software. Whether for our Compact & Modular range or our new Sysmac platform, integration of software technologies brings value direct to the customer. These softwares integrate configuration, programming and monitoring in packages designed for those platforms. Integrated software gives you the power and efficiency to develop and create like never before.





Visualisation





Integrated “One software” that covers all your requirements for complete machine automation

This single programming and configuration environment is an integrated software management tool called CX-One that enables the user to build, configure and program networks, PLCs, HMIs, motion control systems, drives, temperature controllers and sensors. The result of a single software is to reduce complexity of the configuration and allow automation systems to be programmed or configured with minimal training.

By registering a licence number at www.omron-industrial.com, users can benefit from free updates to their version of CX-One for 12 months free of charge. An automatic update service can notify users as soon as relevant updates are available.

CX-One is available as two types. FULL supporting all PLCs or LITE designed for our compact PLC range. Thus our integrated “One Software” applies to our complete portfolio.

Ordering information

CX-One FULL	Media	Order code
Single licence	Licence Only	CXONE-AL01-EV_
Three user licence	Licence Only	CXONE-AL03-EV_
Ten user licence	Licence Only	CXONE-AL010-EV_
Thirty user licence	Licence Only	CXONE-AL030-EV_
Fifty user licence	Licence Only	CXONE-AL050-EV_
Site licence	Licence Only	CXONE-AL0XX-EV_
Software on CDs	CD	CXONE-CD-EV_
Software on a DVD	DVD	CXONE-DVD-EV_
CX-One LITE	Media	Order code
Single user licence	Licence Only	CXONE-LT01-EV_
Software on CD	CD	CXONE-LTCD-EV_

Specifications

Subject	Indicator	Description
Programming	CX-Programmer	CX-Programmer provides one common PLC software platform for all types of Omron PLC controllers – from micro PLC's up to Duplex processor systems. It allows easy conversion and re-use of PLC code between different PLC types, and the full re-use of control programs created by older generation PLC programming software.
	CX-Simulator	A debugging environment equivalent to the actual PLC system environment can be achieved by simulating the operation of a CS/CJ Series PLC with a virtual PLC in the computer. CX-Simulator makes it possible to evaluate program operation, check the cycle time and reduce debugging time before the actual equipment is assembled.
	CX-Designer	CX-Designer is used to create screen data for NS-series Programmable Terminals. CX-Designer can also check the operation of the created screen data on the computer. CX-Designer enables efficient development process for screen creation, simulation and project deployment. Users can develop screens more efficiently with Easy-to-use Support Software. CX-Designer has about 1,000 standard functional objects with associated graphics and advanced functions, so even first-time users can create screens easily just by arranging functional objects in a screen.
Networks	CX-Integrator	CX-Integrator is the main configuration software for CX-One. It enables easy performance of many operations, such as monitoring the connection status of various networks, setting parameters, and diagnosing networks.
	CX-ConfiguratorFDT	Based on FDT/DTM technology, CX-ConfiguratorFDT can be used to configure devices from any vendor connected to a PROFIBUS network. This concept will later be expanded to support many more networks using this technology.
Motion & Drives	CX-Motion	CX-Motion can be used to create, edit, and print the various parameters, position data, and motion control programs (G code) required to operate Motion Controllers, transfer the data to the Motion Control units, and monitor operation of the Motion Control units. Increase productivity in every step of the motion control process, from development of the motion control program to system operation.
	CX-Drive	The complete current range of Omron Yaskawa inverters and servos is covered in this software with full access to all parameters (with 3 different operator levels available). An easy overview of parameters is also included which includes filters to show values that are: different from default, different from inverter, invalid setting. Graphical overviews are available to further assist with configuration of some more detailed parameters such as jump frequencies, v/f profiles and analog setting.
	CX-Position	CX-Position simplifies every aspect of position control, from creating/editing the data used in Position Control units (NC units) to communicating online and monitoring operation. The software is equipped with functions that can improve productivity, such as automatically generating project data and reusing existing data.
Regulation and Switching	CX-Thermo	Omron's CX-Thermo support software has been specially developed for use with the company's E5CN, E5EN, E5GN, E5AN, E5CN-H, E5EN-H, E5AN-H, E5ZN, E5AR, E5ER and CelciuX [®] temperature controllers. CX-Thermo enables faster parameter set-up, easier device adjustment and simpler maintenance. It dramatically reduces the time and effort needed to set and manage temperature control parameters.
	CX-Process	CX-Process simplifies every aspect of loop control, from creating/transferring function blocks to running the Boards/units and debugging (tuning PID parameters, etc.) operation. Function block programs can be created easily by pasting function blocks in the window and making software connections with the mouse.
Sensing	CX-Sensor	CX-Sensor allows configuration and monitoring of Omron's ZX range of sensors via a series of easy to use displays. The graphing dialog allows the outputs from several sensors to be reviewed and compared simultaneously, allowing configuration of complex processes. The software also includes a driver that allows sensor data to be accessed via an Omron serial control unit (SCU) and from other Omron applications such as CX-Supervisor. With the aid of Omron's CX-Server OPC application it is even possible to monitor sensor data in real time from Microsoft Excel.



CX-Supervisor now comes in two editions:

CX-Supervisor Machine Edition is the perfect choice for almost all machine visualization requirements. Supporting connection of up to 15 devices and up to 500 user definable points (array = 1 point), it is flexible and powerful enough for the control and supervision of a complete machine or an entire manufacturing process. And its easy-to-use Windows® Explorer-style development environment makes building the most sophisticated graphic interfaces simple.

Powerful Machine Visualisation

CX-Supervisor is dedicated to the design and operation of PC visualisation and machine control. It is not only simple to use for small supervisory and control tasks, but also offers a wealth of power for the design of the most sophisticated applications. CX-Supervisor boasts powerful functions for a wide range of PC based HMI requirements. Simple applications can be created rapidly with the aid of a large number of predefined functions and libraries, and even very complex applications can be generated with a powerful programming language or VBScript™. CX-Supervisor has an extremely simple, intuitive handling and high user friendliness. Importing ActiveX components makes it possible to create flexible applications and extend functionality.

CX-Supervisor PLUS is for those exceptional cases where an application demands a higher number of devices or points than can be handled by CX-Supervisor Machine Edition. It otherwise shares all of the same power and features.

Ordering information

Description	Media	Order code
Developer & runtime (no protection included)	CD	CX-SUPERVISOR-V_ _ _
Developer upgrade (no protection included, requires licence of previous version)	CD	CX-SUPERVISOR-UPGR-V_ _ _
Machine Edition runtime including USB dongle protection	CD	CX-SUPERVISOR-RUN-ME-V_ _ _
PLUS Edition runtime including USB dongle protection	CD	CX-SUPERVISOR-RUN-PLUS-V_ _ _

Specifications

Feature	Supervisor	
	Machine Edition	Plus
ActiveX	Yes	Yes
VBScript	Yes	Yes
Recipes	Yes	Yes
Alarms	300	3000
Animation	Yes	Yes
Max Devices (PLCs etc)	20	256
OPC Connections	Yes	Yes
Max Points	500	8000
Max Regular Interval Scripts	10	100
Max Num Pages	100	500
Databases supported	MS Access	MS Access SQL, ODBC, MS Access, MS Excel, dBase, CSV



Omron's devices meet 'Open Integration'

CX-Server OPC provides a connection between the industry standard OPC interface specification and Omron's network architecture and controllers. CX-Server OPC allows any OPC compliant client software to interface easily with Omron.

The multi-vendor connectivity and information exchange capability of CX-Server OPC eliminates driver development issues.

CX-Server OPC includes an ActiveX OPC client control and a set of graphical components. Linking the graphical controls can be done without a single line of script. No programming knowledge is required!

Ordering information

Description	Media	Order code
CX-Server OPC	CD & Licence	CX-OPC-EV_

CX-Server LITE



Simple but effective connectivity

As a pair to our OPC product, CX-Server LITE is designed to meet a wide variety of programmers' needs from the simple to the advanced. Used to create PC-based simple HMI projects, CX-Server LITE allows designers of custom programs to send and receive PLC data and manipulate controllers within Omron networks.

Based on ActiveX technology, it is easy to add a communications control to a VB project or an Excel spreadsheet. Live data can be updated directly into a cell or range of cells.

CX-Server LITE includes a set of graphical components designed to connect to the communications control. Linking the graphical controls can be done without a single line of script. No programming knowledge is required!

Ordering information

Description	Media	Order code
CX-Server LITE	CD & Licence	CX-LITE-EV_

CX-Compolet/SYSMAC Gateway



High Performance and full connectivity

CX-Compolet includes software components that can make it easy to create programs for communications between a computer and Omron controllers. This package includes .NET control objects and ActiveX control objects that can be used with Visual Basic and C# programming languages. Apart of the standard communication functionality, it supports the communication using Ethernet/IP Tag names with CJ2 and NJ/NX controller families. Data types like structures and arrays are also supported.

SYSMAC Gateway is a communications middleware for personal computers running Windows. Support CIP communications and tag data links (Ethernet/IP) in addition to FinsGateway functions. It's available as a standalone package to act just as Communications Middleware and it's also included in the CX-Compolet package.

Ordering information

Description	Media	Order code
CX-Compolet (includes also the Sysmac Gateway)	CD & Licence	CX-COMPOLET-EV1-01L
SYSMAC Gateway (communications middleware)	CD & Licence	SYSMAC-GATEWAY-RUN-V1



Sysmac Studio for machine creators

The Sysmac Studio provides one design and operation environment for configuration, programming, simulation and monitoring.

- One software for motion, logic sequencing, safety, vision and HMI
- Fully compliant with open standard IEC 61131-3
- Supports Ladder, Structured text and In-Line ST programming with a rich instruction set
- CAM editor for easy programming of complex motion profiles
- One simulation tool for sequence and motion in a 3D environment
- Advanced security function with 32 digit security password

Ordering information

Automation software

Please purchase a DVD and licenses the first time you purchase the Sysmac Studio. DVDs and licenses are available individually. The license does not include the DVD.

Product	Specifications			Order code
	Description	Number of licenses	Media	
Sysmac Studio Standard Edition Ver. 1.□□	The Sysmac Studio provides an integrated development environment to set up, program, debug and maintain NX7/NJ series controllers, other machine automation controllers, EtherCAT slaves and HMI. Sysmac Studio runs on the following OS: Windows XP (Service Pack 3 or higher, 32-bit version)/ Windows Vista (32-bit version) Windows 7 (32-bit/64-bit version) Windows 8 (32-bit/64-bit version) Windows 8.1 (32-bit/64-bit version)	– (Media only)	DVD ^{*1}	SYSMAC-SE200D
		1 license	–	SYSMAC-SE201L
		3 licenses	–	SYSMAC-SE203L
		10 licenses	–	SYSMAC-SE210L
		30 licenses	–	SYSMAC-SE230L
		50 licenses	–	SYSMAC-SE250L
Sysmac Studio Vision Edition Ver. 1.□□ ^{*2,*3}	Sysmac Studio Vision Edition is a limited license that provides selected functions required for FQ-M and FH series vision sensor settings.	1 license	–	SYSMAC-VE001L
Sysmac Studio Measurement Sensor Edition Ver. 1.□□ ^{*3,*4}	Sysmac Studio Measurement Sensor Edition is a limited license that provides selected functions required for ZW-series displacement sensor settings	1 license	–	SYSMAC-ME001L
		3 licenses	–	SYSMAC-ME003L
Sysmac Studio NX I/O Edition Ver. 1.□□ ^{*3,*5}	Sysmac Studio NX I/O Edition is a limited license that provides selected functions required for EtherNet/IP coupler settings.	1 license	–	SYSMAC-NE001L

^{*1} The same media is used for both the Standard Edition and the Vision Edition.

^{*2} With the Vision Edition, you can use only the setup functions for FQ-M and FH series vision sensors.

^{*3} This product is a license only. You need the Sysmac Studio Standard Edition DVD media to install it.

^{*4} With the Measurement Sensor Edition, you can use only the setup functions for ZW-series displacement sensors.

^{*5} With the NX I/O Edition, you can use only the setup functions for EtherNet/IP coupler.

Note: Site licenses are available for users who will run Sysmac Studio on multiple computers. Ask your OMRON sales representative for details.

Components

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/VE0□□L/ME0□□L/NE0□□L)

Components	Details
License agreement	The license agreement gives the usage conditions and warranty for the Sysmac Studio
License card	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

Included support software

DVD media of Sysmac Studio includes the following support software:

Included support software	Outline
CX-Designer	Ver. 3.□□ The CX-Designer is used to create screens for NS-series PTs
CX-Integrator	Ver. 2.□□ The CX-Integrator is used to set up FA networks
CX-Protocol	Ver. 1.□□ The CX-Protocol is used for protocol macros for serial communications units
Network Configurator	Ver. 3.□□ The Network Configurator is used for tag data links on the built-in EtherNet/IP port
SECS/GEM Configurator ^{*1}	Ver. 1.□□ The SECS/GEM Configurator is used for SECS/GEM settings.

^{*1} Please, purchase the required number of SECS/GEM Configurator licenses.