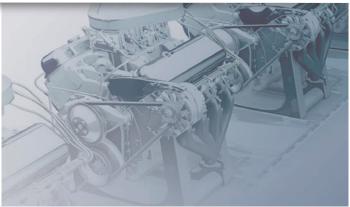


FA Controller Catalog











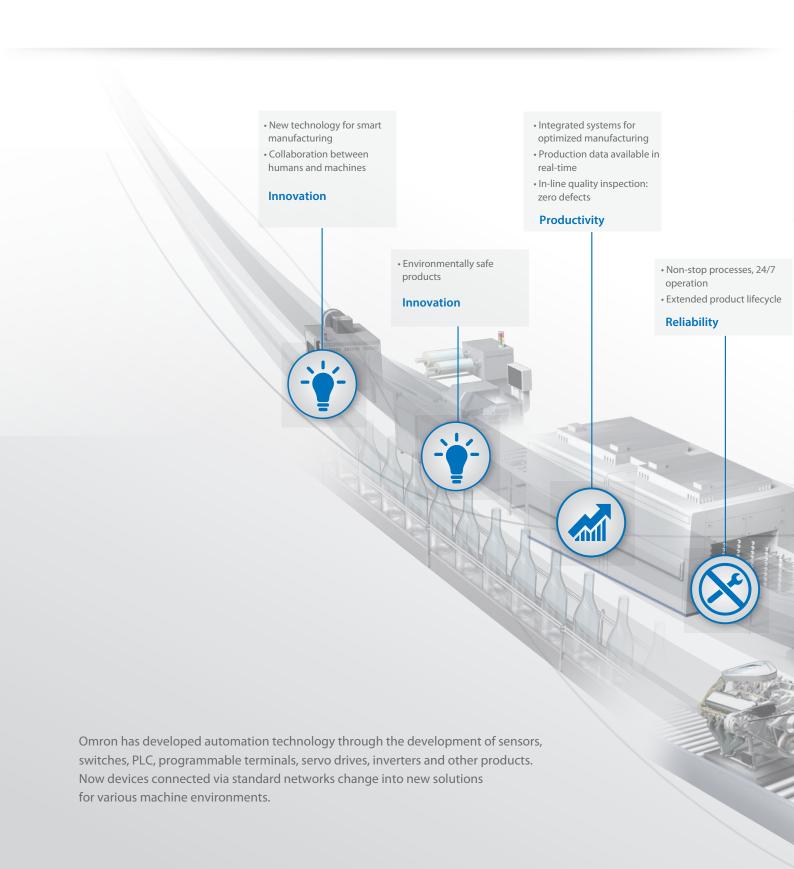






Controllers ideal for all machines

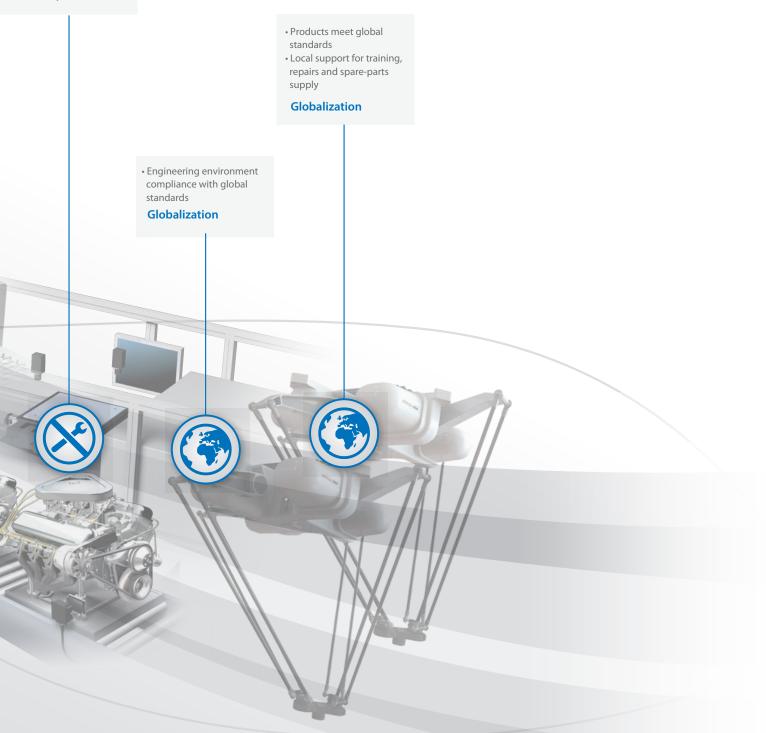
Controllers ideal for all machines



- Quick product changeovers Openness and third party connectivity

 • Scalable systems for
- optimum solutions

Flexibility



Controllers ideal for all machines

The cost-effective CP Series and complete, robust NJ/NX/NY Series support from simple machine control through to large production line control and plant management.

The controllers not only help reduce programming, set-up and maintenance times, but also enable fast and accurate fine-tuning control, quality traceability, predictive maintenance, preventive maintenance, and remote maintenance.



The Machine Automation Controller integrates logic, motion, safety, vision, information, visualization and networking under one software: Sysmac Studio. This one software provides a true Integrated Development Environment (IDE) that also includes a custom 3D motion simulation tool.

The machine controller comes standard with built-in EtherCAT and EtherNet/IP. The two networks with one connection purpose is the perfect match between fast real time machine control and data plant management.





Omron's Industrial PC Platform includes the Industrial Box PC, Industrial Panel PC, and Industrial Monitor.

Choose from four different types of products to suit your system:

- Industrial PC comes equipped with Windows operating systems
- IPC Machine Controller combines the precision and utility of the Sysmac platform with the versatility and range of Windows programs
- IPC RTOS Controller comes equipped with real-time operating systems for realtime control
- IPC Programmable Multi-Axis Controller performs predictable motion control while running intensive data-handling applications





Programmable Multi-Axis Controller

The Programmable Multi-Axis Controller was developed by combining Omron ILO+R+S (Input, Logic, Output, Robot, and Safety) control technology with proven technology from Omron's Delta Tau Data Systems, Inc., delivering world-beating* output speeds allied to exceptional precision.

Providing the high-speed processing capability to perform precise linear motor drive control and nanometer positioning that require ultra fast responses, it is appreciated by manufacturers of semiconductor manufacturing equipment and other products employing leading-edge technologies.





This series supports a wide variety of communication interface including Ether- Net/IP^{TM} .

The FA Integrated Tool Package CX-One makes programming and debugging faster and easier. The PLC is suitable for small to medium machines - from simple stand-alone applications up to networked, high-speed machines. It is built to give you innovation without growing pains.





The CP Series provides a complete product line-up to automate compact machines and perform any other simple automation tasks, quickly and easily. Connect the HMI, servo drives, inverters, temperature controllers and other devices to create a more cost-effective system.



A fully integrated platform









N-Smart Senso

SQL-Database

Information technologies

The Machine Automation Controller integrates logic, motion, safety, vision, information, visualization and networking under one software: Sysmac Studio.

Features

- Complete integration of motion and logic
- A large selection of CPU Units for up to 256 axes
- Fully conforms with IEC 61131-3 standards
- PLCopen Function Blocks for Motion Control
- Linear and circular interpolation
- Electronic gear and cam synchronization
- Integrated Development Environment provided by Sysmac Studio

Standard networks

■ NX102-□□□□ and NJ501-1□00 CPU Units with built-in international standard (IEC 62541) OPC UA communication functionality

■ Built-in EtherCAT and EtherNet/IP ports

- EtherCAT: High-speed network to connect a wide range of machine automation devices such as I/O, sensors and drives. Fast, highly accurate control in synchronization with the EtherCAT cycle. Up to 512
- EtherNet/IP: Based on standard protocols (TCP/IP and UDP/IP). Allows for mixing Ethernet devices and **Ethernet applications**

Safety integration

I Flexible system lets you integrate safety into machine automation through the use of Safety over EtherCAT (FSoE). Sysmac Studio reduces programming time

CPU Unit with advanced functionality

- Database Connection: Logs real-time data from production lines directly into SQL Databases. This enables predictive/preventive maintenance and quality traceability
- Robotics: Controls parallel link robots
- SECS/GEM: Built-in SECS/GEM communications functions
- NC Integrated Controller: Realize high-accuracy synchronization motion control (MC) and numerical control (NC) functions by ONE controller. G-Code available.

NX1P Machine Automation Controller

Advanced motion control and networks for onsite IoT in a compact entry model

■ Built-in I/O. Up to 8 NX Units can be mounted







Make Flexible & Innovative











Ether CAT.













NA Programmable Terminal

EtherNet/IP **Ethernet**

Sysmac Studio

Integrates configuration of the NJ/NX Machine Automation Controller and EtherCAT slaves, programming, debugging, and monitoring



Sysmac Library

■ The Sysmac Library is a collection of software functional components that can be used in programs for the NJ/NX Machine Automation Controllers. Please download it from following URL and install to Sysmac Studio. http://www.ia.omron.com/sysmac_library/



What's new



Compact size controller that integrates production line and IT systems NX1

Fast and accurate control by synchronizing all machine devices with the PLC and Motion Engines

Three built-in industrial Ethernet ports

OPC UA server functionality

■ Up to 12 axes of control via EtherCAT

■ Up to 32 local NX I/O Units

■ Built-in power supply in compact size



NJ/NX Series Controller Catalog

· P089

NX1 Catalog

· P129

NX1P Catalog

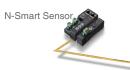
· P115

Openness meets Automation Control









Omron's Industrial PC Platform includes the Industrial Box PC, Industrial Panel PC, and Industrial Monitor. Choose from four different types of products to suit your system.

Features

- Industrial Box PC: Powerful, reliable, scalable
- Industrial Panel PC: Combines the functionality of the Industrial Box PC and Industrial Monitor
- Industrial Monitor: Display and touch interface for the industrial PC platform
- Powerful performance maximize output
- Rock-solid build improve uptime
- Real-time OS inside reliable machine control







Industrial PC

■ Windows IPC. Powerful, reliable, scalable - and tough as they come

IPC Machine Controller

- Combines the precision and utility of the Sysmac platform with the versatility and range of Windows programs
- Automation Software Sysmac Studio: Integrates configuration of the machine automation controller and EtherCAT slaves, programming, debugging, and monitoring
- NC integrated models: Integrate NY-series IPC Machine Controller with Numerical Control (NC) functions.
- Collection of software functional components Sysmac Library: Simplicity for advanced control. Available to download from Omron website and install to the Sysmac Studio http://www.ia.omron.com/sysmac_library/



IPC RTOS Controller

Real-time operating systems. Enables you to program own real-time control of your machine functionality and at the same time executing advanced data processing tasks

IPC Programmable Multi-Axis Controller

 $\blacksquare \ \, \text{Offers exceptionally precise motion control, with proven technology from Omron's Delta Tau Data Systems, Inc.,}$ delivering world-beating*1 output speeds. It comes equipped with Windows real-time operating systems which, combined with powerful control capability, provides exceptional flexibility. It also enables the creation of high-resolution graphics as well as customized applications for high-end production requirements.

What's new



^{*1.} Motion control performance of 16.6 μs/1 axis or 50 μs/8 axes (Omron survey as of July 2016)







Industrial PC Platform Catalog ·P118

NY Series with Intel® Xeon® processor Flyer



High-speed, high-precision motion controller









Industrial PC Platform IPC Programmable Multi-Axis Controller NY51 -A

OMRON and OMRON's Delta Tau Data Systems, Inc. (DT) worked together to develop the multi-axis controllers with global leading motion control technology from DT. The multi-axis controller achieves sophisticated fine-tuning control, including high-speed synchronous control of various factory automation (FA) devices, thanks to built-in EtherCAT connectivity which is used for production lines and equipment all over the world.

Features

- CAD/CAM for easy motion control
- I Flexible function development capability enables high-precision curve machining
- G-Code/ANSI C/original programming language
- EtherCAT for flexible system configuration
- Advanced motion control

CK3M Programmable Multi-Axis Controller

A next generation motion controller CK3M provides PMAC's superior motion control capability, multi-vendor connectivity, and flexible development capability. The modular design allows you to freely combine the CK3M with expansion units to enable a variety of applications.

CK3E Programmable Multi-Axis Controller

■ You can build a system capable of controlling up to 32 axes of motion and incorporate customized control algorithms into the system. The compact design saves space in machines and control panels. EtherCAT® connects servo drives, I/O, and other devices to the CK3E, reducing the number of cables.

Industrial PC Platform IPC Programmable Multi-Axis Controller

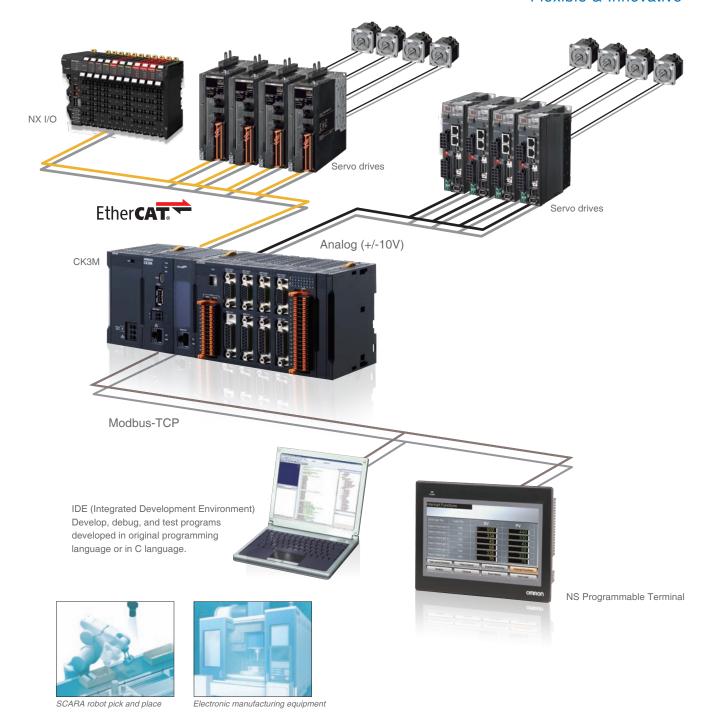
Comes equipped with Windows real-time operating systems which, combined with powerful control capability, provides exceptional flexibility. It also enables the creation of high-resolution graphics as well as customized applications for high-end production requirements.

What's new

Programmable Multi-Axis Controller

The Programmable Multi-Axis Controller has been developed by US-based Delta Tau Data Systems, Inc. to deliver the world's highest level* of motion control performance. Providing the high-speed processing capability to perform precise linear motor drive control and nanometer positioning that require ultra fast responses, the Programmable Multi-Axis Controller is appreciated by manufacturers of semiconductor manufacturing equipment and other products employing leading-edgetechnologies. Through working together with Delta Tau Data Systems which joined the Omron Group on September 1 2015, Omron will further advance automation technologies in an ever-changing manufacturing environment to help manufacturers improve productivity and manufacturing quality.

Make Flexible & Innovative



CK3M Programmable Multi-Axis Controller Catalog

CK3E Programmable Multi-Axis Controller Flyer

Industrial PC Platform Catalog

PMAC Series Catalog

R192



A wide range of PLC and I/O brings innovation to your machines and reduces costs

Faster and larger networks, a wide variety of communication interfaces







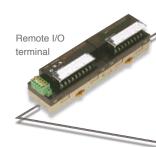
The PLC is suitable for small to medium machines - from simple stand-alone applications up to networked, high-speed machines. It is built to give you innovation without growing pains.

Features

- Supports open networks including EtherNet/IP, EtherCAT, FL-net, DeviceNet and CompoNet
- Efficient programming with variables and EtherNet/IP setting with variable names make the configuration more flexible
- A wide range of CPU units and I/O units to suit your needs



Temperature controller



Device Net CompoNet[®]

Open to the world

- Data communication via standard Ethernet port with EtherNet/IP Data Link function
- Increased EtherNet/IP performance to 12,000 pps*1
- High-speed I/O link based on EtherCAT enables distributed control using multiple CPU units

Advanced motion control

- Multi-axes synchronous control
- Can replace expensive motion controllers

■ Faster program execution and immediate I/O refreshing for flexible machine control

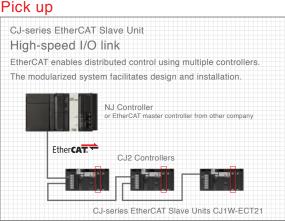
Highly flexible

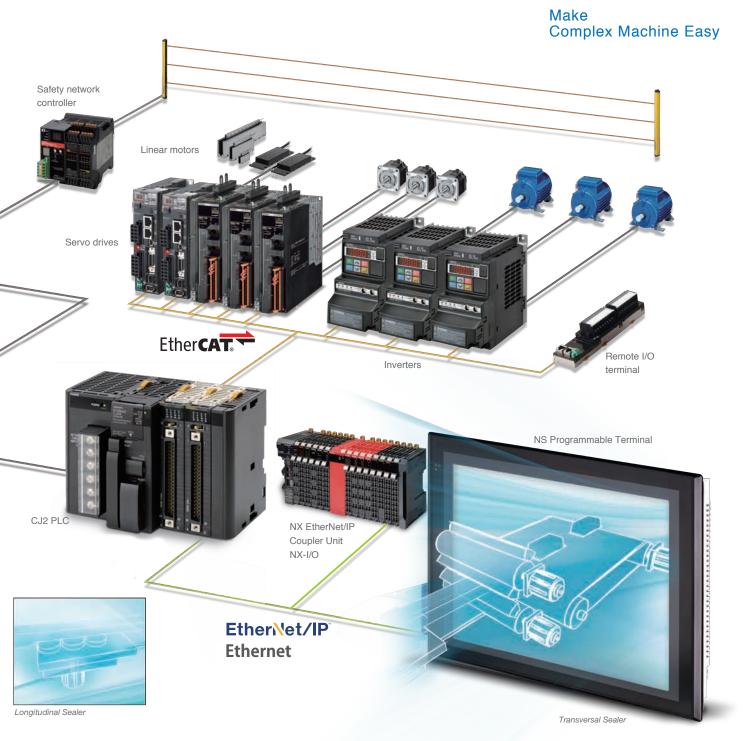
Adapt the PLC unit to your needs with the wide variety of compatible CJ1 I/O Units

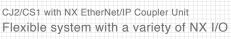


Main conveyor

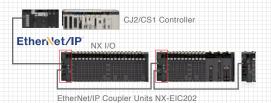








Flexible distributed I/O system can be built using NX I/O in the CJ2/CS1 system. This allows you to save space and to flexibly respond to changes in machine specifications.



CS/CJ/CP-series CPU Unit

16-character password to keep your assets secure

The number of characters in each password for UM read protection and task read protection is increased from 8 to 16. This improves the security of your design assets.





CJ2 Catalog ·P059

CS1 Catalog ·P047

More cost-effective automation for compact machines

Simple, Compact, Economical





The CP Series provides a complete product line-up to automate compact machines and perform any other simple automation tasks, quickly and easily.

Features

■ 10 to 60 I/O base models, expandable to 320 I/O points

Digital, analog and temperature sensor I/O expansion units

Up to 4 high-speed pulse outputs and up to 4 high-speed counter inputs

Excellent communication capabilities for both serial and Ethernet networking Powerful instructions common within the CJ Series

Easy positioning, quick results

■ Easy control: Speed control, positioning, origin search and interrupt feeding

■ Modbus Master feature for easy inverter control

Saving programming time

Ladder diagram, Function Blocks or Structured Text programming

Versatile communication

■ USB or Ethernet port*1 – no special cables needed

■ Communication with Temperature Controller E5

C without special programs

■ Optional boards for RS-232C, RS-485 or Ethernet*2

More options - greater possibilities!

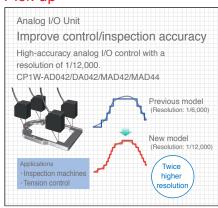
■ Analog I/O unit with a resolution of 1/12,000 for high-accuracy inspections

One multi-input unit for both temperature and analog control of a packaging machine or molding machine

Analog option boards helps save space



Pick up

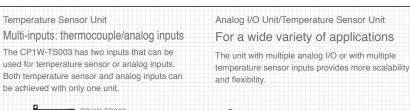


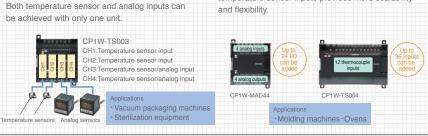
^{*1.} CP2E and CP1L-EM/EL only

^{*2.} CP1H/CP1L only

Make Complex Machine Easy









CP Catalog · P082

CP2E Pamphlet ·P144

Controllers Selection

Omron offers a wide range of FA Controllers to suit your automation applications - from simple control to complex, highly accurate control.

N	J/NX ser	ies						
Serie	Series			NX Series				
Prod	uct name		NX701 CPU Units	NX102 CPU Units	NX1P2 CPU Units			
Mod	Model		NX701-□□□□	NX102-□□□	NX1P2 -□□□□			
Appearance								
	CPU Unit features		Ideal for large-scale, fast, and highly-accurate control with up to 256 axes	Compact controller with up to 8 axes motion control.	Compact package-type machine automation controller			
	Support software		Sysmac Studio					
	Instruction execution times	LD instructions	0.37 ns or more	3.3 ns	3.3 ns			
Spec		Math instructions (for long real data)	3.2 ns or more	70 ns or more	70 ns or more			
offica	Program ca	pacity	80 MB	5 MB	1.5 MB			
Specifications	Variables ca	apacity	4 MB: Retained during power interruptions 256 MB: Not retained during power interruptions	4 MB: Retained during power interruptions 256 MB: Not retained during power interruptions	32 KB: Retained during power interruptions 2 MB: Not retained during power interruptions			
	I/O capacity / maximum number of configuration Units (Expansion Racks)			Up to 32 NX I/O Units connectable	Built-in I/O: 40 points max. Up to eight NX I/O Units connectable			
	Number of r	notion axes	128, 256	0, 2, 4, 8 *2	0, 2, 4 *2			
	EtherCAT s	aves	512	64	16			
	Number of controlled robots							
Fu	Database co	onnection	Provided (NX701-1□20)	Provided (NX102-□□20)				
Functions	SECS/GEM	communications functions						
Suc	Numerical C	Control (NC) functions						
Ext	ernal memory		Memory Cards					
CJ	Special I/O U	nits and CPU Bus Units						

Industria	al PC Platform			
Product name	Indus	trial PC	IPC Machir	ne Controller
Туре	Industrial Box PC	Industrial Panel PC	Industrial Box PC	Industrial Panel PC
Model	NYB	NYP	NY51□-1	NY53□-1/NY53□-5
Appearance	O .		SQ SQ	
Features	Compact design that offers flexibility, expandability and easy maintenance for applications in factory automation environments	Combines the functionality of the Industrial Box PC and Industrial Monitor	Two operating systems: W	/indows and Real-Time OS
Operating system		ndows 10 IoT Enterprise 2016 LTSB - 64 bit ndows 10 IoT Enterprise 2019 LTSC - 64 bit	Windows Embedded St Windows Embedded St	
Function module			Machine Automation Con Machine Automation Con	
Number of axes			16, 32, 64	
CPU type	Intel® Xeon® E3-1515M v5 Processor 6th generation CPU with Fan Unit for active cooling Intel® Core™ 15-7300U Processor 7th generation CPU with fanless cooling Intel® Celeron® 3985U Processor 7th generation CPU with fanless cooling Intel® Celeron® 3985U Processor 7th generation CPU with Fan Unit for active cooling Intel® Core™ I7-4700EQ Processor 4th generation CPU with Fan Unit for active cooling I161® Celeron® 2980U Processor 4th generation CPU with fanless cooling '3 Intel® Celeron® 2980U Processor 4th generation CPU with fanless cooling '3 Intel® Atom® Apollo Lake x5-E3940 Processor	Intel® Core™ i5-7300U Processor 7th generation CPU with fanless cooling Intel® Celeron® 3965U Processor 7th generation CPU with fanless cooling Intel® Core™ i7-4700EQ Processor 4th generation CPU with Fan Unit for active cooling Intel® Core™ i5-4300U Processor 4th generation CPU with fanless cooling *3 Intel® Core™ 2980U Processor 4th generation CPU with fanless cooling *3 Intel® Atom® Apollo Lake x5-E3940 Processor	Intel [®] Core [™] i7-4700EQ P with Fan Unit for active coo	Processor 4th generation CPU
RAM memory	8GB, 16GB, 32GB (ECC supported) *1 2GB, 4GB, 8GB, 16GB (non ECC)		8 GB (non-ECC type)	
Storage	HDD, SSD, CFast, SD memory card		HDD, SSD, SD memor	y card
Display size		12.1 inches, 15.4 inches, 18.5 inches		12.1 inches, 15.4 inches
Built-in ports	Ethernet, USB 2.0/3.0, DVI			therCAT, USB 2.0/3.0, DVI
Interface option	RS-232C, DVI-D, NY Monitor Link, GigE LAN	RS-232C, DVI-D, NY Monitor Link	RS-232C, DVI-D, NY N	Monitor Link
	4.501		1 DCIa alat	

1 PCle slot

Expansion slots 1 PCle slot

Note. Not all combination are possible, please visit the product selector on the global website to make your selection.

*1. Only for models with Intel® Xeon® Processor.

*2. For the 32 bit version, consult your OMRON sales representative. *3. Not recommended for new projects.

				NJ Series			
		NJ501 CPU Units			NJ301 CPU Units	NJ101 C	PU Units
NJ501-1□□□	NJ501-4□□□	NJ501-1□20	NJ501-1340	NJ501-5300	NJ301-1□□□	NJ101-□□□□	NJ101-□□2
Ideal for large-sca	ale, fast, and highly-accu	rate control with up to	64 axes		Ideal for small-scale control with up to eight axes	Ideal for simple mach	iines
Sysmac Studio					Sysmac Studio	Sysmac Studio	
1.1 ns (1.7 ns o	r less)				1.6 ns (2.5 ns or less)	3.0 ns (4.5 ns or less)	
24 ns or more					35 ns or more	63 ns or more	
20 MB					5 MB	3 MB	
	during power interrup ned during power inter				0.5 MB: Retained during power interruptions 2 MB: Not retained during power interruptions		
2,560 points/40 (3 Expansion R					2,560 points/40 Units (3 Expansion Racks)	·	
16, 32, 64			16	16 *4	4, 8	0, 2	
192					192	64	
	8 robots max. *3						
	Provided (NJ501-4320)	Provided					Provided
		·	Provided				
				Provided			
Memory Cards							
Mountable *5							
*1 Available by ruppi	na vour application on W	lindows		*4	The number of centrolled avec of t	ho MC Control Eupotion N	Andula is included

- *1. Available by running your application on Windows
 *2. Motion control axes and 4 single-axis position control axes.
 *3. The number of robots that can be controlled depends on the number of axes used in the system.
- *4. The number of controlled axes of the MC Control Function Module is included. *5. For the details of mountable Units, refer to the user's manuals.

IPC Programmable Multi Axis Controller
Industrial Box PC
NY51 □-A
O TOTAL STATE OF THE PARTY OF T
Provides flexibility in the creation of high-resolution graphics and applications and the development of motion control for high-end applications
Windows Embedded Standard 7 - 32 bit Windows Embedded Standard 7 - 64 bit
Programmable Multi Axis Controller
128

Intel®	Core™	i7-4700EQ	Processor	4th	generation
CPU v	vith Fan	Unit for activ	ve cooling		

8 GB (non-ECC type)
SSD, SD memory card
Ethernet, EtherCAT, USB 2.0/3.0, DVI
RS-232C
1 PCIe slot

Product name		Industrial Monitor			
Model	NYM12	NYM15	NYM19		
Appearance	70 m				
Description	Display and touch interface for the In	dustrial PC Platform			
Display device	TFT LCD				
Screen size	12.1 inches	15.4 inches	18.5 inches *		
Resolution	Up to 1,280 x 800 pixels at 60 Hz	z	Up to 1,920 x 1,080 pixels at 60 Hz		
Colors	16,770,000 colors				
Connectors	1 Power Connector, 1 DVI-D Connector, 2 USB Type-A Connector, 1 USB Type-B Connector				
Built-in options	NY Monitor Link				
Allowable power supply voltage range	19.2 to 28.8 VDC				

^{* 18.5} also available with Nickel Plated front.

Series	CK3M Series	
Model	CK3M	
Appearance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Features	Controls analog servo drives at high speeds of up to 50 µs/5 axes, enabling high-precision processing	
Support software	Power PMAC IDE	
Memory	RAM: 1 GB, Built-In flash memory: 1 GB	
Built-in ports	Ethernet, EtherCAT, USB	
Number of motion axes	24 (4 axes/axial interface unit x 4 units: 16, EtherCAT: 8)	
Number of EtherCAT slaves	32	

Series	CK3E Series
Model	CK3E
Appearance	
Features	You can build a system capable of controlling up to 32 axes of motion and incorporate customized control algorithms into the system.
Support software	Power PMAC IDE
Memory	DDR3 memory: 1GB, Flash memory: 1GB
Built-in ports	Ethernet, EtherCAT
Number of motion axes	8, 16 or 32
Number of EtherCAT slaves	32

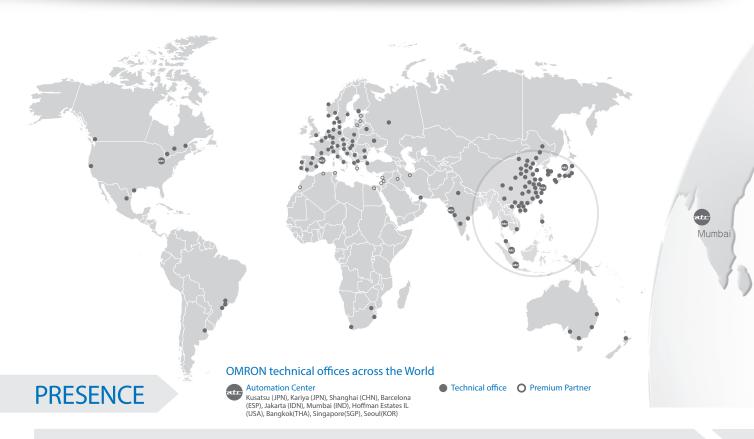
Series			Series		Series
Model		CJ2H	CJ2M	CS1H/G	CS1D
Appearance					
CPU Unit features *1		A large data memory capacity, multi-func- tion Ethernet port, tag access function- ality, and a USB port. Ideal for high-speed, high-precision machines	Based on the long track record of the CJ1M and adds greater cost performance and flexibility. Ideal for general-purpose machine control	From machine control to informa- tion management multiple-appli- cation Controllers with a wide range of functions	Redundant CPU Units, Power Supply Units, Communications Units, and Expansion I/O Cables
		High-speed I/O Units, synchronized control, USB port, built-in Ether-Net/IP port, data structures and arrays, Function Blocks (Ladder diagrams/Structured Text)	High-speed I/O Units, USB port, built-in EtherNet/IP port, data struc- tures and arrays, FB Program Area, Function Blocks (Ladder diagrams/- Structured Text), Serial Communica- tions Option Boards	Up to 5,120 points of I/O, Inner Board capability, Function Blocks (Ladder dia- grams/Structured Text)	Up to 5,120 points of I/O, redundant CPU Units and Power Supply Units, Inner Board capability
Support	software	CX-One	CX-One	CX-One	CX-One
	on execution times nstructions)	0.016 μs	0.04 μs	CS1G: 0.04 μs CS1H: 0.02 μs	0.02 μs
Max. no	. of I/O points	2,560	2,560	960 to 5,120	960 to 5,120
Program	n capacity	50K to 400K steps	5K to 60K steps	10K to 250K steps	10K to 400K steps
Data me	emory capacity	160K to 832K words	64K to 160K words	64K to 448K words (EM Area: 1 to 13 banks)	64K to 832K words (EM Area: 1 to 25 banks)
	Built-in I/O		32 points *2		
Built-in	Interrupt inputs		8 inputs *2		
features	High-speed counter		4 inputs *2		
	Pulse outputs *1		4 outputs *2	_	
Externa	I memory	Memory Cards	Memory Cards	Memory Cards	Memory Cards
	cial I/O Units U Bus Units	Mountable	Mountable	Mountable (units for CS series)	Mountable (units for CS series)

^{*1.} These features are not supported by all of the CPU Unit models in the relevant series. Refer to specific product catalogs for details.
*2. Applicable when a Pulse I/O Block is mounted.

Series			CP Series	
Model		CP1H	CP1L	CP2E
Appearance				minumo
CPU Unit features *		Four axis position control and compre- hensive model	High performing model with embedded Ethernet for two axis position control	A network model equipped with an Ethernet port and an essential model for basic control are available.
		Pulse outputs for up to 4 axes, CP1W Expansion Units can be mounted, easy Modbus-RTU, Serial Communications Option Boards, Ethernet Option Board, CJ-series Special I/O Units and CPU Bus Units can be mounted, Function Blocks (Ladder diagrams/Structured Text), LCD Option Board, analog adjuster, seven-segment LED display (2 digits)	Pulse outputs for up to 2 axes, models with USB port, models with Ethernet communications port, CP1W Expansion Units can be mounted, easy Modbus-RTU, Serial Communications Option Boards, Ethernet Option Board, Function Blocks (Ladder diagrams/Structured Text), LCD Option Board, analog adjuster, Analog I/O Option Boards	Pulse outputs for up to 4 axes, models with 2 Ethernet ports, models with RS-232C ports, CP1W Expansion Units can be mounted, easy Modbus-RTU, Function Blocks (Ladder diagrams/Structured Text), Analog I/O Option Boards
Support	t software	CX-One	CX-One	CX-One
	ion execution times instructions)	0.10 μs	0.55 μs	0.23 μs
Max. no	o. of I/O points	320 points (40 built in + 280 expansion)	180 points (60 built in + 120 expansion)	180 points (60 built in + 120 expansion)
Progran	n capacity	20K steps	5K or 10K steps	4K to 10K steps
Data me	emory capacity	32K words	10K or 32K words	4K to 16K words
	Built-in I/O	20 or 40 points	10 to 60 points	14 to 60 points
Built-in	Interrupt inputs	6 or 8 inputs	2, 4 or 6 inputs	6 or 8 inputs
features	High-speed counter	4 inputs	4 inputs	2 inputs
	Pulse outputs *	4 outputs	2 outputs	2 or 4 outputs
Externa	l memory	Memory Cassettes	Memory Cassettes	
C I Cassiel I/O I Inite		Mountable	_	_

^{*} These features are not supported by all of the CPU Unit models in the relevant series. Refer to specific product catalogs for details.

Service and support



COMPETENCE



Design

Our wi de net work of machine automation specialists will help you to select the right automation architecture and products to meet your requirements. Our flat structure based on expert-to-expert contact ensures that you will have ONE accountable and responsible expert to deal with on your complete project.



Proof of concept

As your project matures make use of our Automation centers to test and catch-up with technology trends in motion, robotics, networking, safety, quality control etc. and to interface, test and validate your complete system with our new machine network (EtherCAT) and factory network (EtherNet/IP).

We will assign a dedicated application engineer to assist with initial programming and proof testing of the critical aspects of your automation system. Our application engineers have indepth expertise in and knowledge of networks, PLCs, motion, safety and HMIs when applied to machine automation.

CONFIDENCE

Development

During your prototyping phase you will need flexibility in technical support, product supply and exchange. We will assign an inside sales contact to help you source the correct products fast during your prototyping phase.



Commissioning

With our world-wide network for service and support the export of your product is made simple, we will support you on-site with your customer, anywhere in the world. We can arrange a liaison sales engineer to facilitate training, spare parts supply or even machine commissioning. All this in a localised language with localised documentation - giving you complete peace of mind.

ASSURANCE



Serial production

As your production increases we will engage in supplying you within 24hrs and repairing within 3 days. All our products are global products meeting global standards - CE, cULus, NK, LR -

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