

Maximize efficiency by selecting the optimum CPU unit for your applications



		CP1E											
		E-type					N-type						
		CP1E -E10D_-	CP1E -E14DR-A	CP1E -E20DR-A	CP1E -E30DR-A	CP1E -E40DR-A	CP1E -N14D_-	CP1E -N20D_-	CP1E -NA20D_-	CP1E -N30D_-	CP1E -N40D_-	CP1E -N60D_-	
I/O	Digital Inputs	6	8	12	18	24	8	12	12	18	24	36	
	Digital Outputs	4	6	8	12	16	6	8	8	12	16	24	
	Removable Terminals	No					No						
	Total I/O Capacity	10	14	20	150	160	14	20	140	150	160	180	
	CP1W Expansion Units	No			Yes (3 max.)		No		Yes (3 max.)				
	CJ-Series Special I/O and CPU Bus Units	No					No						
	Interrupt/Quick/Counter Inputs	4	6				6						
	High Speed Counter Inputs	5 (10 kHz max.)	6 (10 kHz max.)				2 (100 kHz max.) and 4 (10 kHz max.)						
	Pulse Outputs (transistor outputs models only)	No					2 axes (100 kHz max.)						
	Analogue I/O (embedded)	No					No		2 inputs, 1 output		No		
	Analogue Adjuster (0-255)	Yes (2)					Yes (2)						
	External Analogue Settings Input (resolution 1/256)	No					No						
Optional boards	Number of boards supported	0					0		1				
	Serial Communications (CP1W-CIF01/11/12)	No					No		Yes				
	Ethernet (CP1W-CIF41)	No					No		Yes				
	LCD Display (CP1W-DAM01)	No					No						
	Analogue I/O boards	No					No						
CPU details	Programming port	USB					USB						
	RS-232C port (embedded)	No					Yes (1)						
	Function Blocks support (Ladder diagrams or ST language)	No					No						
	Processing Speed (minimum)	1.19 µs / Basic instruction, 7.9 µs / Special instruction					1.19 µs / Basic instruction, 7.9 µs / Special instruction						
	Program Capacity	2K steps					8K steps						
	Data Memory Capacity	2K words					8K words						
	Memory Cassette (CP1W-ME05M)	No					No						
	Real-Time Clock	No					Yes (with optional battery)						
Battery	No					Optional							
7-Segment Display	No					No							
Relay Outputs	AC Power Supply	CP1E -E10DR-A	CP1E -E14DR-A	CP1E -E20DR-A	CP1E -E30DR-A	CP1E -E40DR-A	CP1E -N14DR-A	CP1E -N20DR-A	CP1E -NA20DR-A	CP1E -N30DR-A	CP1E -N40DR-A	CP1E -N60DR-A	
	DC Power Supply	CP1E -E10DR-D	-	-	-	-	CP1E -N14DR-D	CP1E -N20DR-D	-	CP1E -N30DR-D	CP1E -N40DR-D	CP1E -N60DR-D	
Transistor Outputs	Sink Type	AC Power Supply	CP1E -E10DT-A	-	-	-	CP1E -N14DT-A	CP1E -N20DT-A	-	CP1E -N30DT-A	CP1E -N40DT-A	CP1E -N60DT-A	
		DC Power Supply	CP1E -E10DT-D	-	-	-	CP1E -N14DT-D	CP1E -N20DT-D	CP1E -NA20DT-D	CP1E -N30DT-D	CP1E -N40DT-D	CP1E -N60DT-D	
	Source Type	AC Power Supply	CP1E -E10DT1-A	-	-	-	CP1E -N14DT1-A	CP1E -N20DT1-A	-	CP1E -N30DT1-A	CP1E -N40DT1-A	CP1E -N60DT1-A	
		DC Power Supply	CP1E -E10DT1-D	-	-	-	CP1E -N14DT1-D	CP1E -N20DT1-D	CP1E -NA20DT1-D	CP1E -N30DT1-D	CP1E -N40DT1-D	CP1E -N60DT1-D	

Note: This table is a general overview only. For details, refer to the CP1E datasheet (Cat. No. P061), CP1L datasheet (Cat. No. P081) or CP1H datasheet (Cat. No. P080).



CP1L									CP1H		
L-type			M-type			EL-type	EM-type				
CP1L -L10D_-	CP1L -L14D_-	CP1L -L20D_-	CP1L -M30D_-	CP1L -M40D_-	CP1L -M60D_-	CP1L -EL20D_-	CP1L -EM30D_-	CP1L -EM40D_-	CP1H -Y20DT-D	CP1H -X40D_-	CP1H -XA40D_-
6	8	12	18	24	36	12	18	24	12	24	24
4	6	8	12	16	24	8	12	16	8	16	16
No			Yes			No		Yes		Yes	
10	54	60	150	160	180	60	150	160	300	320	320
No			Yes (1 max.)			Yes (3 max.)			Yes (7 units or 15 input words / 15 output words max.)		
No						No			Yes (2 max.)		
2	4	6				6			6	8	
4 (100 kHz max.)						4 (100 kHz max.)			2 (100 kHz max.) and 2 Line-driver (1 MHz)	4 (100 kHz max.)	
2 axes (100 kHz max.)						2 axes (100 kHz max.)			2 (100 kHz max.) and 2 Line-driver (1 MHz)	4 axes (100 kHz max.)	
No						2 inputs			No		4 inputs, 2 outputs
Yes (1)						No			Yes (1)		
Yes (0-10V)						No			Yes (0-10V)		
0	1	2					1	2		2	
No		Yes				Yes			Yes		
No		Yes				No			Yes		
No		Yes				Yes			Yes		
No						Yes			No		
USB						Ethernet			USB		
No						No			No		
Yes						Yes			Yes		
0.55 µs / Basic instruction, 4.1 µs / Special instruction						0.55 µs / Basic instruction, 4.1 µs / Special instruction			0.10 µs / Basic instruction, 0.15 µs / Special instruction		
5K steps			10K steps			5K (+10K FB) steps		10K (+10K FB) steps		20K steps	
10K words			32K words			10K words		32K words		32K words	
Yes						Yes			Yes		
Yes						Yes			Yes		
Yes						Yes			Yes		
No						No			Yes		
CP1L -L10DR-A	CP1L -L14DR-A	CP1L -L20DR-A	CP1L -M30DR-A	CP1L -M40DR-A	CP1L -M60DR-A	-	-	-	-	CP1H -X40DR-A	CP1H -XA40DR-A
CP1L -L10DR-D	CP1L -L14DR-D	CP1L -L20DR-D	CP1L -M30DR-D	CP1L -M40DR-D	CP1L -M60DR-D	CP1L -EL20DR-D	CP1L -EM30DR-D	CP1L -EM40DR-D	-	-	-
CP1L -L10DT-A	CP1L -L14DT-A	CP1L -L20DT-A	CP1L -M30DT-A	CP1L -M40DT-A	CP1L -M60DT-A	-	-	-	-	-	-
CP1L -L10DT-D	CP1L -L14DT-D	CP1L -L20DT-D	CP1L -M30DT-D	CP1L -M40DT-D	CP1L -M60DT-D	CP1L -EL20DT-D	CP1L -EM30DT-D	CP1L -EM40DT-D	CP1H -Y20DT-D	CP1H -X40DT-D	CP1H -XA40DT-D
-	-	-	-	-	-	-	-	-	-	-	-
CP1L -L10DT1-D	CP1L -L14DT1-D	CP1L -L20DT1-D	CP1L -M30DT1-D	CP1L -M40DT1-D	CP1L -M60DT1-D	CP1L -EL20DT1-D	CP1L -EM30DT1-D	CP1L -EM40DT1-D	-	CP1H -X40DT1-D	CP1H -XA40DT1-D