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## CPU Selection

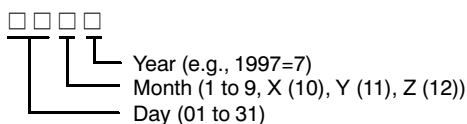
### ■ CPU Rack

Name	Specifications			Standards	Part number
CPUs (See note.)  	I/O bits	Program capacity	Data memory capacity	---	---
	5,120	250K steps	448K words (DM: 32K words, EM: 32K words × 13 banks)	N, L, UC, CE, CID2	<b>CS1H-CPU67H</b>
	5,120	120K steps	256K words (DM: 32K words, EM: 32K words × 7 banks)		<b>CS1H-CPU66H</b>
	5,120	60K steps	128K words (DM: 32K words, EM: 32K words × 3 banks)		<b>CS1H-CPU65H</b>
	5,120	30K steps	64K words (DM: 32K words, EM: 32K words × 1 bank)		<b>CS1H-CPU64H</b>
	5,120	20K steps	64K words (DM: 32K words, EM: 32K words × 1 bank)		<b>CS1H-CPU63H</b>
	5,120	60K steps	128K words (DM: 32K words, EM: 32K words × 3 banks)		<b>CS1G-CPU45H</b>
	1,280	30K steps	64K words (DM: 32K words, EM: 32K words × 1 bank)		<b>CS1G-CPU44H</b>
	960	20K steps	64K words (DM: 32K words, EM: 32K words × 1 bank)		<b>CS1G-CPU43H</b>
	960	10K steps	64K words (DM: 32K words, EM: 32K words × 1 bank)		<b>CS1G-CPU42H</b>
CPU Backplanes (for CS1 Units only)	2 slots (Does not connect to Expansion Rack.)				U, C, N, L, CE
	3 slots			<b>CS1W-BC032</b>	
	5 slots			<b>CS1W-BC052</b>	
	8 slots			<b>CS1W-BC082</b>	
	10 slots			<b>CS1W-BC102</b>	
CPU Backplanes  	2 slots (Does not connect to Expansion Rack.)			U, C, N, L, CE	<b>CS1W-BC023</b>
	3 slots				<b>CS1W-BC033</b>
	5 slots				<b>CS1W-BC053</b>
	8 slots				<b>CS1W-BC083</b>
	10 slots				<b>CS1W-BC103</b>
Power Supply Units  	100 to 120 VAC or 200 to 240 VAC; Output capacity: 4.6 A, 5 VDC			U, C, N, L, CE	<b>C200HW-PA204</b>
	100 to 120 VAC or 200 to 240 VAC (with 0.8 A, 24 VDC service power supply) Output capacity: 4.6 A, 5 VDC				<b>C200HW-PA204S</b>
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 4.6 A, 5 VDC			U, C	<b>C200HW-PA204R</b>
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 9 A, 5 VDC			U, C, N, L, CE	<b>C200HW-PA209R</b>
	24 VDC, Output capacity: 4.6 A, 5 VDC			U, C, N, L, CE	<b>C200HW-PD024</b>
I/O Control Unit	For Expansion Racks connected over a distance of more than 12 m (2 terminating resistors included. C200H Modules cannot be used on Long-distance Expansion Racks.)			U, C, CE, N	<b>CS1W-IC102</b>




(This table continues on the next page.)

**Note:** When using a CS1W-CN313 or CS1W-CN713 I/O Connecting Cable with a CS1□-CPU□□H CPU, use only Cables produced on or after September 20, 2001 (production number 2091). Cables with no production number, or produced before September 20, 2001, cannot be used.

#### Reading the production number



CPU Rack (continued)




Name	Specifications	Standards	Part number	
 <p>Memory Cards</p>	Flash memory, 15 MB	L, CE	HMC-EF172 (See note.)	
	Flash memory, 30 MB		HMC-EF372 (See note.)	
	Flash memory, 64 MB		HMC-EF672 (See note.)	
	Memory Card Adapter (for computer PCMCIA slot)	CE	HMC-AP001	
<p>Serial Communications Boards</p>	2 × RS-232C ports, protocol macro function	U, C, N, L, CE	CS1W-SCB21-V1	
	1 × RS-232C port + 1 × RS-422/485 port, protocol macro function		CS1W-SCB41-V1	
 <p>Programming Consoles</p>	An English Keyboard Sheet (CS1W-KS001-E) is required. (Connects to peripheral port on CPU Unit only. Cannot be connected to RS-232C port.)	U, C, N, CE	CQM1-PRO01-E	
			C200H-PRO27-E	
Programming Console Key Sheet	For C200H-PRO27 and CQM1-PRO01	CE	CS1W-KS001-E	
 <p>Programming Console Connecting Cables</p>	Connects the CQM1-PRO01-E Programming Console. (Length: 0.05 m)		CS1W-CN114	
	Connects the C200H-PRO27-E Programming Console. (Length: 2.0 m)		CS1W-CN224	
	Connects the C200H-PRO27-E Programming Console. (Length: 6.0 m)		CS1W-CN624	
CX-Programmer	For 1 license	Windows-based Support Software for ladder programming on Windows 95, 98, Me, NT 4.0, 2000, or XP  (Connects to peripheral port on CPU Unit or RS-232C port on CPU Unit or Serial Communications Unit/Board.)	---	
	For 3 licenses		WS02-CXPC1-EV3 L03	
	For 10 licenses		WS02-CXPC1-EV3 L10	
Peripheral Device Connecting Cables (for peripheral port)	Connects DOS computers, D-Sub 9-pin receptacle (Length: 0.1 m) (Conversion cable to connect RS-232C cable to peripheral port)	CE	CS1W-CN118	
	Peripheral bus or Host Link		Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	CS1W-CN226
			Connects DOS computers, D-Sub 9-pin (Length: 6.0 m)	CS1W-CN626
Peripheral Device Connecting Cables (for RS-232C port)	Peripheral bus or Host Link, antistatic	---	XW2Z-200S-CV * CBL-202	
			Connects DOS computers, D-Sub 9-pin (Length: 5.0 m)	XW2Z-500S-CV
	Host Link		Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	XW2Z-200S-V * CBL-202
			Connects DOS computers, D-Sub 9-pin (Length: 5.0 m)	XW2Z-500S-V
CX-Simulator	Windows-based Support Software for simulating ladder program operation on Windows 95, 98, Me, NT 4.0, 2000, or XP	---	WS02-SIMC1-E	
CX-Protocol	Windows-based Protocol Creation Software for Windows 95, 98, Me, NT 4.0, 2000, or XP	---	WS02-PSTC1-E	
Battery Set	For CS1 Series only. (Install a replacement battery within 2 years of the production date.)	L, CE	CS1W-BAT01	

**Note:** 1. HMC-EF172/EF372/EF672 flash memory cannot be used with CS1G-CPU□□H, CS1H-CPU□□H, CJ1G-CPU□□H, or CJ1H-CPU□□H Modules predating lot number 020108 (i.e., manufactured before January 8, 2002) or with NS-7-series products predating lot number 0852 (i.e., manufactured before May 8, 2002) cannot be used together.

2. \* Indicates availability in Canada only.

## Expansion Racks

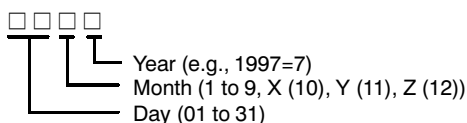
### ■ Expansion Racks

Name	Specifications	Standards	Part number	
CS1 Expansion Backplanes (for CS1 Modules only)	3 slots	U, C, N, L, CE	CS1W-BI032	
	5 slots		CS1W-BI052	
	8 slots		CS1W-BI082	
	10 slots		CS1W-BI102	
 CS1 Expansion Backplanes	3 slots	U, C, N, L, CE	CS1W-BI033	
	5 slots		CS1W-BI053	
	8 slots		CS1W-BI083	
	10 slots		CS1W-BI103	
 C200H Expansion I/O Backplanes	3 slots	U, C, N, L, CE	C200HW-BI031	
	5 slots		C200HW-BI051	
	8 slots		C200HW-BI081-V1	
	10 slots		C200HW-BI101-V1	
 Power Supply Modules	100 to 120 VAC or 200 to 240 VAC, Output capacity: 4.6 A, 5 VDC	U, C	C200HW-PA204	
	100 to 120 VAC or 200 to 240 VAC (with service supply: 0.8 A, 24 VDC), Output capacity: 4.6 A, 5 VDC		C200HW-PA204S	
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 4.6 A, 5 VDC	U, C	C200HW-PA204R	
	24 VDC	U, C, N, L, CE	C200HW-PD024	
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 9 A, 5 VDC	U, C, N, L, CE	C200HW-PA209R	
I/O Interface Unit	For Expansion Racks connected over a distance of more than 12 m. (C200H Modules cannot be used on Long-distance Expansion Racks.)	U, C, CE	CS1W-II102	
CS1 I/O Connecting Cables (See note.)	Connects CS1 Expansion I/O Backplanes to CPU Backplanes or other CS1 Expansion I/O Backplanes.	Length: 0.3 m	L, CE	CS1W-CN313
		Length: 0.7 m		CS1W-CN713
		Length: 2 m		CS1W-CN223
		Length: 3 m		CS1W-CN323
		Length: 5 m		CS1W-CN523
		Length: 10 m		CS1W-CN133
		Length: 12 m		CS1W-CN133-B2
Long-distance Expansion Rack Cables	Connect I/O Control Unit to I/O Interface Unit or connects two I/O Interface Modules	Length: 0.3 m	N, L, CE	CV500-CN312
		Length: 0.6 m	N, CE	CV500-CN612
		Length: 1 m		CV500-CN122
		Length: 2 m	CE	CV500-CN222
		Length: 3 m		CV500-CN322
		Length: 5 m		CV500-CN522
		Length: 10 m		CV500-CN132
		Length: 20 m		CV500-CN232
		Length: 30 m		CV500-CN332
		Length: 40 m		CV500-CN432
Length: 50 m	CV500-CN532			

(This table continues on the next page.)

**Note:** When using a CS1W-CN313 or CS1W-CN713 I/O Connecting Cable with a CS1□-CPU□□H CPU Unit, use only Cables produced on or after September 20, 2001 (production number 2091). Cables with no production number, or produced before September 20, 2001, cannot be used.






#### Reading the production number



Expansion Racks (continued)

Name	Specifications	Standards	Part number
CS1 to C200H I/O Connecting Cables	Connects C200H Expansion I/O Backplanes to CPU Backplanes or CS1 Expansion I/O Backplanes.	L, CE	Length: 0.3 m
			Length: 0.7 m
			Length: 2 m
			Length: 3 m
			Length: 5 m
			Length: 10 m
			Length: 12 m
C200H I/O Connecting Cables	Connects C200H Expansion I/O Backplanes to other C200H Expansion I/O Backplanes.	N, L, CE	Length: 0.3 m
			Length: 0.7 m
			Length: 2 m
		L, CE	Length: 5 m
			Length: 10 m
			C200H-CN311
			C200H-CN711
C200H-CN221			
C200H-CN521			
C200H-CN131			
C200H-CN131-B2			

■ C200H Basic I/O Modules

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long distance Racks	SYSMAC BUS Slave Racks			
 DC Input Modules	12 to 24 VDC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	C200H-ID211
	24 VDC, 16 inputs	Yes	Yes	Yes	No	Yes			16
 AC Input Modules	100 to 120 VAC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L	C200H-IA121
	100 to 120 VAC, 16 inputs	Yes	Yes	Yes	No	Yes			16
	100 to 120 VAC, 16 inputs	Yes	Yes	Yes	No	Yes	16	CE	C200H-IA122V
	200 to 240 VAC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L	C200H-IA221
	200 to 240 VAC, 16 inputs	Yes	Yes	Yes	No	Yes			16
	200 to 240 VAC, 16 inputs	Yes	Yes	Yes	No	Yes	16	CE	C200H-IA222V
 AC/DC Input Modules	12 to 24 VAC/VDC, 8 inputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	C200H-IM211
	24 VAC/VDC, 16 inputs	Yes	Yes	Yes	No	Yes			16
 B7A Input Modules	16 inputs	Yes	Yes	Yes	No	Yes	16	U, C, CE	C200H-B7A11
	32 inputs	Yes	Yes	Yes	No	No (See note 2.)	32	U, C	C200H-B7A12
 Interrupt Input Unit	12 to 24 VDC, 8 inputs	Yes	Yes (See note 1.)	Yes (See note 1.)	No (See note 1.)	No	16	U, C, CE	C200HS-INT01




(This table continues on the next page.)

- Note:**
1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.
  2. C200H-B7A12/02/21/22 are C200H Group-2 Modules.



## Basic I/O Modules



### C200H Basic I/O Modules (continued)

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long distance Racks	SYSMAC BUS Slave Racks			
Relay Bit Output Modules 	250 VAC/24 VDC, 2 A, 8 outputs max.	Yes	Yes	Yes	No	Yes	16	U, C, N	C200H-OC221
	250 VAC/24 VDC, 2 A, 12 outputs max.	Yes	Yes	Yes	No	Yes	16		C200H-OC222
	250 VAC/24 VDC, 2 A, 12 outputs max.	Yes	Yes	Yes	No	Yes	16	CE	C200H-OC222N
	250 VAC/24 VDC, 2 A, 16 outputs max.	Yes	Yes	Yes	No	Yes	16	U, C, N, L	C200H-OC225
	250 VAC/24 VDC, 2 A, 16 outputs max.	Yes	Yes	Yes	No	Yes	16	CE	C200H-OC226N
	250 VAC/24 VDC, 2 A, independent contacts, 5 outputs max.	Yes	Yes	Yes	No	Yes	16	U, C, N, L	C200H-OC223
	250 VAC/24 VDC, 2 A, independent contacts, 8 outputs max.	Yes	Yes	Yes	No	Yes	16		C200H-OC224
	250 VAC/24 VDC, 2 A, independent contacts, 8 outputs max.	Yes	Yes	Yes	No	Yes	16	CE	C200H-OC224N
Transistor Output Modules 	12 to 48 VDC, 1 A, 8 sinking outputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	C200H-OD411
	24 VDC, 2.1 A, 8 sinking outputs	Yes	Yes	Yes	No	Yes	16		C200H-OD213
	24 VDC, 0.8 A, 8 sourcing outputs, load short-circuit protection.	Yes	Yes	Yes	No	Yes	16	U, C, N, L	C200H-OD214
	5 to 24 VDC, 0.3 A, 8 sourcing outputs	Yes	Yes	Yes	No	Yes	16		C200H-OD216
	24 VDC, 0.3 A, 12 sinking outputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L, CE	C200H-OD211
	5 to 24 VDC, 0.3 A, 12 sourcing outputs	Yes	Yes	Yes	No	Yes	16		C200H-OD217
	24 VDC, 0.3 A, 16 sinking outputs	Yes	Yes	Yes	No	Yes	16		C200H-OD212
	24 VDC, 1 A, 16 sourcing outputs, load short-circuit protection.	Yes	Yes	Yes	No	Yes	16	CE	C200H-OD21A
B7A Output Modules 	16 outputs	Yes	Yes	Yes	No	Yes	16	U, C, CE	C200H-B7A01
	32 outputs	Yes	Yes	Yes	No	No (See note 2.)	32	U, C	C200H-B7A02

(This table continues on the next page.)


- Note:**
1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.
  2. C200H-B7A12/02/21/22 are C200H Group-2 Modules.

**C200H Basic I/O Modules (continued)**

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long distance Racks	SYSMAC BUS Slave Racks			
Triac Output Modules 	250 VAC, 1.2 A, 8 outputs	Yes	Yes	Yes	No	Yes	16	CE	C200H-OA223
	250 VAC, 0.3 A, 12 outputs	Yes	Yes	Yes	No	Yes	16		C200H-OA222V
	250 VAC, 0.5 A, 12 outputs	Yes	Yes	Yes	No	Yes	16	U, C, N, L	C200H-OA224
Analog Timer Unit 	4-point timer	Yes	Yes	Yes	No	Yes	16	U, C	C200H-TM001
	External Variable Resistor Connector:	---							---

- Note:**
1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.
  2. C200H-B7A12/02/21/22 are C200H Group-2 Modules.
  3. The C200H-ID001 (no-voltage contacts, 8 inputs, NPN) and C200H-ID002 (no-voltage contacts, 8 inputs, PNP) cannot be used.

**■ C200H Group-2 High-density I/O Modules**

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
DC Input Modules 	24 VDC, 32 inputs	Yes	Yes	Yes	No	No	32	U, C, N, L, CE	C200H-ID216
	24 VDC, 64 inputs	Yes	Yes	Yes	No	No	64		C200H-ID217
	24 VDC, 32 inputs, 6 mA	Yes	Yes	Yes	No	No	32	U, C, CE	C200H-ID218
	24 VDC, 64 inputs, 6 mA	Yes	Yes	Yes	No	No	64		C200H-ID219
	12 VDC, 64 inputs	Yes	Yes	Yes	No	No	64	U, C	C200H-ID111
Transistor Output Modules	16 mA/4.5 V to 100 mA/26.4 V, 32 sinking outputs	Yes	Yes	Yes	No	No	32	U, C, N, L, CE	C200H-OD218
	0.5 A/ 24 VDC, 32 sourcing outputs, load short-circuit protection	Yes	Yes	Yes	No	No	32	U, C, CE	C200H-OD21B
	16 mA/4.5 V to 100 mA/26.4 V, 64 sinking outputs	Yes	Yes	Yes	No	No	64	U, C, N, L, CE	C200H-OD219
B7A Input Modules	32 inputs	Yes	Yes	Yes	No	No (See note.)	32	U, C	C200H-B7A12
B7A Output Modules	32 outputs	Yes	Yes	Yes	No	No (See note.)	32		C200H-B7A02
B7A I/O Modules	16 inputs, 16 outputs	Yes	Yes	Yes	No	No (See note.)	16		C200H-B7A21
	32 inputs, 32 outputs	Yes	Yes	Yes	No	No (See note.)	32		C200H-B7A22

(This table continues on the next page.)

- Note:** The C200H-B7A12/02/21/22 are C200H Group-2 Modules.

## High-Density I/O Modules

### ■ C200H Group-2 High-density I/O Modules

Part	Connection		Remarks	Standards	Part number
Applicable connector	Soldered (included with Unit)		From Fujitsu Socket: FCN-361J040-AU Connector bar: FCN-360C040-J2	---	C500-CE404
	Crimped		From Fujitsu Socket: FCN-363J040 Connector bar: FCN-360C040-J2 Contacts: FCN-363J-AU		C500-CE405
	Pressure welded		From Fujitsu: FCN-367J040-AU		C500-CE403
Terminal block connection parts	1:1 connections	Special Cable	For CS1W-ID231/ID261/OD231/OD232/OD261/OD262/MD261/MD262 and C200H-ID216/ID217/ID218/ID219/ID111/OD218/OD219		XW2Z-□□□B (See note 1.)
		Terminal Block Unit			XW2B-40G4
					XW2B-40G5
					XW2D-40G6
	1:2 connections	Special Cable			XW2Z-□□□D (See notes 1 and 2.)
		Terminal Block Unit			XW2B-20G4
					XW2B-20G5
					XW2D-20G6
		XW2C-20G5-IN16			

- Note:**
1. Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)
  2. The XW2Z-□□□D, CS1W-OD□□□, and C200H-OD□□□ cannot be connected. Only the inputs of the CS1W-MD□□□ can be connected.



### ■ CS1 High-density I/O Modules

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
DC Input Modules	24 VDC, 16 inputs, 7 mA	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	CS1W-ID211
	24 VDC, 32 inputs, 6 mA	Yes	No	Yes	Yes	No	32		CS1W-ID231
	24 VDC, 64 inputs, 6 mA	Yes	No	Yes	Yes	No	64		CS1W-ID261
	24 VDC, 96 inputs, approx. 5 mA	Yes	No	Yes	Yes	No	96	U, C, N, L, CE	CS1W-ID291
AC Input Modules	100 to 120 VAC, 100 to 120 VDC, 16 inputs	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	CS1W-IA111
	200 to 240 VAC, 16 inputs	Yes	No	Yes	Yes	No	16	UC, N, CE	CS1W-IA211
Interrupt Input Unit	24 VDC, 16 inputs, 7 mA	Yes	No	Yes (See note.)	Yes (See note.)	No	16	UC, N, CE, CID2	CS1W-INT01
High-speed Input Unit	24 VDC, 16 inputs, 7 mA	Yes	No	Yes	Yes	No	16		CS1W-IDP01
Safety Relay Unit	24 VDC, 2 channels with 4 inputs each, 4 pts/common	Yes	No	Yes	Yes	No	16	U, C, CE	CS1W-SF200

(This table continues on the next page.)



CS1 High-density I/O Modules (continued)

Name	Specifications	Mountable Racks					Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Relay Output Modules	250 VAC or 120 VDC, independent contacts, 8 outputs, 2 A	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	CS1W-OC201
	250 VAC or 120 VDC, 16 outputs, 2 A	Yes	No	Yes	Yes	No	16		CS1W-OC211
Transistor Output Modules 	12 to 24 VDC, 0.5 A, 16 sinking outputs	Yes	No	Yes	Yes	No	16	UC, N, CE, CID2	CS1W-OD211
	24 VDC, 0.5 A, 16 sourcing outputs	Yes	No	Yes	Yes	No	16		U, C, N, CE
	12 to 24 VDC, 0.5 A, 32 sinking outputs	Yes	No	Yes	Yes	No	32	U, C, N, CE, CID2	CS1W-OD231
	24 VDC, 0.5 A, 32 sourcing outputs	Yes	No	Yes	Yes	No	32		U, C, N, CE
	12 to 24 VDC, 0.3 A, 64 sinking outputs	Yes	No	Yes	Yes	No	64	UC, N, CE, CID2	CS1W-OD261
	24 VDC, 0.3 A, 64 sourcing outputs	Yes	No	Yes	Yes	No	64		CS1W-OD262
	12 to 24 VDC, 0.1 A, 96 sinking outputs	Yes	No	Yes	Yes	No	96	U, C, N, L, CE	CS1W-OD291
	12 to 24 VDC, 0.1 A, 96 sourcing outputs	Yes	No	Yes	Yes	No	96		CS1W-OD292
Triac Output Unit	250 VAC, 1.2 A, 8 outputs	Yes	No	Yes	Yes	No	16	UC, N, CE	CS1W-OA201
	250 VAC, 0.5 A, 16 outputs	Yes	No	Yes	Yes	No	16		CS1W-OA211
DC Input/Transistor Output Modules 	24 VDC, 6 mA, 32 inputs, 12 to 24 VDC, 0.3 A, 32 sinking outputs	Yes	No	Yes	Yes	No	Inputs: 32 Outputs: 32	UC, N, CE, CID2	CS1W-MD261
	24 VDC, 6 mA, 32 inputs, 24 VDC, 0.3 A, 32 sourcing outputs	Yes	No	Yes	Yes	No	Inputs: 32 Outputs: 32		U, C, N, CE
	5 VDC, 3.5 mA, 32 inputs, 5 VDC, 3.5 mA, 32 outputs	Yes	No	Yes	Yes	No	Inputs: 32 Outputs: 32	UC, N, CE	CS1W-MD561
	24 VDC, approx. 5 A, 48 inputs, 12 to 24 VDC, 0.1 A, 48 outputs, sinking inputs/outputs	Yes	No	Yes	Yes	No	Inputs: 48 Outputs: 48	U, C, N, L, CE	CS1W-MD291
	24 VDC, approx. 5 A, 48 inputs, 12 to 24 VDC, 0.1 A, 48 outputs, sourcing inputs/outputs	Yes	No	Yes	Yes	No	Inputs: 48 Outputs: 48		CS1W-MD292

**Note:** Interrupt input is not available when mounted on these Racks (i.e., used as normal I/O Unit).


## CPU Selection

### ■ Connectors for CS1 High-density I/O Modules

Part	Connection		Remarks	Standards	Part number
Applicable connectors	Soldered (included with Unit)		From Fujitsu Socket: FCN-361J056-AU Connector bar: FCN-360C056-J3	---	CS1W-CE561
	Crimped		From Fujitsu Socket: FCN-363J056 Connector bar: FCN-360C056-J3 Contacts: FCN-363J-AU		CS1W-CE562
	Pressure welded		From Fujitsu: FCN-367J056-AU		CS1W-CE563
Terminal block	1:1	Special Cable	For CS1W-ID291/OD291/OD292/ MD291/MD292		XW2Z-□□□H-1 (see note.)
		Terminal Block Unit			XW2B-60G4
	1:2	Special Cable			XW2B-60G5
		Terminal Block Unit			XW2Z-□□□H-2 (see note.)
	1:3	Special Cable			XW2B-20G4
					Terminal Block Unit
		Terminal Block Unit			XW2D-20G6
					XW2B-40G4
					XW2B-40G5
					XW2D-40G6
	1:3	Special Cable			XW2Z-□□□H-3 (see note.)
					Terminal Block Unit
Terminal Block Unit		XW2B-20G5			
		XW2D-20G6			

**Note:** Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)

### ■ C200H High-density I/O Modules Classified as Special I/O Modules

Name	Specifications	Mountable Racks					Unit No	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
 DC Input Modules	24 VDC, 32 inputs	Yes	Yes	Yes	No	Yes	0 to 9	U, C, N, L, CE	C200H-ID215
TTL Input Modules	5 VDC, 32 inputs	Yes	Yes	Yes	No	Yes			C200H-ID501
Transistor Output Modules	24 VDC, 32 sinking outputs	Yes	Yes	Yes	No	Yes			C200H-OD215
TTL Output Modules	5 VDC, 32 sinking outputs	Yes	Yes	Yes	No	Yes			C200H-OD501
TTL I/O Modules	5 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	No	Yes			C200H-MD501
DC Input/Transistor Output Modules	24 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	No	Yes			C200H-MD215
	12 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	No	Yes	U, C, N, L	C200H-MD115	



■ Connectors for C200H High-density I/O Modules

Part	Connection	Remarks	Standards	Part number
Applicable connectors	Soldered (included with Unit)	From Fujitsu Socket: FCN-361J024-AU Connector bar: FCN-360C024-J2	---	C500-CE241
	Crimped	From Fujitsu Socket: FCN-363J024 Connector bar: FCN-360C024-J2 Contacts: FCN-363J-AU		C500-CE242
	Pressure welded	From Fujitsu: FCN-367J024-AU/F		C500-CE243
Terminal block connection parts	Special Cable	For C200H-ID215/ID501/OD215 / MD115/MD215  For C200H-ID215/ID501/MD115 / MD215/MD501 □□□ = cable length		XW2Z-□□□A (See note.)
	Terminal Block Connector			XW2B-20G4
				XW2B-20G5
				XW2D-20G6
				XW2B-20G5-D
				XW2B-40G5-T
	Special Cable			XW2Z-□□□A (see note)
	Terminal Block Connector			XW2C-20G6-IN16

**Note:** Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)



## Special I/O Modules

### ■ C200H Special I/O Modules

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Temperature Control Modules 	Thermocouple input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	C200H-TC001
	Thermocouple input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			C200H-TC002
	Thermocouple input, PID current output	Yes	Yes	Yes	No	Yes			C200H-TC003
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes			C200H-TC101
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			C200H-TC102
	Temperature-resistance thermometer input, PID current output	Yes	Yes	Yes	No	Yes			C200H-TC103
Data Setting Console 	Used with Temperature Control Modules. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	---	---	---	---	---	---	---	C200H-DSC01
	Connecting Cable, 2 m	---	---	---	---	---	---	---	C200H-CN225
	Connecting Cable, 4 m	---	---	---	---	---	---	---	C200H-CN425

(This table continues on the next page.)




C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Heat/Cool Temperature Control Modules 	Thermocouple input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	C200H-TV001
	Thermocouple input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			C200H-TV002
	Thermocouple input, PID current output	Yes	Yes	Yes	No	Yes			C200H-TV003
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes			C200H-TV101
	Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			C200H-TV102
	Temperature-resistance thermometer input, PID current output	Yes	Yes	Yes	No	Yes			C200H-TV103
	Temperature-resistance thermometer input, PID current output	Yes	Yes	Yes	No	Yes			C200H-TV103
Temperature Sensor Modules 	Thermocouple input, K/J selectable	Yes	Yes	Yes	No	Yes	0 to 9	U, C	C200H-TS001
	Thermocouple input, K/L selectable	Yes	Yes	Yes	No	Yes			C200H-TS002
	Temperature-resistance thermometer, JPt 100	Yes	Yes	Yes	No	Yes			C200H-TS101
	Temperature-resistance thermometer, Pt 100	Yes	Yes	Yes	No	Yes			C200H-TS102

(This table continues on the next page.)




## Special I/O Modules

### C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
<b>PID Control Modules</b> 	Voltage output/current input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	<b>C200H-PID01</b>
	Voltage output/current input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	No	Yes			<b>C200H-PID02</b>
	Voltage output/current input, PID current output	Yes	Yes	Yes	No	Yes			<b>C200H-PID03</b>
<b>Data Setting Console</b> 	Used with PID Control Modules. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	---					---	---	<b>C200H-DSC01</b>
	Connecting Cable, 2 m	---							<b>C200H-CN225</b>
	Connecting Cable, 4 m	---							<b>C200H-CN425</b>
<b>Cam Positioner Unit</b> 	48 cam outputs (16 external outputs and 32 internal outputs), Resolver speed: 20 μs (5 kHz)	Yes	Yes	Yes	No	Yes	0 to 9	U, C	<b>C200H-CP114</b>

(This table continues on the next page.)

C200H Special I/O Modules (continued)



Name	Specifications	Mountable Racks					Unit No.	Standards	Part number		
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks					
<b>Data Setting Console</b> 	Used with Cam Positioner Unit.  Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	---					---	---	<b>C200H-DSC01</b>		
	Connecting Cable, 2 m	---							<b>C200H-CN225</b>		
	Connecting Cable, 4 m	---							<b>C200H-CN425</b>		
<b>ASCII Modules</b> 	24-Kbyte RAM, 2 RS-232C ports	Yes	Yes	Yes	No	Yes	0 to F	U, C, CE	<b>C200H-ASC02</b>		
	200-Kbyte RAM, 2 RS-232C ports	Yes	Yes	Yes	No	Yes			<b>C200H-ASC11</b>		
	200-Kbyte RAM, RS-232C port, RS-422/485 port	Yes	Yes	Yes	No	Yes			<b>C200H-ASC21</b>		
	200-Kbyte RAM, 3 RS-232C ports (1 terminal only)	Yes	Yes	Yes	No	Yes			<b>C200H-ASC31</b>		
<b>Analog Input Modules</b> 	4 to 20 mA, 1 to 5/0 to 10 V (selectable), 4 inputs, 1/4,000 resolution	Yes	Yes	Yes	No	Yes	0 to 9	U, C, N, L	<b>C200H-AD001</b>		
	4 to 20 mA, 1 to 5/0 to 10 V/-10 to +10 V (selectable); 8 inputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes			0 to F	U, C, N, L, CE	<b>C200H-AD002</b>
	4 to 20 mA, 1 to 5/0 to 10 V/-10 to +10 V (selectable); 8 inputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes					<b>C200H-AD003</b>

(This table continues on the next page.)




## Special I/O Modules

### C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Analog Output Modules 	4 to 20 mA, 1 to 5/0 to 10 V (selectable); 2 outputs; 1/4,075 resolution	Yes	Yes	Yes	No	Yes	0 to 9	U, C, N, L	<b>C200H-DA001</b>
	4 to 20 mA, -10 to +10 V (selectable), 4 outputs; voltage: 1/8,190 current: 1/4,095	Yes	Yes	Yes	No	Yes	0 to F	U, C, N, L, CE	<b>C200H-DA002</b>
	1 to 5 V, -10 to +10 V (selectable), 8 outputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes			<b>C200H-DA003</b>
	4 to 20 mA, 8 outputs; 1/4,000 resolution	Yes	Yes	Yes	No	Yes			<b>C200H-DA004</b>
Analog I/O Modules 	2 inputs (4 to 20 mA, 1 to 5 V, etc.) 2 outputs (4 to 20 mA, 1 to 5 V, etc.)	Yes	Yes	Yes	No	Yes			<b>C200H-MAD01</b>

(This table continues on the next page.)



C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number	
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks				
High-speed Counter Modules 	One-axis pulse input, counting rate: 50 kcps max.	Yes	Yes	Yes	No	Yes	0 to 9	U, C, CE	C200H-CT001-V1	
	One-axis pulse input, counting rate: 75 kcps max., line driver compatible	Yes	Yes	Yes	No	Yes			C200H-CT002	
	Two-axis pulse input, counting rate: 75 kcps max., line driver compatible	Yes	Yes	Yes	No	Yes			0 to F	C200H-CT021
	Solder terminal; 40p and a Connector Cover	---						---	---	C500-CE401
	Solderless terminal; 40p and a Connector Cover (Crimped)	---						---	---	C500-CE402
	Pressure welded terminal; 40p	---						---	---	C500-CE403
	Solder terminal; 40p and a Connector Cover (Horizontal-type)	---						---	---	C500-CE404
Crimp-style terminal; 40p and a Connector Cover (Horizontal-type)	---						---	---	C500-CE405	

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## Special I/O Modules

### C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Motion Control Modules 	G-language programmable, two-axis analog outputs	Yes	Yes	Yes	No	Yes	0 to F	U, C, CE	<b>C200H-MC221</b>
	MC Support Software IBM PC/AT or compatible	---					---	---	<b>CV500-ZN3AT1-E</b>
	Connecting Cable: 3.3 m	---					---	---	<b>CV500-CIF01</b>
	Teaching Box	---					---	U, C, CE	<b>CVM1-PRO01</b>
	Connection cable for Teaching Box: 2 m long	---					---	CE	<b>CV500-CN224</b>
	Memory Pack	---					---	U, C, CE	<b>CVM1-MP702</b>
	Terminal Block Conversion Module simplifies wiring.	---					---	---	<b>XW2B-20J6-6</b>
	Connecting Cable for Terminal Block Conversion Unit	---					---	---	<b>XW2Z-100J-F1</b>
Position Control Modules 	One-axis pulse-train open-collector output	Yes	Yes	Yes	No	Yes	0 to F	U, C, CE	<b>C200HW-NC113</b>
	Two-axis pulse-train open-collector output	Yes	Yes	Yes	No	Yes	---	---	<b>C200HW-NC213</b>
	Four-axis pulse-train open-collector output	Yes	Yes	Yes	No	Yes	---	---	<b>C200HW-NC413</b>
	NC Support Software (SYSMAC-NCT)	---					---	---	<b>WS01-NCTF1-E</b>
	Peripheral Port Connecting Cables for computer	---					---	CE	<b>CS1W-CN226 (2 m)</b>

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C200H Special I/O Modules (continued)

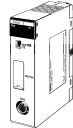




Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Position Control Modules 	Peripheral Port Connecting Cables for computer	---	---	---	---	---	---	CE	CS1W-CN626 (6 m)
	RS-232C Port Connecting Cables for computer	---	---	---	---	---	---	---	XW2Z-200S-CV (2 m) NCT V1.11 or earlier
									XW2Z-500S-CV (5 m) NCT V1.11 or earlier
									XW2Z-200S (2 m) (See note 1.)
									XW2Z-500S (5 m) (See note 1.)
	1-axis Relay Unit for C200HW-NC113								XW2B-20J6-1B
	2-axis Relay Unit for C200HW-NC213/NC413								XW2B-40J6-2B
	1-axis U, H, M Connecting Cables for C200HW-NC113								XW2Z-050J-A6 (0.5 m)
									XW2Z-100J-A6 (1 m)
	2-axis U, H, M Connecting Cables for C200HW-NC213/NC413								XW2Z-050J-A7 (0.5 m)
									XW2Z-100J-A7 (1 m)
	1-axis UEP Connecting Cables for C200HW-NC113								XW2Z-050J-A8 (0.5 m)
									XW2Z-100J-A8 (1 m)
2-axis UEP Connecting Cables for C200HW-NC213/NC413	---	---	---	---	---	---	---	XW2Z-050J-A9 (0.5 m)	
								XW2Z-100J-A9 (1 m)	

(This table continues on the next page.)

**Note** 1. A 25-pin to 9-pin adapter is required to connected to a 9-pin, D-sub RS-232C connector on an IBM PC/AT or compatible.

## Special I/O Modules

### C200H Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
 ID Sensor Modules	Electromagnetic coupling	Yes	Yes	Yes	No	Yes	0 to 9	U, C	<b>C200H-IDS01-V1</b>
	Microwave type	Yes	Yes	Yes	No	Yes		---	<b>C200H-IDS21</b>
Fuzzy Logic Unit	Use with Fuzzy Support Software	Yes	Yes	Yes	No	Yes	0 to 9	N	<b>C200H-FZ001</b>
	Fuzzy Support Software (IBM PC/AT or compatible)	---					---	---	<b>C500-SU981-E</b>
 DeviceNet Master Unit (See note 1.)	DeviceNet Remote I/O Master, 300 bits max.	Yes	Yes	Yes	No	No	0 to F	U, C, N, L, CE	<b>C200HW-DRM21-V1</b>
 DeviceNet I/O Link Unit	DeviceNet Remote I/O Slave, 64 bits max.	Yes	Yes	Yes	No	No	0 to F	U, C, N, CE	<b>C200HW-DRT21</b>
Profibus-DP Master Unit	Profibus-DP Remote I/O Master, 30 words max.	Yes	Yes	Yes	No	No	0 to F	CE	<b>C200HW-PRM21</b>
Profibus-DP I/O Link Unit	Profibus-DP Remote I/O Slave, 100 words in max. 100 words out max.	Yes	Yes	Yes	No	No	0 to F	CE	<b>C200HW-PRT21</b>
 CompoBus/S Master Modules	CompoBus/S Remote I/O, 256 bits max.	Yes	Yes	Yes	No	No	0 to F	U, C, N, L, CE	<b>C200HW-SRM21-V1</b>
 PC Link Unit (See note 2.)	PC Link, single level: 32 Modules, multilevel: 16 Modules	Yes	Yes	Yes	No	No	0 to 9	N, L, CE	<b>C200H-LK401</b>

**Note** 1. The DeviceNet Slaves are allocated up to 2,048 I/O bits (100 words) in the DeviceNet Area.

2. PC Link Modules are allocated up to 1,024 bits (64 words) in the Link Area.

■ CS1 Special I/O Modules

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Customizable Counter Modules	Pulse input: 2 pts Pulse output: 2 pts Contact input: 12 pts Contact output: 8 pts	Yes	No	Yes	Yes	No	0 to 95	U, C, CE	CS1W-HCP22
	Pulse input: 2 pts Analog output: 2 pts Contact input: 12 pts Contact output: 8 pts								CS1W-HCA22
	Contact input: 12 pts Contact output: 8 pts								CS1W-HIO01
ID Sensor Modules	Single head unit	Yes	No	Yes	Yes	No	0 to 95	U, CE	CS1W-V600C11
	Double head unit	Yes	No	Yes	Yes	No	0 to 94	U, CE	CS1W-V600C12
Analog Input Modules	4 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000	Yes	No	Yes	Yes	No	0 to 95	UC, N, L, CE, CID2	CS1W-AD041-V1
	8 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000	Yes	No	Yes	Yes	No	0 to 95	UC, N, L, CE, CID2	CS1W-AD081-V1
Analog Output Modules	4 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000	Yes	No	Yes	Yes	No	0 to 95	U, C, N, L, CE	CS1W-DA041
	8 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000								CS1W-DA08V
	8 outputs (4 to 20 mA) Resolution: 1/4,000								CS1W-DA08C
Analog I/O Unit	4 inputs (4 to 20 mA, 1 to 5 V, etc.) 4 outputs (1 to 5 V, 0 to 10 V, etc.)	Yes	No	Yes	Yes	No	0 to 95	U, C, N, L, CE	CS1W-MAD44

(This table continues on the next page.)

## Special I/O Module


### CS1 Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
Process I/O Modules									
Isolated Thermocouple Input Unit	4 inputs, B, E, J, K, N, R, S, T $\pm 80$ mV	Yes	No	Yes	Yes	No	0 to 95	UC, CE, CID2	<b>CS1W-PTS01-V1</b>
Isolated Temperature-resistance Thermometer Input Unit	4 inputs, Pt100, JPt								<b>CS1W-PTS02</b>
Isolated Temperature-resistance Thermometer Input Unit (Ni508.4 $\Omega$ )	4 inputs, Ni508.4 $\Omega$								<b>CS1W-PTS03</b>
Isolated Two-wire Transmission Device Input Unit	4 inputs, 4 to 20 mA, 1 to 5 V								<b>CS1W-PTW01</b>
Isolated DC Input Unit	4 inputs, 4 to 20 mA, 1 to 5 V, 0 to 5 V, $\pm 5$ V, 0 to 10 V, $\pm 10$ V								<b>CS1W-PDC01</b>
Isolated Pulse Input Unit	4 inputs								<b>CS1W-PPS01</b>
Isolated Control Output Unit	4 outputs, 4 to 20 mA, 1 to 5 V								<b>CS1W-PMV01</b>
Power Transducer Input Unit	8 inputs, 0 to 1 mA, $\pm 1$ mA								<b>CS1W-PTR01</b>
100-mV DC Input Unit	8 inputs, 0 to 100 mA, $\pm 100$ mV								<b>CS1W-PTR02</b>
Support Software	Setting tool software for the Processing I/O Modules, OS: Windows 95, 98, NT 4.0 (see note)	---					---	---	<b>WS02-PUTC1-E</b>

(This table continues on the next page.)



CS1 Special I/O Modules (continued)

Name	Specifications	Mountable Racks					Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks			
High-speed Counter Modules	Pulse input: 2 pts Counting speed: 500 kcps max.	Yes	No	Yes	Yes	No	0 to 92	U, C, CE	CS1W-CT021
	Pulse input: 4 pts Counting speed: 500 kcps max.								CS1W-CT041
	SSI encoder input: 2 pts counting speed: 1.5 mHz max.	Yes	No	Yes	Yes	No	0 to 94	CE	CS1W-CTS21
Motion Control Modules 	4 axes, analog outputs, G language	Yes	No	Yes	Yes	No	0 to 93	U, C, CE	CS1W-MC421
	2 axes, analog outputs, G language								CS1W-MC221
MC Support Software	Windows 95, 98, or NT	---					---	---	WS02-MCTC1-EV2
Computer Connecting Cables	Peripheral port on CPU Unit	---						CE	CS1W-CN226 (2 m)
									CS1W-CN626 (6 m)
	RS-232C port on CPU Unit							---	XW2Z-200S-CV (2 m)
								XW2Z-500S-CV (5 m)	
Teaching Box	---						U, C, CE	CVM1-PRO01	
Teaching Box Connecting Cable (2 m)							CE	CV500-CN224	
Memory Pack							U, C, CE	CVM1-MP702	
MC Terminal Block Conversion Unit for 2 Axes (simplifies wiring I/O connectors)							---	XW2B-20J6-6	
MC Terminal Block Conversion Unit for 4 Axes (simplifies wiring I/O connectors)								XW2B-40J6-7	
MC Terminal Block Conversion Unit Cable								XW2Z-100J-F1	

**Note:** Setting tool software for the Processing I/O Modules also supports CS1W-AD□□□, CS1WS-DA□□□, and CS1W-MAD44.

## CPU Bus Modules

### CS1 CPU Bus Modules (Continued)

Name	Specifications	Mountable Racks					Words allocated (CIO 1500 to CIO 1899)	Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks				
Controller Link Modules	Twisted pair	Yes	No	Yes	Yes	No	25 words	0 to F	UC, N, L, CE, CID2	CS1W-CLK21-V1
	Optical ring (H-PCF cable)	Yes	No	Yes	Yes	No	25 words			CS1W-CLK12-V1
	Optical ring (GI cable)	Yes	No	Yes	Yes	No	25 words			CS1W-CLK52-V1
Controller Link Support Board	For PCI Bus (wire type), with Support Software	---					---	---	CE	3G8F7-CLK21-EV1
	For PCI Bus (H-PCF optical type), with Support Software	---					---			3G8F7-CLK12-EV1
	For PCI Bus (GI optical type)	---					---			3G8F7-CLK52-EV1
SYSMAC LINK Modules	Coaxial cable (5C-2V cable)	Yes	No	Yes	Yes	No	25 words	0 to F	U, C, CE	CS1W-SLK21
	Optical cable (H-PCF cable)						25 words			U, C, N, CE
SYSMAC LINK Support Boards	For PCI Bus (coaxial type), with Support Software	---					---	---	CE	3G8F7-SLK21-E
	For PCI Bus (H-PCF optical type), with Support Software	---					---			3G8F7-SLK11-E
Serial Communications Unit	Two RS-232C Ports	Yes	No	Yes	Yes	No	25 words	0 to F	U, C, N, L, CE	CS1W-SCU21-V1
RS-232C-RS-422A Conversion Unit	1 RS-232C port and 1 RS-422A terminal block	---					---	---	---	NT-AL001
Ethernet Unit	100Base-TX	Yes	No	Yes	Yes	No	25 words	0 to F	UC, CE, CID2	CS1W-ETN21
DeviceNet Unit	Functions as master and/or slave; allows control of 2,048 points max. per master.	Yes	No	Yes	Yes	No	---	0 to F	U, C, CE	CS1W-DRM21

(This table continues on the next page.)

CS1 CPU Bus Modules (continued)

Name	Specifications	Mountable Racks					Words allocated (CIO 1500 to CIO 1899)	Unit No.	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	CS1 Long-distance Racks	SYSMAC BUS Slave Racks				
CX-Process	For Loop Control Unit, Programming Tool and Monitor Tool software, OS for Tool: Windows 95, 98, NT 4.0, OS for Monitor: Windows NT 4.0 (License key sold separately)	---	---	---	---	---	---	---	WS02-LCTC1-E	
License Key for Monitor Software	Hardware key for Monitor software, with license	---	---	---	---	---	---	---	WS02-LCTK1-EL01	
Peripheral Device Connecting Cables (for peripheral port)	Connects DOS computers, D-Sub 9-pin receptacle (Length: 0.1 m) (Conversion cable to connect RS-232C cable to peripheral port)	---	---	---	---	---	---	CE	CS1W-CN118	
	Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	---	---	---	---	---	---		CS1W-CN226	
	Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 6.0 m)	---	---	---	---	---	---		CS1W-CN626	
Peripheral Device Connecting Cables (for RS-232C port)	Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)	---	---	---	---	---	---	---	C200H-CN229-EU	
									CBL-202*	
USB to Serial 9-pin Adapter	Converts PC USB port to a PC serial 9-pin port for use with Omron serial cables	---	---	---	---	---	---	---	CS1W-C1F31	

\* Available in Canada only.

## DeviceNet

### ■ DeviceNet Configurator

Name	Specifications	Standards	Part number
DeviceNet Configurator	Software only (Windows 95, 98, NT 4.0, or 2000)	---	<b>WS02-CFDC1-E</b>
	ISA board with software (Windows 95, 98, or NT 4.0)	---	<b>3G8F5-DRM21-E</b>
	PC card with software (Windows 95, 98, ME, 2000, XP)		<b>3G8E2-DRM21-EV1</b>

### ■ Setting and Monitoring Software

Name	Specifications	Standards	Part number
NX-Server	DDE edition	---	<b>WS02-NXD1-E</b>

### ■ DeviceNet Slaves

Slave	Specifications	Standards	Part number
Programmable Slaves	Controller with SYSMAC CPM2C CPU No. of remote I/O link points: 1,024 max. Provides CompoBus/S Master.	U, C, CE	<b>CPM2C-S100C-DRT</b>
	4 transistor outputs (sinking)		<b>CPM2C-S110C-DRT</b>
I/O Link Modules	512 internal inputs/512 internal outputs (between CS1 or C200HX/HG/HE PLC and Master)		<b>C200HW-DRT21</b>
	16 internal inputs/16 internal outputs (between CQM1/CQM1H PLC and Master)		<b>CQM1-DRT21</b>
	32 internal inputs/32 internal outputs (between CPM1A/CPM2A PLC and Master)		<b>CPM1A-DRT21</b>
Remote Transistor I/O Terminals	8 inputs (NPN, + common)		<b>DRT1-ID08</b>
	8 inputs (PNP, - common)		<b>DRT1-ID08-1</b>
	8 outputs (NPN, - common)		<b>DRT1-OD08</b>
	8 outputs (PNP, + common)		<b>DRT1-OD08-1</b>
	16 inputs (NPN, + common)		<b>DRT1-ID16</b>
	16 inputs (PNP, - common)		<b>DRT1-ID16-1</b>
	16 outputs (NPN, - common)		<b>DRT1-OD16</b>
	16 outputs (PNP, + common)		<b>DRT1-OD16-1</b>
	8 input points (NPN with + common) 8 input points (NPN with - common)		<b>DRT1-MD16</b>

(This table continues on the next page.)