CP1L CPU Units

Type		M CPU Units			L CPU Units		
Model		CP1L-M60DR-A CP1L-M60DR-D CP1L-M60DT-A CP1L-M60DT-D CP1L-M60DT1-D	CP1L-M40DR-A CP1L-M40DR-D CP1L-M40DT-A CP1L-M40DT-D CP1L-M40DT1-D	CP1L-M30DR-A CP1L-M30DR-D CP1L-M30DT-A CP1L-M30DT-D CP1L-M30DT1-D	CP1L-L20DR-A CP1L-L20DR-D CP1L-L20DT-A CP1L-L20DT-D CP1L-L20DT1-D CP1L-J20DR-A CP1L-J20DR-D CP1L-J20DT1-D	CP1L-L14DR-A CP1L-L14DR-D CP1L-L14DT-A CP1L-L14DT-D CP1L-L14DT1-D CP1L-J14DR-A CP1L-J14DR-D CP1L-J14DT1-D	CP1L-L10DR-A CP1L-L10DR-D CP1L-L10DT-A CP1L-L10DT-D CP1L-L10DT1-D
Power supply		Models with AC power (model numbers ending in “-A”): 100 to 240 V AC, 50/60 Hz Models with DC power (model numbers ending in “-D”): 24 V DC					
Program capacity		10K steps			5K steps J models : 1K steps		
Maximum number of I/O points		180 (See note 1.)	160 (See note 1.)	150 (See note 1.)	60 (See note 2.)	54 (See note 2.)	10 (See note 3.)
Normal I/O	I/O points	60	40	30	20	14	10
	Input points	36	24	18	12	8	6
	Input specifications	24 VDC					
	Interrupt or quick-response inputs	6 max				4 max	2 max
	Output points	24	16	12	8	6	4
	Output specifications	Relay outputs: Model numbers with “R” before the final suffix Transistor outputs, sinking: Model numbers with “T” before the final suffix Transistor outputs, sourcing:Model numbers with “T1” before the final suffix					
High-speed counter inputs		4 counters/2 axes, 100 kHz (single-phase), 100 kHz for up/down pulses or pulse plus direction, 50 kHz for differential phases J models: 4 counters/2 axes, 20kHz (single-phase), 20kHz for up/down pulses or pulse plus direction, 10kHz for differential phases.					
Pulse outputs		2 axes, 100 kHz (transistor outputs) J models : 2 axes, 20kHz (transistor outputs)					

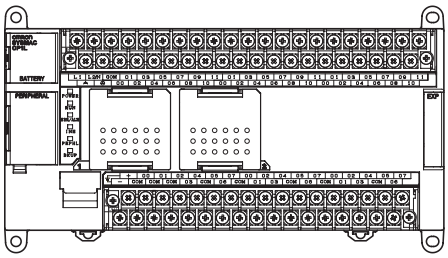
Note (1) Three Expansion I/O Units connected to a CP-series CPU Unit with 60, 40 or 30 I/O Points.

(2) One Expansion I/O Unit connected to a CP-series CPU Unit with 20 or 14 I/O Points.

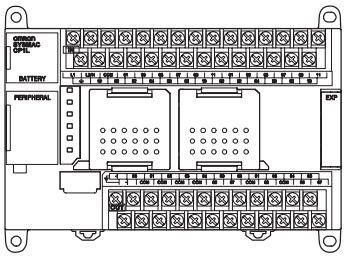
1-2 System Configuration

1-2-1 Basic System

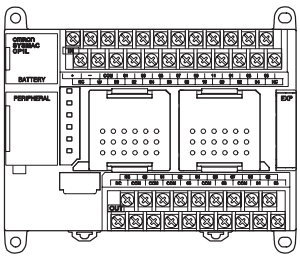
CPU Unit with 60 I/O Points



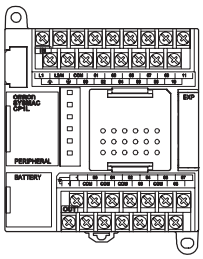
CPU Unit with 40 I/O Points



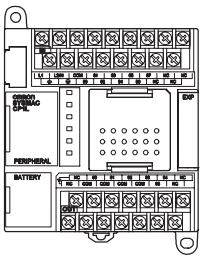
CPU Unit with 30 I/O Points



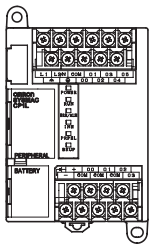
CPU Unit with 20 I/O Points



CPU Unit with 14 I/O Points



CPU Unit with 10 I/O Points



Maximum Number of Normal I/O Points

Type	I/O capacity	Power supply voltage	Model	Normal built-in inputs	Normal built-in outputs	Weight
M	60 points	100 to 240 VAC	CP1L-M60DR-A	36 DC inputs	24 relay outputs	820 g max.
		24 VDC	CP1L-M60DR-D			730 g max.
		100 to 240 VAC	CP1L-M60DT-A		24 transistor (sinking) outputs	765 g max.
		24 VDC	CP1L-M60DT-D			680 g max.
			CP1L-M60DT1-D		24 transistor (sourcing) outputs	675 g max.
	40 points	100 to 240 VAC	CP1L-M40DR-A	24 DC inputs	16 relay outputs	675 g max.
		24 VDC	CP1L-M40DR-D			590 g max.
		100 to 240 VAC	CP1L-M40DT-A		16 transistor (sinking) outputs	645 g max.
		24 VDC	CP1L-M60DT-D			550 g max.
			CP1L-M40DT1-D		16 transistor (sourcing) outputs	550 g max.
	30 points	100 to 240 VAC	CP1L-M30DR-A	18 DC inputs	12 relay outputs	610 g max.
		24 VDC	CP1L-M30DR-D			525 g max.
		100 to 240 VAC	CP1L-M30DT-A		12 transistor (sinking) outputs	590 g max.
		24 VDC	CP1L-M30DT-D			495 g max.
			CP1L-M30DT1-D		12 transistor (sourcing) outputs	495 g max.