








Product name	Specifications	Number of licenses	Media	Model	Standards
CX-Programmer for CP1E	PLC Support Software (CP1E Only) The Smart Input function is provided. OS: Windows 2000 (Service Pack 3 or higher), XP, or Vista Applicable models: CP1E	1 license	CD	WS02-CXPC3 NEW	—
CX-One FA Integrated Tool Package Ver.3. 	CX-One is a package that integrates the Support Software for OMRON PLCs and components. CX-One runs on the following OS. OS: Windows 2000(Service Pack3 or higher),XP, or Vista CX-One Ver. 3.  includes CX-Programmer Ver. 8.  For details, refer to the CX-One catalog (Cat. No. R134).	1 license* 1	CD	CXONE-AL01C-V3 Available Soon *5	—
			DVD*2	CXONE-AL01D-V3 Available Soon *5	
		CX-Programmer can still be ordered individually in the following model number.			
CX-Programmer Ver.8. 	PLC Support Software OS: Windows 2000 (Service Pack 3 or higher), XP, or Vista	1 license* 3	CD	WS02-CXPC1-V8 Available Soon	—
FA Integrated Tool Package CX-One Lite Ver. 3. 	CX-One Lite runs on the following OS. Windows 2000(Service Pack 3 or higher), XP, or Vista CX-One Lite is a subset of the complete CX-One package that provides only the Support Software required for micro PLC applications.*4 Applicable models: CP1  , CPM  , SRM1	1 license	CD	CXONE-LT01C-V3 Available Soon *5	—

Note : The Smart Input function is provided only by CX-Programmer for CP1E.

*1. Site licenses are available for the CX-One (3, 10, 30 or 50 licenses).

*2. When purchasing the DVD format, verify the computer model and DVD drive specifications before purchasing.

*3. Site licenses are available for the CX-Programmer (3 or 10 licenses).

*4. CX-One Lite provides the following Support Software: CX-Programmer Ver. 8. □ (micro PLCs only), CX-Integrator Ver. 2. □, CX-Simulator Ver. 1. □,CX-Designer Ver. 3. □,

CX-Protocol Ver. 1. □, CX-Thermo Ver.4.□, Switch Box Utility Ver.1. □, CX-Drive Ver1. □, and CX-ConfiguratorFDT Ver.1.□

*5. CX-Programmer Ver.8.2 or higher is required for CP1E PLCs. CX-Programmer version 8.2 is available via a CX-One V3 auto update.

For details, refer to the CP1E Data Sheet (Cat. No. P061).

- The application examples provided in this catalog are for reference only. Check functions and safety of the equipment before use.
- Never use the products for any application requiring special safety requirements, such as nuclear energy control systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, or other application involving serious risk to life or property, without ensuring that the system as a whole has been designed to address the risks, and that the OMRON products are properly rated and installed for the intended use within the overall equipment or system.

Warranty and Limitations of Liability

WARRANTY
OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

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Note: Do not use this document to operate the Unit.

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SYSMAC CP1E

Package PLCs with Exceptional Cost



» Easy
» Economy
» Efficient

realizing

Cost-Effective, Easy Application, Application to Many Systems

Economy

Exceptional Cost

Responding to Global Competition with More Device Control Possibilities

The CP1E all-in-one package PLCs provide high cost performance to further reduce costs by allowing you to select the optimal CPU Unit from the E-type Basic Models or N-type Application Models.



E-type

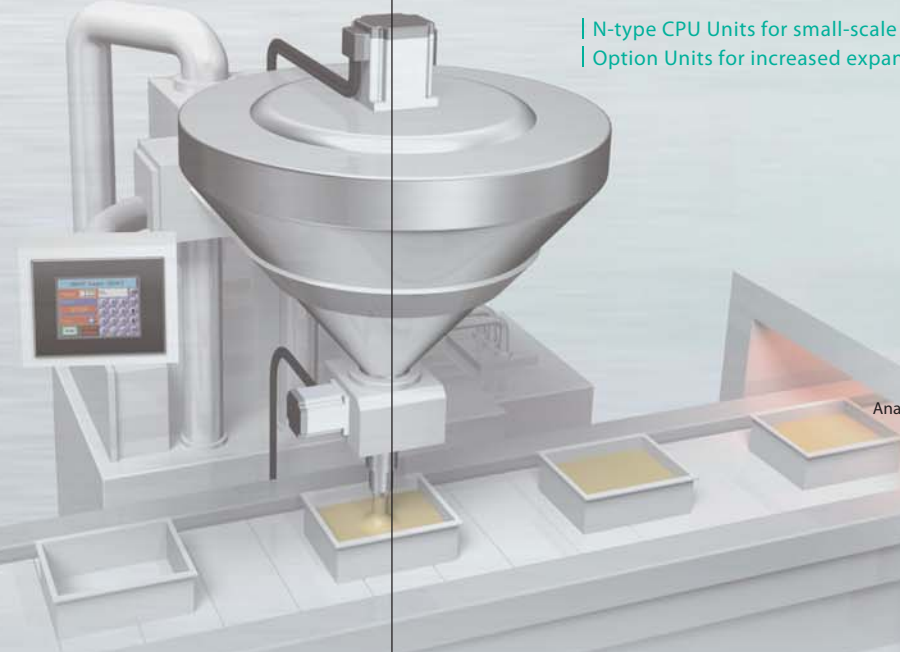
The Basic Models provide cost performance and easy application.

The optimal cost can be achieved efficiently with two types CP1E CPU Units.

Program capacity	N-type CP1E CPU Units			Application Models		
	8K steps	8K steps	8K steps	8K steps	8K steps	8K steps
	CP1E-N20D	CP1E-N30D	CP1E-N40D			
	20	30	40			
Program capacity	E-type CP1E CPU Units			Basic Models		
	2K steps	2K steps	2K steps	2K steps	2K steps	2K steps
	CP1E-E20DR-A	CP1E-E30DR-A	CP1E-E40DR-A			
	20	30	40			
	Number of I/O points					



N-type CPU Units for small-scale systems.
Option Units for increased expandability.



N-type

Compatible with small Programmable Terminals and inverter-controlled position control.

Simple and User Friendly

Intuitive control with “Smart Input.”
Visual decision making is supported with the display of terminal locations.

Easy

Easy Ladder Programming with “Smart Input.”

Easy Input Editor

Instruction and Address Input Assist Functions
When you begin typing an instruction from the keyboard in Ladder Editor Mode, suggested instructions are displayed and the addresses are automatically entered. Connecting lines are added automatically based on the cursor position, enabling intuitive ladder programming.

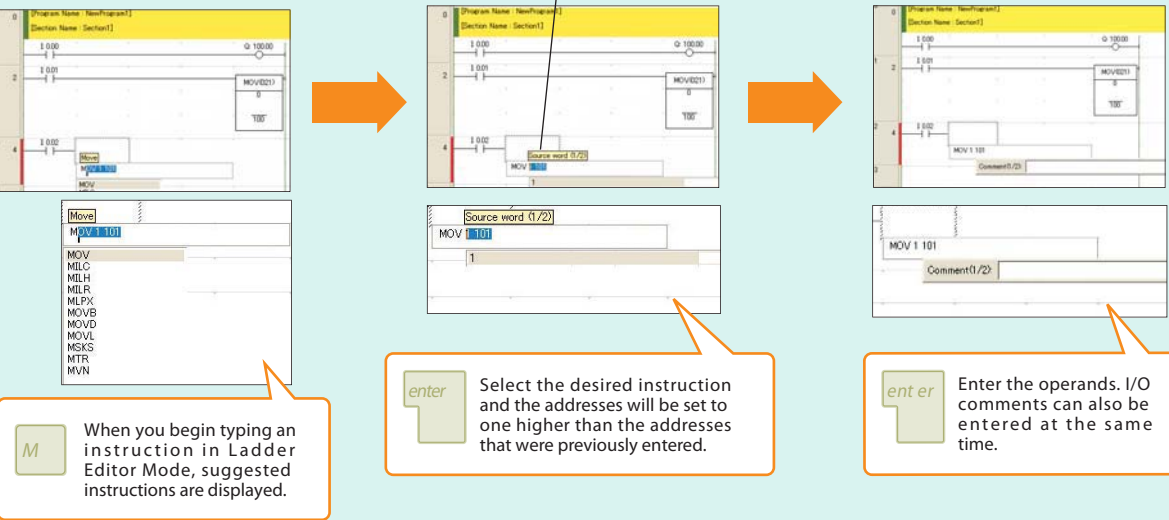
Ladder Programming
30% Faster

Note. In the case of program capacity 1.5 Ksteps

■ Easy Input Editor with Smart Input Function

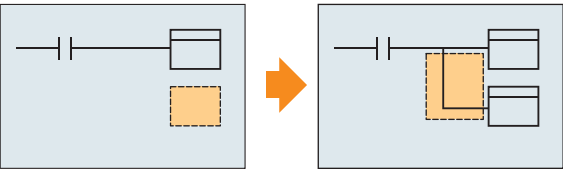
When you begin typing an instruction in Ladder Editor Mode, suggested instructions are displayed.

Smart Input Function

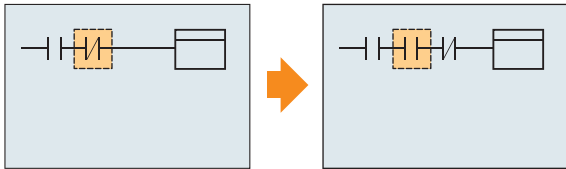


User-friendly Ladder Program Input

Automatic Connecting Line Insertion
With the automatic connecting line insertion function the necessary connection is added automatically based on the cursor position.



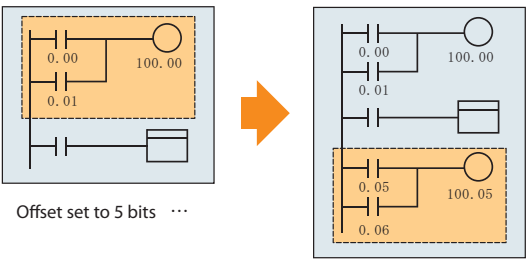
Automatic Column Insertion When Inserting Instructions
The column is automatically inserted when an instruction is added even if the cursor is above another instruction.



Easily Reuse Ladder Programming

Copying with Address Incrementing

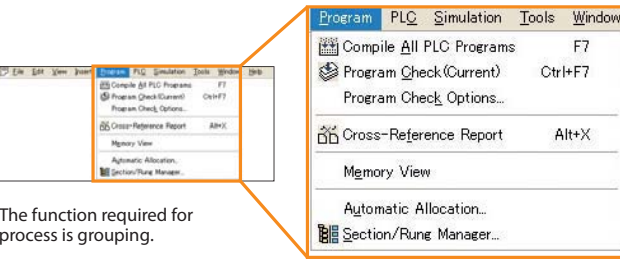
To create the same group of ladder instructions more than once, with the address addition copy function, the instructions can be reused simply by inputting an address offset.



Intuitive Menu Structure

Intuitive Menu Display

An intuitively designed menu structure makes it easy to see the overall system simply by looking at the menu for smooth operation without referring to a manual.



Commercially Available USB Cables Can Be Connected

CP1E CPU Units use USB for the peripheral port. Computers can be connected using commercially available USB cables. Without the need for USB conversion cables or special cables, connection is easier and cable cost is low.



I/O Status at a Glance

The terminal layout display features I/O indicators. The indicators are in the same position as the terminals to let you see the I/O status at a glance. You can easily identify I/O status or perform status checks at startup or during operation.



Efficient and Effective

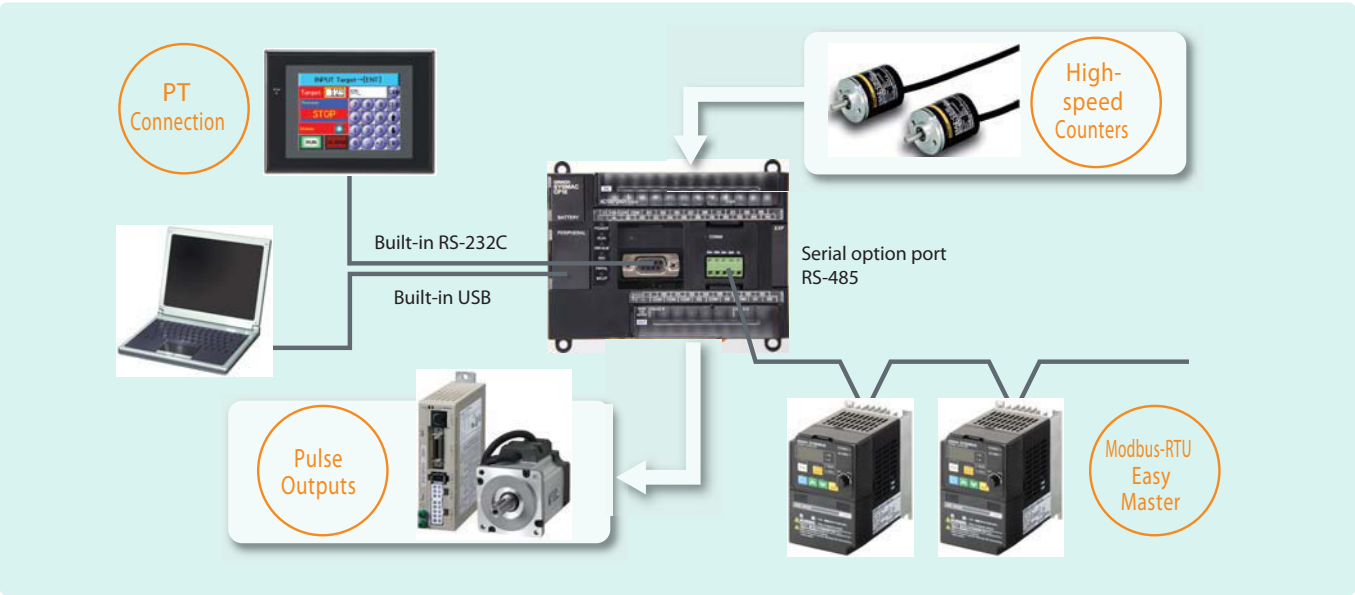
Flexibly handle even small-scale systems.
Various Option Units available for
increased expandability.

Efficient

More Applications with Advanced Control Capabilities and Functionality

N-type only

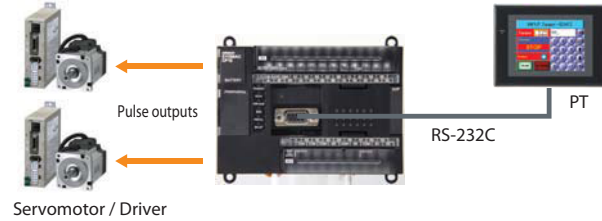
The CP1E N-type CPU Units are equipped with high-speed counters, pulse outputs, and a built-in serial port. These features enable controlling a wide range of devices.



Pulse Outputs

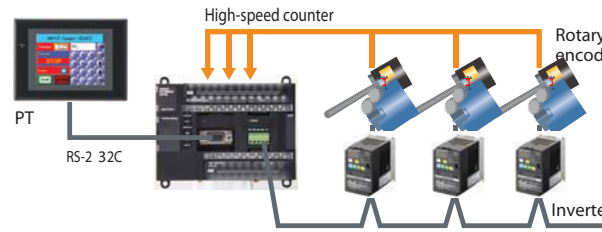
Available Soon

Two 100kHz pulse outputs for high-precision position control.
Note : Models with transistor outputs.



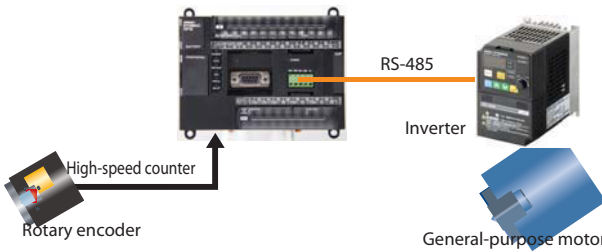
High-speed Counters

Control multiple axes with one PLC using the two 100kHz and four 10kHz, single-phase high-speed counters.



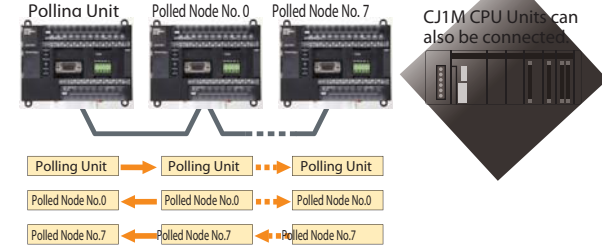
Modbus-RTU Easy Master

Specify Inverter speeds via RS-485.



Serial PLC Links

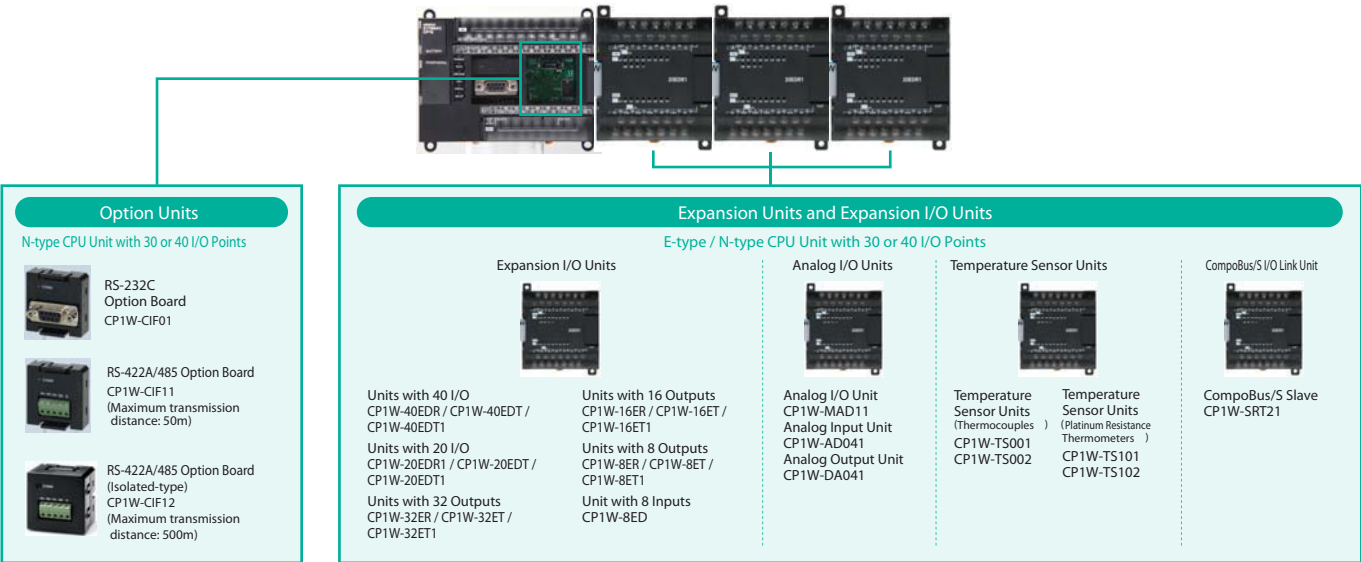
Link data with up to 10 words between up to nine CP1E-N CPU Units when controlling a device with multiple CP1E-N PLCs.



More Applications with Option Units

Three expansion units / expansion I/O units can be added to a cpu unit with 30 or 40 I/O points.

A serial option board can be added to N-type CPU Unit with 30 or 40 I/O points.



Ordering information

International Standards • The standards are abbreviated as follows: U: UL, U1: UL(Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, and CE: EC Directives. • Contact your OMRON representative for further details and applicable conditions for these standards.

E-type CP1E CPU Units (Basic models)

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
E-type with 20 I/O Points	100 to 240 VAC	12	8	Relay	2K steps	2K words	CP1E-E20DR-A NEW	CE
E-type with 30 I/O Points		18	12	Relay			CP1E-E30DR-A NEW	
-type with 40 I/O Points		24	16	Relay			CP1E-E40DR-A NEW	

Note: There are no accessories included with E-type CP1E CPU Units. A Battery (CP1W-BAT01) cannot be used.

N-type CP1E CPU Units (Application models)

Product name	Specifications						Model	Standards
	Power Supply	Inputs	Outputs	Output type	Program capacity	Data memory capacity		
N-type with 20 I/O Points	100 to 240 VAC	12	8	Relay	8K steps	8K words	CP1E-N20DR-A NEW	CE
				Transistor (sinking)			CP1E-N20DT-A Available Soon	
				Transistor (sourcing)			CP1E-N20DT1-A Available Soon	
	24 VDC			Relay			CP1E-N20DR-D Available Soon	
				Transistor (sinking)			CP1E-N20DT-D Available Soon	
				Transistor (sourcing)			CP1E-N20DT1-D Available Soon	
N-type with 30 I/O Points	100 to 240 VAC	18	12	Relay	8K steps	8K words	CP1E-N30DR-A NEW	CE
				Transistor (sinking)			CP1E-N30DT-A Available Soon	
				Transistor (sourcing)			CP1E-N30DT1-A Available Soon	
	24 VDC			Relay			CP1E-N30DR-D Available Soon	
				Transistor (sinking)			CP1E-N30DT-D Available Soon	
				Transistor (sourcing)			CP1E-N30DT1-D Available Soon	
N-type with 40 I/O Points	100 to 240 VAC	24	16	Relay	8K steps	8K words	CP1E-N40DR-A NEW	CE
				Transistor (sinking)			CP1E-N40DT-A Available Soon	
				Transistor (sourcing)			CP1E-N40DT1-A Available Soon	
	24 VDC			Relay			CP1E-N40DR-D Available Soon	
				Transistor (sinking)			CP1E-N40DT-D Available Soon	
				Transistor (sourcing)			CP1E-N40DT1-D Available Soon	
Battery Set	For N-type CP1E CPU Units Note: Mount a Battery to an N-type CP1E CPU Unit if the data in the following areas must be backed up for power interruptions. •DM Area (D) (except backed up words in the DM Area), Holding Area (H), Counter Completion Flags (C), Counter Present Values (C), Auxiliary Area (A), and Clock Function.(Use batteries within two years of manufacture.)						CP1W-BAT01 NEW	CE

Note: There are no accessories included with N-type CP1E CPU Units. RS-232C connectors for the built-in RS-232C port and the Battery (CP1W-BAT01) are not included.



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