

CP1L

Model Number Structure

■ Model Number Legend(Not all models that can be represented with the model number legend can necessarily be produced.)

CP1L-□□□**D**□-□
 (1) (2) (3) (4) (5)

- | | | |
|---|--|---|
| <p>1. Expansion capability
 E : Ethernet port
 None : -</p> <p>2. Program capacity
 M : 10K steps
 L : 5K steps</p> | <p>3. Number of Built-In number I/O points
 60 : 60 I/O points
 40 : 40 I/O points
 30 : 30 I/O points
 20 : 20 I/O points
 14 : 14 I/O points
 10 : 10 I/O points</p> | <p>4. Output classification
 R : Relay outputs
 T : Transistor Outputs (sinking)
 T1 : Transistor Outputs (sourcing)</p> <p>5. Power supply
 A : AC
 D : DC</p> |
|---|--|---|

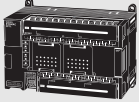
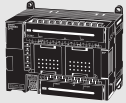
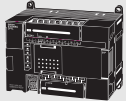
Ordering Information

Applicable standards

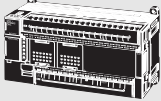
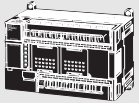
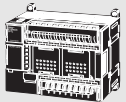
Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

■ CPU Units

Built-in Ethernet port

CPU Unit	Specifications					Model
	CPU type	Power supply	Output method	Inputs	Outputs	
CP1L-EM CPU Units with 40 Points 	Memory capacity: 10K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	DC power supply	Relay output	24	16	CP1L-EM40DR-D
			Transistor output (sinking)			CP1L-EM40DT-D
			Transistor output (sourcing)			CP1L-EM40DT1-D
CP1L-EM CPU Units with 30 Points 	Memory capacity: 10K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	DC power supply	Relay output	18	12	CP1L-EM30DR-D
			Transistor output (sinking)			CP1L-EM30DT-D
			Transistor output (sourcing)			CP1L-EM30DT1-D
CP1L-EL CPU Units with 20 Points 	Memory capacity: 5K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	DC power supply	Relay output	12	8	CP1L-EL20DR-D
			Transistor output (sinking)			CP1L-EL20DT-D
			Transistor output (sourcing)			CP1L-EL20DT1-D




Built-in USB port

CPU Unit	Specifications					Model
	CPU type	Power supply	Output method	Inputs	Outputs	
CP1L-M CPU Units with 60 Points 	Memory capacity: 10K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	AC power supply	Relay output	36	24	CP1L-M60DR-A
			Transistor output (sinking)			CP1L-M60DT-A
		DC power supply	Relay output			CP1L-M60DR-D
			Transistor output (sinking)			CP1L-M60DT-D
			Transistor output (sourcing)			CP1L-M60DT1-D
CP1L-M CPU Units with 40 Points 	Memory capacity: 10K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	AC power supply	Relay output	24	16	CP1L-M40DR-A
			Transistor output (sinking)			CP1L-M40DT-A
		DC power supply	Relay output			CP1L-M40DR-D
			Transistor output (sinking)			CP1L-M40DT-D
			Transistor output (sourcing)			CP1L-M40DT1-D
CP1L-M CPU Units with 30 Points 	Memory capacity: 10K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	AC power supply	Relay output	18	12	CP1L-M30DR-A
			Transistor output (sinking)			CP1L-M30DT-A
		DC power supply	Relay output			CP1L-M30DR-D
			Transistor output (sinking)			CP1L-M30DT-D
			Transistor output (sourcing)			CP1L-M30DT1-D

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CPU Unit	Specifications					Model
	CPU type	Power supply	Output method	Inputs	Outputs	
CP1L-L CPU Units with 20 Points 	Memory capacity: 5K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	AC power supply	Relay output	12	8	CP1L-L20DR-A
			Transistor output (sinking)			CP1L-L20DT-A
		DC power supply	Relay output			CP1L-L20DR-D
			Transistor output (sinking)			CP1L-L20DT-D
			Transistor output (sourcing)			CP1L-L20DT1-D
CP1L-L CPU Units with 14 Points 	Memory capacity: 5K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	AC power supply	Relay output	8	6	CP1L-L14DR-A
			Transistor output (sinking)			CP1L-L14DT-A
		DC power supply	Relay output			CP1L-L14DR-D
			Transistor output (sinking)			CP1L-L14DT-D
			Transistor output (sourcing)			CP1L-L14DT1-D
CP1L-L CPU Units with 10 Point 	Memory capacity: 5K steps High-speed counters: 100 kHz, 4 axes Pulse outputs: 100 kHz, 2 axes (Models with transistor outputs only)	AC power supply	Relay output	6	4	CP1L-L10DR-A
			Transistor output (sinking)			CP1L-L10DT-A
		DC power supply	Relay output			CP1L-L10DR-D
			Transistor output (sinking)			CP1L-L10DT-D
			Transistor output (sourcing)			CP1L-L10DT1-D

Note: 1. Refer to "Models and Software Versions" about supported software.
 2. Refer to "Option Unit Specifications" about supported Option Units.

■ Options for CPU Units

Name	Specifications	Model
RS-232C Option Board 	Can be mounted in either CPU Unit Option Board slot 1 or 2. *1	CP1W-CIF01
RS-422A/485 Option Board 		CP1W-CIF11
RS-422A/485 (Isolated-type) Option Board 		CP1W-CIF12-V1
Ethernet Option Board 	Can be mounted in either CPU Unit Option Board slot 1 or 2. *1 *2 *4	CP1W-CIF41
Analog Input Option Board 	Can be mounted in either CPU Unit Option Board slot 1 or 2. *3 2 analog inputs. 0-10V(Resolution:1/4000), 0-20mA (Resolution:1/2000).	CP1W-ADB21
Analog Output Option Board 	Can be mounted in either CPU Unit Option Board slot 1 or 2. *3 2 analog outputs. 0-10V (Resolution:1/4000).	CP1W-DAB21V
Analog I/O Option Board 	Can be mounted in either CPU Unit Option Board slot 1 or 2. *3 2 analog inputs. 0-10V(Resolution:1/4000), 0-20mA(Resolution:1/2000). 2 analog outputs. 0-10V (Resolution:1/4000).	CP1W-MAB221
LCD Option Board 	Can be mounted only in the CPU Unit Option Board slot 1. *1	CP1W-DAM01
Memory Cassette 	Can be used for backing up programs or auto-booting.	CP1W-ME05M

*1. Cannot be used for the CP1L-L10.

*2. When using CP1W-CIF41 Ver.1.0, one Ethernet port can be added.

*3. CP1L-EM / EL only.

*4. Cannot be used for the CP1L-EM / EL.