

1-8-2 C200HS and C200HX/HG/HE Capabilities






The following table shows the capabilities of the C200HX/HG/HE PCs and compares them with those of the C200HS PCs.

Function		Capability	
		C200HX/HG/HE	C200HS
Memory	User memory (UM)	C200HE-CPU11-ZE: 3.2K words C200HE-CPU□2-ZE: 7.2K words C200HG-CPU□3-ZE: 15.2K words C200HX-CPU□4-ZE: 31.2K words C200HX-CPU□5-ZE: 63.2K words	15.2K words
	Normal DM	6,144 words (DM 0000 to DM 6143) (The C200HE-CPU11-ZE doesn't have DM 4096 to DM 5999.)	6,144 words (DM 0000 to DM 6143)
	Fixed DM	512 words (DM 6144 to DM 6655)	512 words (DM 6144 to DM 6655)
	Expansion DM	0 to 3,000 words (DM 7000 to DM 9999)	0 to 3,000 words (DM 7000 to DM 9999)
	Extended Data Memory (EM)	6,144 words (EM 0000 to EM 6143) C200HE: None C200HG: 6,144 words × 1 bank C200HX-CPU□4-ZE: 6,144 words × 3 banks C200HX-CPU65-ZE: 6,144 words × 8 banks C200HX-CPU85-ZE: 6,144 words × 16 banks	None
I/O allocation	Expansion Racks	3 Racks (2 Racks in the C200HE-CPU□□-ZE or C200HX/HG-CPU3□-ZE/4□-ZE)	2 Racks
	Group-2 Multipoint I/O Units	Unit numbers 0 to 9, A to F (Incompatible with the C200HE-CPU11-ZE.) (Unit numbers 0 to 9 with the C200HE-CPU□2-ZE, C200HX/HG-CPU3□-ZE/4□-ZE.)	Unit numbers 0 to 9
	Special I/O Units	Unit numbers 0 to 9, A to F (Unit numbers 0 to 9 with the C200HE-CPU□□-ZE or C200HX/HG-CPU3□-ZE/4□-ZE.)	Unit numbers 0 to 9
Execution time	Basic instructions (LD)	0.104 μs (C200HX) 0.156 μs (C200HG) 0.313 μs (C200HE)	0.375 μs
	MOV(021)	0.417 μs (C200HX) 0.625 μs (C200HG) 1.250 μs (C200HE)	19.00 μs
	ADD(030)	16.65 μs (C200HX/HG) 31.45 μs (C200HE)	40.10 μs
	Other instructions	C200HX/HG: 1/3 to 2/3 of C200HS time C200HE: 3/4 to 4/5 of C200HS time	---
	Common processes (END(001) processing)	0.7 ms (C200HX/HG) 2.1 ms (C200HE)	0.7 ms
	I/O refresh time	Same as the C200HS, although part of Special I/O refreshing takes 1/2 to 2/3 the C200HS time.	---

Appendix A

Standard Models

CPU Rack

Name	Specifications				Model number	
CPU Units (All models are provided with clock function and slots for communications except CPU11-ZE.) 	UM	EM	I/O points	RS-232C	—	
	3.2K words	None	640	No	C200HE-CPU11-ZE	
	7.2K words		880	No	C200HE-CPU32-ZE	
	15.2K words	6K words (1 bank)	880	Yes	C200HE-CPU42-ZE	
				No	C200HG-CPU33-ZE	
		1,184	No	C200HG-CPU43-ZE		
			Yes	C200HG-CPU53-ZE		
	31.2K words	18K words (3 banks)	880	No	C200HG-CPU63-ZE	
				Yes	C200HX-CPU34-ZE	
		1,184	No	C200HX-CPU44-ZE		
			Yes	C200HX-CPU54-ZE		
	63.2K words	48K words (8 banks)	1,184	Yes	C200HX-CPU64-ZE	
96K words (16 banks)		1,184	Yes	C200HX-CPU65-ZE		
Power Supply Units 	100 to 120/200 to 240 VAC				C200HW-PA204	
	100 to 120/200 to 240 VAC (with 24-VDC output terminals)				C200HW-PA204S	
	24 VDC				C200HW-PD024	
CPU I/O Backplanes 	3 slots				C200HW-BC031	
	5 slots				C200HW-BC051	
	8 slots				C200HW-BC081	
	10 slots				C200HW-BC101	
Communication Boards (See note.) 	Communications port for SYSMAC LINK and SYSMAC NET Link Units				C200HW-COM01	
	RS-232C port				C200HW-COM02-V1	
	RS-422/485 port				C200HW-COM03-V1	
	Communications port for the SYSMAC LINK Unit and SYSMAC NET Link Unit and a protocol macro function				C200HW-COM04-EV1	
	Two RS-232C ports and a protocol macro function				C200HW-COM05-EV1	
	RS-422/485 port, an RS-232C port, and a protocol macro function				C200HW-COM06-EV1	
Memory Cassettes 	EEPROM	4K words			C200HW-ME04K	
		8K words			C200HW-ME08K	
		16K words			C200HW-ME16K	
		32K words			C200HW-ME32K	
		64K words			C200HW-ME64K	
	EPROM	16K words/32K words				C200HW-MP16K
		Equivalent to 27256, 150 ns, 12.5 V				ROM-JD-B
Equivalent to 27512, 150 ns, 12.5 V				ROM-KD-B		