PRODUCT PERFORMANCE STANDARDS

OMRON devices that comply with EC Directives also conform to the related EMC standards so that they can be more easily built into other devices or the overall machine. The actual products have been checked for conformity to EMC standards (see the following note). Whether the products conform to the standards in the system used by the customer, however, must be confirmed by the customer.

EMC-related performance of the OMRON devices that comply with EC Directives will vary depending on the configuration, wiring, and other conditions of the equipment or control panel on which the OMRON devices are installed. The customer must, therefore, perform the final check to confirm that devices and the overall machine conform to EMC standards.

Applicable EMC Standards

EMS (Electromagnetic Susceptibility): EN61131-2

EMI (Electromagnetic Interference): EN50081-2

(Radiated emission: 10-m regulations)

OMRON Power Supply Modules and I/O Modules have been determined safe when operating at voltages of 50 to 1,000 VAC and 75 to 1,500 VDC according to the safety standards in EN61131-2.

Standards Description

U = UL, Underwriters Laboratories, Inc.

C = CSA, Canadian Standards Association

CE = CE, CE Marking

N = Nemko, Norges Elektriske Materiellkontroll

L = Lloyd's Register of shipping

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

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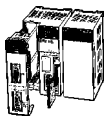
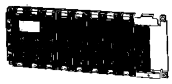
CPU Rack

Item	Description			Standards	Part number
CPUs 	I/O bits	Program capacity	Data memory capacity	—	—
	960	10K steps	32K words (DM: 32K words, EM: None)	U, C, N, CE, L	**CS1G-CPU42-E(V□)**
	960	20K steps	32K words (DM: 32K words, EM: None)		**CS1G-CPU43-E(V□)**
	1280	30K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1G-CPU44-E(V□)**
	5120	60K steps	128K words (DM: 32K words, EM: 32K words ×3 banks)		**CS1G-CPU45-E(V□)**
	5120	20K steps	32K words (DM: 32K words, EM: None)		**CS1H-CPU63-E(V□)**
	5120	30K steps	64K words (DM: 32K words, EM: 32K words ×1 bank)		**CS1H-CPU64-E(V□)**
	5120	60K steps	128K words (DM: 32K words, EM: 32K words ×3 banks)		**CS1H-CPU65-E(V□)**
	5120	120K steps	256K words (DM: 32K words, EM: 32K words ×7 banks)		**CS1H-CPU66-E(V□)**
	5120	250K steps	448K words (DM: 32K words, EM: 32K words ×13 banks)		**CS1H-CPU67-E(V□)**
CPU Racks	2 slots (does not connect to Expansion Rack)			U, C, N, CE, L	**CS1W-BC023**
	3 slots				**CS1W-BC033**
	5 slots				**CS1W-BC053**
	8 slots				**CS1W-BC083**
	10 slots				**CS1W-BC103**
Power Supplies	100 to 120 VAC or 200 to 240 VAC; output capacity: 4.6 A, 5 VDC			U, C, N, L, CE	**C200HW-PA204**
	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				**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**
	100 to 120 VAC or 200 to 240 VAC (with RUN output) Output capacity: 9 A, 5 VDC			CE, L	**C200HW-PA209R**
	24 VDC, Output capacity: 4.6 A, 5 VDC			U, C, N, L, CE	**C200HW-PD024**
Memory Cards	Flash memory, 8 MB			CE, L	**HMC-EF861**
	Flash memory, 15 MB				**HMC-EF171**
	Flash memory, 30 MB				**HMC-EF371**
	Memory Card adapter				**HMC-AP001**
Serial Communications Boards	2 × RS-232C ports (protocol macro function supported)			U, C, N, CE, L	**CS1W-SCB21**
	1 × RS-232C port + 1 × RS-422/485 port (protocol macro function supported)				**CS1W-SCB41**
Programming Consoles	Requires an English Keyboard Sheet (CS1W-KS001-E). (connects to the peripheral port on CPU Module only)			U, C, N, CE,	**CQM1-PRO01-E**
					C200H-PRO27-E
Programming Console Connecting Cables	Connects the CQM1-PRO01-E Programming Console. (0.05 m length) (adapter cable used with cable included with COM-PRO01-E)			CE	**CS1W-CN114**
	Connects the C200H-PRO27-E Programming Console. (2.0 m length)				**CS1W-CN224**
	Connects the C200H-PRO27-E Programming Console. (6.0 m length)				**CS1W-CN624**
CX-Programmer Software	Windows-based Programming Software for Windows 95, 98, NT4.0 (connects to peripheral port on CPU Module or RS-232C port on CPU Module or Serial Communications Module/Board.)			—	**WS02-CXPC1-EV□.□**
CX-Protocol	Windows-based Protocol Development Software for Windows 95, 98, NT4.0			—	**WS02-PSTC1-E**
Peripheral Device Connecting Cables (for peripheral port)	Connects Standard IBM PC/AT compatible computers D-Sub 9-pin receptacle (Length: 0.1 m)			CE	**CS1W-CN118** (See Note.)
	Connects Standard IBM PC/AT compatible computers D-Sub 9-pin (2.0 m length)				**CS1W-CN226**
	Connects Standard IBM PC/AT compatible computers D-Sub 9-pin (6.0 m length)				**CS1W-CN626**
Peripheral Device Connecting Cables (for RS-232C port)	Serial Connecting Cable Connects Standard IBM PC/AT compatible computers D-Sub 9-pin (2.0 m length)			—	**C200HS-CN220-EU**
Battery Set	For CS1 Series only; provides backup to CPU memory			CE, L	**CS1W-BAT01**

Note: This is an adapter cable that is to be used with Omron Cable No. C200HS-CN220EU.

Expansion Racks

Item	Description		Standards	Part number
CS1 Expansion I/O Racks	3 slots		U, C, N, CE	**CS1W-BI033**
	5 slots			**CS1W-BI053**
	8 slots			**CS1W-BI083**
	10 slots			**CS1W-BI103**
C200HW Expansion I/O Racks 	3 slots		U, C, N, L, CE	**C200HW-BI031**
	5 slots			**C200HW-BI051**
	8 slots			**C200HW-BI081**
	10 slots			**C200HW-BI101**
Power Supplies	100 to 120 VAC or 200 to 240 VAC, Output capacity: 4.6 A, 5 VDC		U, C, N, L, CE	**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, 19.2 to 23.8 VDC Output capacity:4.6A, 5 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		CE, L	**C200HW-PA209R**
CS1 to CS1 Expansion I/O Rack Connecting Cables	Connects CS1 Expansion I/O Racks to CPU (CS1) Racks or other CS1 Expansion I/O Racks.	Length: 0.3 m	—	**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**
CS1 to C200HW Expansion I/O Rack Connecting Cables	Connects C200HW Expansion I/O Racks to CPU (CS1) Racks or CS1 Expansion I/O Racks.	Length: 0.3 m	—	**CS1W-CN311**
		Length: 0.7 m		**CS1W-CN711**
		Length: 2 m		**CS1W-CN221**
		Length: 3 m		**CS1W-CN321**
		Length: 5 m		**CS1W-CN521**
		Length: 10 m		**CS1W-CN131**
		Length: 12 m		**CS1W-CN131-B2**
C200HW to C200HW Expansion I/O Rack Connecting Cables	Connects C200HW Expansion I/O Racks to other C200HW Expansion I/O Racks.	Length: 0.3 m	N, L, CE, U	**C200H-CN311**
		Length: 0.7 m		**C200H-CN711**
		Length: 2 m		**C200H-CN221**
		Length: 5 m	L, CE	**C200H-CN521**
		Length: 10 m		**C200H-CN131**

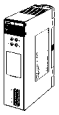
Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

C200H Basic I/O Modules

Item	Description	Mountable racks				Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU rack	C200H expansion I/O racks	CS1 expansion racks	SYSMAC BUS slave racks			
DC Input Modules	12 VDC, 64 pt	Yes	Yes	Yes	Yes	64	U, CE	**C200H-ID111**
	12 to 24 VDC, 8 inputs	Yes	Yes	Yes	Yes	16	U, C, N, L, CE	**C200H-ID211**
	24 VDC, 16 inputs	Yes	Yes	Yes	Yes	16		**C200H-ID212**
AC Input Modules	100 to 120 VAC, 8 inputs	Yes	Yes	Yes	Yes	16	U, C, N, L	**C200H-IA121**
	100 to 120 VAC, 16 inputs	Yes	Yes	Yes	Yes	16	CE	**C200H-IA122**
	200 to 240 VAC, 8 inputs	Yes	Yes	Yes	Yes	16	U, C, N, L	**C200H-IA221**
	200 to 240 VAC, 16 inputs	Yes	Yes	Yes	Yes	16	CE	**C200H-IA222**
AC/DC Input Modules	12 to 24 VAC/VDC, 8 inputs	Yes	Yes	Yes	Yes	16	U, C, N, L, CE	**C200H-IM211**
	24 VAC/VDC, 16 inputs	Yes	Yes	Yes	Yes	16		**C200H-IM212**
B7A Input Modules	16 inputs	Yes	Yes	Yes	Yes	16	U, C, CE	**C200H-B7AI1**
	32 inputs (C200H group-2 Module)	Yes	Yes	Yes	No	32	U, C	**C200H-B7A12**
Interrupt Input Module	12 to 24 VDC, 8 inputs	Yes	No	No	No	16	U, C, CE	**C200HS-INT01**
Relay Output Modules	250 VAC/24 VDC, 2 A, 8 outputs max.	Yes	Yes	Yes	Yes	16	U, C, N, CE	**C200H-OC221**
	250 VAC/24 VDC, 2 A, 12 outputs max.	Yes	Yes	Yes	Yes	16		**C200H-OC222**
	250 VAC/24 VDC, 2 A, 16 outputs max.	Yes	Yes	Yes	Yes	16	U, C, N, L, CE	**C200H-OC225**
	250 VAC/24 VDC, 2 A, 16 outputs max.	Yes	Yes	Yes	Yes	16		**C200H-OC226**
	250 VAC/24 VDC, 2 A, isolated contacts, 5 outputs max.	Yes	Yes	Yes	Yes	16	U, C, N, L	**C200H-OC223**
	250 VAC/24 VDC, 2 A, isolated contacts, 8 outputs max.	Yes	Yes	Yes	Yes	16		**C200H-OC224**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

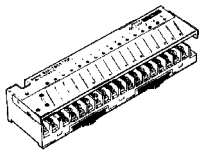
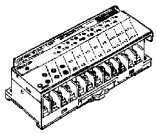
C200H Basic I/O Modules

Item	Description	Mountable racks				Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU rack	C200H expansion I/O racks	CS1 expansion racks	SYSMAC BUS slave racks			
Transistor Output Modules	12 to 48 VDC, 1 A, 8 sinking outputs	Yes	Yes	Yes	Yes	16	U, C, N, L, CE	**C200H-OD411**
	24 VDC, 2.1 A, 8 sinking outputs	Yes	Yes	Yes	Yes	16		**C200H-OD213**
	24 VDC, 0.8 A, 8 sourcing outputs, load short-circuit protection.	Yes	Yes	Yes	Yes	16	U, C, N, L	**C200H-OD214**
	5 to 24 VDC, 0.3 A, 8 sourcing outputs	Yes	Yes	Yes	Yes	16		**C200H-OD216**
	5 to 24 VDC, 0.3 A, 12 sinking outputs	Yes	Yes	Yes	Yes	16	U, C, N, L, CE	**C200H-OD211**
	24 VDC, 0.3 A, 12 sourcing outputs	Yes	Yes	Yes	Yes	16		**C200H-OD217**
	24 VDC, 0.3 A, 16 sinking outputs	Yes	Yes	Yes	Yes	16		**C200H-OD212**
	24 VDC, 1 A, 16 sourcing outputs, load short-circuit protection.	Yes	Yes	Yes	Yes	16	CE, U	**C200H-OD21A**
B7A Output Modules	16 outputs	Yes	Yes	Yes	Yes	16	U, C, CE	**C200H-B7AO1**
	32 outputs (C200H group-2 Module)	Yes	Yes	Yes	No	32	U, C	**C200H-B7A02**
B7A Mixed I/O Modules	16 inputs, 16 outputs (C200H group-2 Module)	Yes	Yes	Yes	No	32	U, C	**C200H-B7A21**
	32 inputs, 32 outputs (C200H group-2 Module)	Yes	Yes	Yes	No	64	U, C	**C200H-B7A22**
Triac Output Module	120 VAC, 1.2 A, 8 outputs	Yes	Yes	Yes	Yes	8	CE	**C200H-OA122E**
	250 VAC, 1.0 A, 8 outputs	Yes	Yes	Yes	Yes	16	CE	**C200H-OA221**
	250 VAC, 1.2 A, 8 outputs	Yes	Yes	Yes	Yes	16	CE	**C200H-OA223**
	250 VAC, 0.3 A, 12 outputs	Yes	Yes	Yes	Yes	16	CE, U	**C200H-OA222**
	250 VAC, 0.5 A, 12 outputs	Yes	Yes	Yes	Yes	16	U, C, N, L	**C200H-OA224**
Analog Timer Module 	4-point timer	Yes	Yes	Yes	Yes	16	U, C	**C200H-TM001**
	External variable resistor connector	—					—	**C4K-CN223**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

Note: The C200H-ID001 (no-voltage contacts, 8 inputs, NPN) and C200H-ID002 (no-voltage contacts, 8 inputs, PNP) cannot be used. (As a general reference, see the Non-compatible Models section within this Ordering Guide.)

B7A Transistor I/O Link Modules

Item/Description						Part number
Appearance	I/O classification	I/O configuration	I/O delay (typical)	Internal I/O common	Error processing (See Note 1.)	
	Input, 16 points	NPN compatible	Normal speed 19.2 ms	– common	—	**B7A-T6A1** (See Note 2.)
				+/– common	—	**B7A-T6B1** (See Note 2.)
		PNP compatible		+/– common	—	**B7A-T6C1**
		NPN compatible	High speed 3 ms	– common	—	**B7A-T6A6** (See Note 2.)
				+/– common	—	**B7A-T6B6** (See Note 2.)
		PNP compatible		+/– common	—	**B7A-T6C6**
	Output, 16 points	NPN open collector 100 mA/point	Normal speed 19.2 ms	+ common	HOLD	**B7A-R6B11**
					LOAD OFF	**B7A-R6B31**
		NPN open collector 500 mA/point (See Note 3.)			HOLD	**B7A-R6C11**
					LOAD OFF	**B7A-R6C31**
		PNP open collector 100 mA/point		– common	HOLD	**B7A-R6F11**
					LOAD OFF	**B7A-R6F31**
		PNP open collector 500 mA/point (See Note 4.)			HOLD	**B7A-R6G11**
					LOAD OFF	**B7A-R6G31**
		NPN open collector 100 mA/point	High speed 3 ms	+ common	HOLD	**B7A-R6B16**
					LOAD OFF	**B7A-R6B36**
		NPN open collector 500 mA/point (See Note 3.)			HOLD	**B7A-R6C16**
					LOAD OFF	**B7A-R6C36**
		PNP open collector 100 mA/point		– common	HOLD	**B7A-R6F16**
					LOAD OFF	**B7A-R6F36**
		PNP open collector 500 mA/point (See Note 4.)			HOLD	**B7A-R6G16**
					LOAD OFF	**B7A-R6G36**
	Input, 16 points	NPN compatible	Normal speed 19.2 ms	+/– common	—	**B7AS-T6B1**
			High speed 3 ms		—	**B7AS-T6B6**
	Output, 16 points	NPN open collector 100 mA/point	Normal speed 19.2 ms		HOLD	**B7AS-R6B11**
					LOAD OFF	**B7AS-R6B31**
			High speed 3 ms		HOLD	**B7AS-R6B16**
					LOAD OFF	**B7AS-R6B36**

Note: 1. HOLD: The previous output condition will be on hold when an error occurs.
LOAD OFF: All outputs will be OFF when an error occurs.

2. The 16-point B7A-T6A□ and 16-point B7A-T6B□ are different from each other in terminal configuration.

3. N-channel MOSFET open drain output

4. P-channel MOSFET open drain output

C200H Basic I/O Modules

B7A Link Master Adapters for C200H High-density I/O Modules and Group-2 High-density I/O Modules

Item/Description						Part number
Appearance	I/O classification	I/O configuration	I/O delay (typical)	Internal I/O Common	Error processing	
	Input, 16 points	NPN compatible	Normal speed 19.2 ms	NA	—	**B7A-T6E3**
			High speed 3 ms	NA	—	**B7A-T6E8**
	Output, 16 points	NPN open collector 50 mA/point	Normal speed 19.2 ms	NA	HOLD	**B7A-R6A13**
					LOAD OFF	**B7A-R6A33**
			High speed 3 ms	NA	HOLD	**B7A-R6A18**
					LOAD OFF	**B7A-R6A38**
	Input, 32 points	NPN compatible	Normal speed 19.2 ms	NA	—	**B7A-T3E3**
			High speed 3 ms	NA	—	**B7A-T3E8**
	Output, 32 points	NPN open collector 50 mA/point	Normal speed 19.2 ms	NA	HOLD	**B7A-R3A13**
					LOAD OFF	**B7A-R3A33**
			High speed 3 ms	NA	HOLD	**B7A-R3A18**
					LOAD OFF	**B7A-R3A38**

C200H High-density I/O Modules

Item	Description	Mountable racks				Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
DC Input Modules	24 VDC, 32 inputs	Yes	Yes	Yes	Yes	U, C, N, L, CE	**C200H-ID215**
TTL Input Modules	5 VDC, 32 inputs	Yes	Yes	Yes	Yes		**C200H-ID501**
Transistor Output Modules	24 VDC, 32 sinking outputs	Yes	Yes	Yes	Yes		**C200H-OD215**
TTL Output Modules	5 VDC, 32 sinking outputs	Yes	Yes	Yes	Yes		**C200H-OD501**
TTL I/O Modules	5 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	Yes		**C200H-MD501**
DC Input/Transistor Output Modules	24 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	Yes		**C200H-MD215**
	12 VDC, 16 inputs, 16 sinking outputs	Yes	Yes	Yes	Yes	U, C	**C200H-MD115**

Connectors for C200H High-density I/O Modules

Item	Connection	Fujitsu parts	Standards	Part number
Applicable Connectors	Solder-type (included with Module)	Socket: FCN-361J024-AU Connector bar: FCN-360C024-J2	—	**C500-CE241**
	Crimp-type	Socket: FCN-363J024 Connector bar: FCN-360C024-J2 Contacts: FCN-363J-AU		**C500-CE242**
	Ribbon-crimp	—		**C500-CE243**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

C200H Group-2 High-density I/O Modules

Item	Description	Mountable racks				Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU rack	C200H expansion I/O racks	CS1 expansion racks	SYSMAC BUS slave racks			
DC Input Modules	24 VDC, 32 inputs	Yes	Yes	Yes	No	32	U, C, N, L, CE	**C200H-ID216**
	24 VDC, 64 inputs	Yes	Yes	Yes	No	64		**C200H-ID217**
	24 VDC, 32 inputs	Yes	Yes	Yes	No	32	U, C, CE	**C200H-ID218**
	12 VDC, 64 inputs	Yes	Yes	Yes	No	64	U, C	**C200H-ID111**
Transistor Output Modules	16 mA/4.5 V, or 100 mA/26.4 V, 32 sinking outputs	Yes	Yes	Yes	No	32	U, C, N, L, CE	**C200H-OD218**
	16 mA/4.5 V, or 100 mA/26.4 V, 64 sinking outputs	Yes	Yes	Yes	No	64		**C200H-OD219**
	24 VDC, O.SA, 32 sourcing outputs, load short-circuit protection	Yes	Yes	Yes	No	32	U, C, CE	**C200H-OD21B**

Connectors for C200H Group-2 High-density I/O Modules

Item	Connection	Fujitsu parts	Standards	Part number
Applicable Connector	Solder-type (included with Module)	Socket: FCN-361J040-AU Connector bar: FCN-360C040-J2	—	**C500-CE404**
	Crimp-type	Socket: FCN-363J040 Connector bar: FCN-360C040-J2 Contacts: FCN-363J-AU		**C500-CE405**
	Ribbon-crimp type	FCN-367J040-AU		**C500-CE403**

CS1 High-density I/O Modules

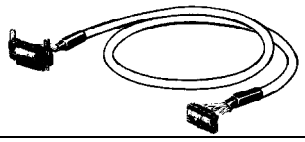
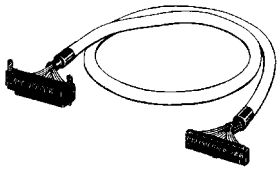
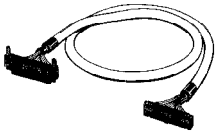
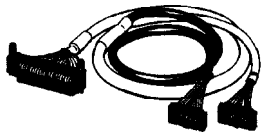
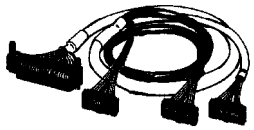
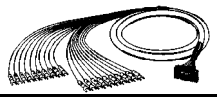
Item	Description	Mountable racks				Bits allocated (CIO 0000 to CIO 0319)	Standards	Part number
		CPU rack	C200H expansion I/O racks	CS1 expansion racks	SYSMAC BUS slave racks			
DC Input Modules	24 VDC, 96 inputs	Yes	No	Yes	No	96	U, C, N, CE, L	**CS1W-ID291**
Transistor Output Modules	12 to 24 VDC, 0.1 A, 96 sinking outputs	Yes	No	Yes	No	96	U, C, N, CE, L	**CS1W-OD291**
	12 to 24 VDC, 0.1 A, 96 sourcing outputs	Yes	No	Yes	No	96		**CS1W-OD292**
DC Input/ Transistor Output Modules	24 VDC, 0.1 A, 48 inputs, 48 outputs, sinking inputs/outputs	Yes	No	Yes	No	96 total 48 outputs, 48 inputs		**CS1W-MD291**
	24 VDC, 0.1 A, 48 inputs, 48 outputs, sourcing inputs/outputs	Yes	No	Yes	No	96 total 48 outputs, 48 inputs		**CS1W-MD292**

Connectors for CS1 High-density I/O Modules

Item	Connection	Description	Part number
Applicable Connectors	Solder-type (included with module)	Socket: FCN-361J056-AU Connector bar: FCN-360C056-J2	**CS1W-CE561**
	Crimp-type	Socket: FCN-363J056 Connector bar: FCN-360C056-J2 Contacts: FCN-363J-AU	**CS1W-CE562**
	Ribbon-type	FCN-367J056-AU	**CS1W-CE563**

High-density I/O Screw Terminal Blocks and Cables

Screw Terminal Blocks and Cables

Item/Description			Part number
Appearance	**Applicable terminal block**	Cable length	
Single Cable for 32-pt I/O Modules 	**XW2B-20G5 XW2B-20G4 XW2B-20G5-T XW2B-20G5-D XW2C-20G5-IN16**	0.5 m (1.64 ft)	**XW2Z-050A**
		1 m (3.28 ft)	**XW2Z-100A**
		1.5 m (4.92 ft)	**XW2Z-150A**
		2 m (6.56 ft)	**XW2Z-200A**
		3 m (9.84 ft)	**XW2Z-300A**
		5 m (16.40 ft)	**XW2Z-500A**
Single cable for 32- and 64-pt I/O Modules 	**XW2B-40G5 XW2B-40G4**	0.5 m (1.64 ft)	**XW2Z-050B**
		1 m (3.28 ft)	**XW2Z-100B**
		1.5 m (4.92 ft)	**XW2Z-150B**
		2 m (6.56 ft)	**XW2Z-200B**
		3 m (9.84 ft)	**XW2Z-300B**
		5 m (16.40 ft)	**XW2Z-500B**
Single Cable for CS1W High-density I/O Modules 	**XW2B-60G5 XW2B-60G4**	1 m (3.28 ft)	**XW2Z-100H-1**
		2 m (6.56 ft)	**XW2Z-200H-1**
		3 m (9.84 ft)	**XW2Z-300H-1**
		5 m (16.40 ft)	**XW2Z-500H-1**
Bifurcated Cable for 32- and 64-pt I/O Modules 	**XW2C-20G5-IN16**	1 m (3.28 ft) and 0.75 m (2.46 ft)	**XW2Z-100D**
		1.5 m (4.92 ft) and 1.25 m (4.10 ft)	**XW2Z-150D**
		2 m (6.56 ft) and 1.75 m (5.74 ft)	**XW2Z-200D**
		3 m (9.84 ft) and 2.75 m (9.02 ft)	**XW2Z-300D**
		5 m (16.40 ft) and 4.75 m (15.58 ft)	**XW2Z-500D**
Bifurcated Cable for CS1W High-density I/O Modules	**XW2B-40G5 XW2B-20G5**	1 m (3.28 ft) and 1 m (3.28 ft)	**XW2Z-100H-2**
		2 m (6.56 ft) and 2 m (6.56 ft)	**XW2Z-200H-2**
		3 m (9.84 ft) and 3 m (6.56 ft)	**XW2Z-300H-2**
		5 m (16.40 ft) and 5 m (16.40 ft)	**XW2Z-500H-2**
96-pt connector Cable for CS1W I/O Modules (1:3) 	**Three XW2B-20G5**	1 m (3.28 ft) and 0.75 m (2.45 ft) and 1 m (3.28 ft)	**XW2Z-100H-3**
		2 m (6.56 ft) and 1.75 m (5.74 ft) and 2 m (6.56 ft)	**XW2Z-200H-3**
		3 m (9.84 ft) and 2.75 m (9.02 ft) and 3 m (9.84 ft)	**XW2Z-300H-3**
		5 m (16.40 ft) and 4.75 m (15.58 ft) and 5 m (16.40 ft)	**XW2Z-500H-3**
Single Cable terminated with crimp hooks (for 8-pt or 16-pt modules) 	**XW2B-20G5 XW2B-20G4**	1 m (3.28 ft)	**XW2Z-100F**
		1.5 m (4.92 ft)	**XW2Z-150F**
		2 m (6.56 ft)	**XW2Z-200F**
		3 m (9.84 ft)	**XW2Z-300F**
		5 m (16.40 ft)	**XW2Z-500F**

High-density I/O Relay Blocks, Bases and Dedicated Cables

G7TC Relay I/O Blocks

Item/Description				Part number
I/O classification	I/O points	Internal I/O circuit common	Rated coil voltage	
Input	16 points	NPN (⊖ common)	24 VDC	**G7TC-ID16 DC24V**
				G7TC-ID16-5 DC24V (See Note 1.)
		NPN (⊖ common)	110/120 VAC	**G7TC-IA16 AC110/120V**
				G7TC-IA16-5 AC100/110V (See Note 1.)
			220/240 VAC	**G7TC-IA16 AC220/240V**
Output (See Note 2.)	16 points	NPN (⊕ common)	12 VDC	**G7TC-OC16 DC12V**
			24 VDC	**G7TC-OC16 DC24V**
		PNP (⊖ common)	24 VDC	**G7TC-OC16-1 DC24V**
	8 points	NPN (⊕ common)	12 VDC	**G7TC-OC08 DC12V**
			24 VDC	**G7TC-OC08 DC24V**
		PNP (⊖ common)	24 VDC	**G7TC-C08-1 DC24V**

Note: 1. The "-5" Block is for use with the DRT1-ID16X DeviceNet Remote adapter.
2. Output relays are rated up to 250 VAC. See *Specifications* (within the *G7TC data sheet*) for specific relay ratings.

P7TF block bases and I/O Relays

Combine I/O Relays and P7TF Block Bases to match your application requirements. Use the table below to configure Relay I/O Blocks.

I/O points	Internal I/O circuit	Part number				
		Block Base	I/O Relay		Solid State Relay	
16 inputs (AC coil)	NPN (– common)	**P7TF-IS16 AC110/120V**	1 A	**G7T-1122S AC110/120 or G7T-1122S AC200/220V**	25 mA	**G3TA-IAZR02S AC100/240V**
16 inputs (DC coil)	NPN (– common)	**P7TF-IS16 DC24V**	1 A	**G7T-1122S DC24V**	25 mA	**G3TA-DZR02S DC5-24V**
16 outputs (DC coil)	NPN (+ common)	**P7TF-OS16 DC12V**	5 A	**G7T-1112S DC12V**	2 A	**G3TA-ODX02S 12VDC**
	NPN (+ common)	**P7TF-OS16 DC24V**	5 A	**G7T-1112S DC24V**	2 A	**G3TA-ODX02S DC24V or**
	PNP (– common)	**P7TF-OS16-1 DC24V**	5 A	**G7T-1112S DC24V**	1 A	**G3TA-OD201S DC24V**
8 outputs (DC coil)	NPN (+ common)	**P7TF-OS08 DC12V**	5 A	**G7T-1112S DC12V**	2 A	**G3TA-ODX02S 12VDC**
	NPN (+ common)	**P7TF-OS08 DC24V**	5 A	**G7T-1112S DC24V**	2 A	**G3TA-ODX02S DC24V or**
	PNP (– common)	**P7TF-OS08-1 DC24V**	5 A	**G7T-1112S DC24V**	1 A	**G3TA-OD201S DC24V**

Accessories (order separately)

Item/Description	Part number
Single I/O socket for SPST and SPDT Relays	**P7TF-05**
Indicator module for AC (with varistor surge suppression)	**P70A**
Indicator module for DC (with diode surge suppression)	**P70D**
Output short circuit protection module	**G77-5**
Shorting bar	**G78-04**
Finger protection cover for 16 pt block	**G78-E**

High-density I/O Relay Blocks, Bases and Dedicated Cables

G70A Relay Terminal Block Bases

Relays not included. Order below.

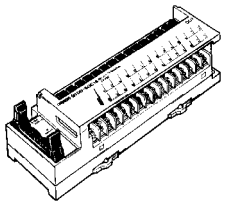
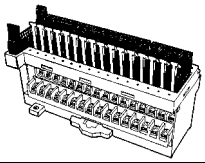
Item/Description				Part number
Classification	PLC Module	Internal I/O circuit	Rated voltage	
Output	C200H-MD215 (16/16) C200H-OD215 (32) C200H-OD218 (32) C200H-OD219 (64) C200H-OD212 (16)	NPN (+ common)	24 VDC	**G70A-ZOC16-3-DC24V**
	C200H-OD214 (8 PNP) C200H-OD217 (12 PNP)	PNP (– common)	24 VDC	**G70A-ZOC16-4-DC24V**
Input	C200H-ID215 (32) C200H-MD215 (16/16) C200H-ID216 (32) C200H-ID217 (64) C200H-ID212 (16)	NPN/PNP	110 VDC max., 240 VAC max. (See Note.)	**G70A-ZIM16-5-DC24V**

Note: Each relay to be mounted must incorporate a coil that has proper specifications within the maximum rated voltage range.

Relays for Use with G70A Bases

Item	**Part number**		
Classification	I/O Block Base	PCB Relay	Solid State Relay
Output	**NPN: G70A-ZOC16-3-DC24V** **PNP: G70A-ZOC16-4-DC24V**	**G2R-1-SND-DC24** **G2R-1-SND-DC12**	**G3R-OA202SZN DC5-24** **G3R-ODX02SN DC5-24** **G3R-OD201SN DC5-24**
Input	**G70A-ZIM16-5-DC24V**	**G2R-1A3-SND-DC24V** **G2R-13-SND-DC24V**	**G3R-IAZR1SN AC100-240** **G3R-IDZR1SN DC12-24** **G3R-IDZR1SN DC5**

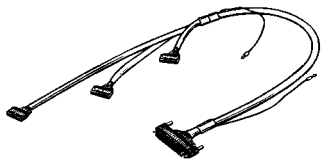
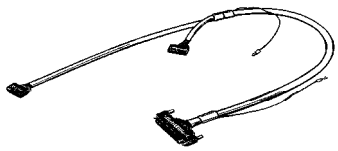
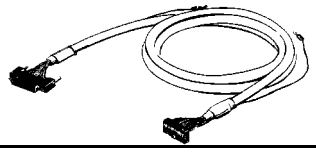
G70D Relay Output Blocks

Item/Description					Part number
Appearance	Output points	Rated voltage	Output type	Internal I/O circuit common	
	16 points (SPST–NO x 16) includes relay pulling tool.	24 VDC	Relay outputs	NPN (+ common)	**G70D-SOC16 DC24**
				PNP (– common)	**G70D-SOC16-1 DC24**
			Power MOSFET relay outputs	NPN (+ common)	**G70D-FOM16**
				PNP (– common)	**G70D-FOM16-1 DC24**
	16 points (SPST–NO x 16)	24 VDC	Relay outputs	NPN (+ common)	**G70D-VSOC16**
			Power MOSFET relay outputs	NPN (+ common)	**G70D-VFOM16**

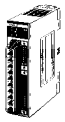
High-density I/O Relay Blocks, Bases and Dedicated Cables

Dedicated Connecting Cables for Omron PLC Modules

The following cables are designed to connect directly to Omron PLC modules and have dedicated connectors for specific models.

Item	Length	Part number
Connecting Cable with three connectors for CS1 Series 96-pt High-density I/O Modules 	1.5 m (4.92 ft) + 1.25 m (4.10 ft) + 1 m (3.28 ft)	**G79-150C-125-100**
	2 m (6.56 ft) + 1.75 m (5.74 ft) + 1.5 m (4.92 ft)	**G79-200C-175-150**
	3 m (9.84 ft) + 2.75 m (9.02 ft) + 2.5 m (8.20 ft)	**G79-300C-275-250**
Connecting Cable with two connectors for C200H 32-pt and 64-pt Group-2 High-density I/O Modules 	1 m (3.28 ft) + 0.75 m (2.46 ft)	**G79-O100C-75**
	1.5 m (4.92 ft) + 1.25 m (4.10 ft)	**G79-O150C-125**
	2 m (6.56 ft) + 1.75 m (5.74 ft)	**G79-O200C-175**
	3 m (9.84 ft) + 2.75 m (9.02 ft)	**G79-O300C-275**
	5 m (16.40 ft) + 4.75 m (15.58 ft)	**G79-O500C-475**
Connecting Cable with one connector for C200H 32-pt High-density I/O Modules 	1 m (3.28 ft)	**G79-100C**
	1.5 m (4.92 ft)	**G79-150C**
	2 m (6.56 ft)	**G79-200C**
	3 m (9.84 ft)	**G79-300C**
	5 m (16.40 ft)	**G79-500C**

C200H Special I/O Modules

Item	Description	Mountable racks				Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Temperature Control Modules	Thermocouple input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	Yes	U, C	**C200H-TC001**
	Thermocouple input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	Yes	U	**C200H-TC002**
	Thermocouple input, PID current output	Yes	Yes	Yes	Yes		**C200H-TC003**
	RTD input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	Yes		**C200H-TC101**
	RTD input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	Yes		**C200H-TC102**
	RTD input, PID current output	Yes	Yes	Yes	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.	—				U	**C200H-DSC01**
	Connecting Cable, 2 m	—				—	**C200H-CN225**
	Connecting Cable, 4 m	—					**C200H-CN425**
Heat/Cool Temperature Control Modules 	Thermocouple input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	Yes	U	**C200H-TV001**
	Thermocouple input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	Yes		**C200H-TV002**
	Thermocouple input, PID current output	Yes	Yes	Yes	Yes		**C200H-TV003**
	RTD input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	Yes		**C200H-TV101**
	RTD input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	Yes		**C200H-TV102**
	RTD input, PID current output	Yes	Yes	Yes	Yes		**C200H-TV103**
Temperature Sensor Modules	Thermocouple input, K(CA) or J(IC), selectable	Yes	Yes	Yes	Yes	U, C	**C200H-TS001**
		Yes	Yes	Yes	Yes		**C200H-TS002**
	RTD input, Pt 100 Ω, conforms to JIS standards	Yes	Yes	Yes	Yes		**C200H-TS101**
	RTD input, Pt 100 Ω	Yes	Yes	Yes	Yes		**C200H-TS102**
Voice Module	Voice/Audio input and output for system notification	Yes	Yes	Yes	Yes	U,C	**C200H-OV001**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

C200H Special I/O Modules

Item	Description	Mountable racks				Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Process Control Modules	Voltage or current input, time-proportioning PID, or ON/OFF transistor output	Yes	Yes	Yes	Yes	U	**C200H-PID01**
	Voltage or current input, time-proportioning PID, or ON/OFF voltage output	Yes	Yes	Yes	Yes		**C200H-PID02**
	Voltage or current input, PID current output	Yes	Yes	Yes	Yes		**C200H-PID03**
Data Setting Console	Used with PID Control Modules. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	—				U	**C200H-DSC01**
	Connecting Cable, 2 m	—				—	**C200H-CN225**
	Connecting Cable, 4 m	—					**C200H-CN425**
Cam Positioner Module	48 cam outputs (16 external outputs and 32 internal outputs), Resolver speed: 20 μs (5 kHz)	Yes	Yes	Yes	Yes	U, C	**C200H-CP114**
Data Setting Console	Used with Cam Positioner Module. Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc.	—				U	**C200H-DSC01**
	Connecting Cable, 2 m	—				—	**C200H-CN225**
	Connecting Cable, 4 m	—					**C200H-CN425**
ASCII/ BASIC Modules	24-kbyte RAM, 2 RS-232C ports	Yes	Yes	Yes	Yes	N, CE	**C200H-ASC02**
	200-kbyte RAM, 2 RS-232C ports	Yes	Yes	Yes	Yes	U, C, CE	**C200H-ASC11**
	200-kbyte RAM, RS-232C port, RS-422/485 port	Yes	Yes	Yes	Yes		**C200H-ASC21**
	200-kbyte RAM, 3 RS-232C ports (1 terminal only)	Yes	Yes	Yes	Yes		**C200H-ASC31**
Analog Input Modules (See Note.)	4 to 20 mA, 1 to 5/0 to 10 V (selectable), 4 inputs, 1/4,000 resolution	Yes	Yes	Yes	Yes	U, C, N, L	**C200H-AD001**
	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	Yes	U, C, N, L, CE	**C200H-AD002**
	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	Yes		**C200H-AD003**

Note: CS1 Series versions are available; please refer to the CS1 Special I/O subsection within this *Ordering Guide* Section.

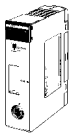
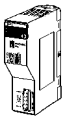
Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

C200H Special I/O Modules

Item	Description	Mountable racks				Standards	Part number
		CPU Rack	C200H expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Analog Output Modules *	4 to 20 mA, 1 to 5 V, 0 to 10 V (selectable); 2 outputs; 1/4,000 resolution	Yes	Yes	Yes	Yes	U, C, N, L	**C200H-DA001**
	4 to 20 mA, −10 to +10 V (selectable), 4 outputs; 1/4,000 resolution	Yes	Yes	Yes	Yes	U, C, N, L, CE	**C200H-DA002**
	1 to 5 V, −10 to +10 V (selectable), 8 outputs; 1/4,000 resolution	Yes	Yes	Yes	Yes		**C200H-DA003**
	4 to 20 mA, 8 outputs; 1/4,000 resolution	Yes	Yes	Yes	Yes		**C200H-DA004**
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	Yes		**C200H-MAD01**
High-speed Counter Modules	One-axis pulse input, counting rate: 50 kcps max.	Yes	Yes	Yes	Yes	U, C, CE	**C200H-CT001-V1**
	One-axis pulse input, counting rate: 75 kcps max., line driver compatible	Yes	Yes	Yes	Yes		**C200H-CT002**
	Two-axis pulse input, counting rate: 75 kcps max., line driver compatible	Yes	Yes	Yes	Yes		**C200H-CT021**
	Solder terminal; 40-pin and a Connector Cover	—				—	**C500-CE401**
	Solderless terminal; 40-pin and a Connector Cover (Crimp-type)	—					**C500-CE402**
	Pressure welded terminal; 40-pin	—					**C500-CE403**
	Solder terminal; 40-pin and a Connector Cover (Horizontal-type)	—					**C500-CE404**
	Crimp-style terminal; 40-pin and a Connector Cover (Horizontal-type)	—					**C500-CE405**
Motion Control Modules *	G-language programmable, two-axis analog outputs	Yes	Yes	Yes	Yes	U, C, CE	**C200H-MC221**
	MC Support Software IBM PC/AT or compatible	—				—	**CV500-ZN3AT1-E**
	Connecting Cable: 3.3 m	—					**CQM1-CIF01**
	Teaching Box	—				U, C, CE	**CVM1-PRO01**
	Connection Cable for Teaching Box: 2 m long	—				—	**CV500-CN224**
	Memory Pack (with key sheet)	—					**CVM1-MP702**
	Terminal Block Conversion Module Simplifies wiring.	—					**XW2B-20J6-6**
	Connecting cable for Terminal Block Conversion Module	—					**XW2Z-100J-F1**
	Connecting Cable (to servo drive)	—	—	—	—	—	**R88A-CPU001-M1**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide). *See CS1 Versions – several pages forward.

C200H Special I/O Modules

Item	Description	Mountable Racks				Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Position Control Modules	One-axis pulse output, speeds 1 to 500,000 pps,directly connects to servomotor driver, line driver compatible (Z level)	Yes	Yes	Yes	Yes	U, C, CE	**C200HW-NC113**
	Two-axis pulse output, speeds 1 to 500,000 pps,directly connects to servomotor driver, line driver compatible (Z level)	Yes	Yes	Yes	Yes	U, C, CE	**C200HW-NC213**
	Four-axis pulse output, speeds 1 to 500,000 pps,directly connects to servomotor driver, line driver compatible (Z level)	Yes	Yes	Yes	Yes		**C200HW-NC413**
	1-axis cable for C200HW-NC113	—				—	**XW2Z-□□□J-A6** (See Note 1.)
	1-axis Servo Relay Module for C200HW-NC113	—					**XW2B-20J6-1B**
	2-axis cable for C200HW-NC213	—					**XW2Z-□□□J-A7** (See Note 1.)
	2-axis Servo Relay Module for C200H-NC213	—					**XW2B-40J6-2B**
RFID Controller Modules 	Electromagnetic coupling, allows interface to RFID systems	Yes	Yes	Yes	Yes	U, C	**C200H-IDS01-V1**
	Microwave type, allows interface to RFID systems	Yes	Yes	Yes	Yes	—	**C200H-IDS21**
DeviceNet Master Module 	DeviceNet Remote I/O Master, 50 nodes max., (without “configurator”); 63 nodes max. (with “configurator”).	Yes	Yes	Yes	No	U, C, N, L, CE	**C200HW-DRM21-V1** (See Note 2.)
DeviceNet I/O Link Module	DeviceNet Remote I/O Slave, supports 512 input points. and 512 output points. For details on Slave Modules, refer to the *DeviceNet* subsection (found a few pages forward within this section).	Yes	Yes	Yes	No	U, C, N, CE	**C200HW-DRT21**
CompoBus/S Master Modules	CompoBus/S Remote I/O, 32 slaves/256 bits max. For details on Slave Modules, refer to the *DeviceNet* subsection (found a few pages forward within this section).	Yes	Yes	Yes	No	U, C, N, L, CE	**C200HW-SRM21-V1**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

Note: 1. Options for □ □ □ include the following:
050 = 0.5 meter length
100 = 1.0 meter length
200 = 2.0 meter length
300 = 3.0 meter length
500 = 5.0 meter length

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

C200H Special I/O Modules

Item	Description	Mountable Racks				Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
PC Link Module	PC Link, single level: 32 Modules; multilevel: 16 Modules	Yes	Yes	Yes	No	N, L, CE	**C200H-LK401** (See Note 1.)
SYSMAC BUS Remote I/O Master Modules	Wired	Yes	Yes	Yes	No	N, L, CE	**C200H-RM201** (See Note 2.)
	Fiber-optic	Yes	Yes	Yes	No	N, L,CE	**C200H-RM001-PV1** (See Note 2.)

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

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

2. Each Slave Rack connected to a Remote I/O Master Module is allocated 10 words in the SYSMAC BUS Area. Each I/O Terminal is allocated 1 word in the I/O Terminal Area.

3. SYSMAC BUS Remote I/O Slave Devices, Cables, and Accessories can be found in manual W120, Appendix A.

CS1 Motion Control Modules

Item	Description	Mountable racks				Standards	Part number
		CPU Rack	C200HW Expansion Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Motion Control Modules	CS1W Analog Motion Module, 2-axis	Yes	No	Yes	No	U, C, N, CE, L	**CS1W-MC221**
	CS1W Analog Motion Module, 4-axis						**CS1W-MC421**
Configuration Software	CX-Motion Configuration Software for MC Type Modules					—	**WS02-MCTC1-E**

Peripheral Devices (for Motion Control Modules)

Item/Description				Part number
Teaching Box				**CVM1PRO01-E**
R_{ON} Cassette				**CVM1-MP702**
Terminal Block for 2 Axes				**XW2B-20J6-6**
Terminal Block for 4 Axes				**XW2B-40J6-7**
Terminal Block Cable				**XW2Z-100J-F1**
Servo Drive Cables	H-Series	Cable for 1 axis	1 m	**R88A-CPH001M1**
			2 m	**R88A-CPH002M1**
		Cable for 2 axes	1 m	**R88A-CPH001M2**
			2 m	**R88A-CPH002M2**
	M-Series	Cable for 1	1 m	**R88A-CPM001M1**
			2 m	**R88A-CPM002M1**
		Cable for 2 axes	1 m	**R88A-CPM001M2**
			2 m	**R88A-CPM002M2**
	U-Series up to 750 W	Cable for 1 axes	1 m	**R88A-CPU001M1**
			2 m	**R88A-CPU002M1**
		Cable for 2 axes	1 m	**R88A-CPU001M2**
			2 m	**R88A-CPU002M2**
	U-Series from 1 to 5 kW	Cable for 1 axis	1 m	**R88A-CPB001M1**
			2 m	**R88A-CPB002M1**
		Cable for 2 axes	1 m	**R88A-CPB001M2**
			2 m	**R88A-CPB002M2**
Personal Computer Cables for CX-Motion Software (See Note.)	Peripheral port		0.1 m	**CS1W-CN118**
			2 m	**CS1W-CN226**
			6 m	**CS1W-CN626**
	RS-232C port		2 m	**XW2Z-200S-V**
			5 m	**XW2Z-500S-V**

Note: To connect to a CS1 Series CPU Module.

CS1 Special I/O Modules

CS1 Analog Modules

Item	Description	Mountable racks				Standards	Part number
		CPU Rack	C200HW Expansion Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Analog Input Modules	Module, analog IN, 4-channel, CS1	Yes	No	Yes	No	U, C, N, CE, L	**CS1W-AD041**
	Module, analog IN, 8-channel, CS1						**CS1W-AD081**
Analog Output Modules	Module, analog OUT, 8-channel (V), CS1						**CS1W-DA041**
	Module, analog OUT, 8-channel (A), CS1						**CS1W-DA08C**
Analog I/O Modules	Module, CS1 mixed analog 4 IN, 4 OUT						**CS1W-MAD44**

CS1/C200H Non-compatible Modules

Modules Not Compatible with CS1 Controllers or Systems

The modules listed in the non-compatible part number column cannot be used anywhere within a CS1 System, on a CPU Rack or on CS1/C200HW Expansion Racks. Please contact your Omron Sales Representative for assistance when upgrading existing systems to CS1 systems (i.e., changing from a system with these non-compatible modules).

Note: Many options are available in addition to the suggested replacement module listed here (last column).

Item	Description	Mountable Racks				Part numbers of modules not compatible with CS1 controllers or systems	**Suggested replacement part number** (See Note.)
		CPU Rack	C200HW Expansion Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks		
Input Module	8-pt Input, No-volt, NPN	No	No	No	No	C200H-ID001	**C200H-ID211**
	8-pt Input, No-volt, PNP					C200H-ID002	**C200H-ID211**
Network Module	HostLink RS-232 Modules					C200H-LK201(-V1)	**CS1W-SCU21**
	HostLink RS-422 Modules					C200H-LK202(-V1)	**CS1W-SCU21** **CS1W-SCB41**
	SYSMAC Link Module, fiber-optic					C200H-SLK11	**CS1W-CLK11**
	SYSMAC Link Module, wire					C200H-SLK21(-V1)	**CS1W-CLK21**
	SYSMAC Link Module, fiber-optic					C200HS-SLK12	**CS1W-CLK11**
	SYSMAC Link Module, wire					C200HS-SLK22	**CS1W-CLK21** **CS1W-CLK11**
	SYSMAC Net Module					C200HS-SNT32	**CS1W-CLK21** **CS1W-CLK11**
	Controller Link Module					C200HW-CLK21	**CS1W-CLK21** **CS1W-CLK11**
	PC Card module					C200HW-PCU01-E	**Compact Flash within CS1 CPU**
	PC Card with ethernet support					C200HW-PCS01-E(V1)	**CS1W-ETN01**
	SYSMAC Link Module, fiber-optic					C200HW-SLK13	**CS1W-CLK11**
	SYSMAC Link Module, fiber-optic, 3K data					C200HW-SLK14	**CS1W-CLK11**
	SYSMAC Link Coax Module					C200HW-SLK23	**CS1W-CLK21**
	SYSMAC Link Coax Module, 3K data					C200HW-SLK24	**CS1W-CLK21**

CS1 Communications and Network Modules

Communications and Network Modules

Item	Description	Mountable racks				Words allocated (CIO 1500 to CIO 1899)	Standards	Part number
		CPU Rack	C200H Expansion I/O Racks	CS1 Expansion Racks	SYSMAC BUS Slave Racks			
Controller Link Modules	Wired	Yes	No	Yes	No	25 words	U, C, N, CE, L	**CS1W-CLK21**
	Fiber-optic	Yes	No	Yes	No	25 words		**CS1W-CLK11**
Serial Communications Module	Two RS-232C Ports	Yes	No	Yes	No	25 words		**CS1W-SCU21**
Ethernet Module	FINS communications, TCP/IP and UDP/IP Socket Services, FTP server, email notification	Yes	No	Yes	No	25 words		**CS1W-ETN01**

Special Note: For current consumption, refer to *Current Consumption Tables* (the last 6 pages of this ordering guide).

Fiber-optic Cables and Connectors for Controller Link

Item/Description	Comments	Part number
Connector, half lock	—	**S3200-COCF2511**
Connector, full lock	Two required for each module or NSB.	**S3200-COCF2011**
Fiber-optic cable, duplex, zipcord, 50M	Use for short runs; do not pull through conduit. Orange color.	**FCS-HCR-CO-501**
Fiber-optic cable, duplex, jacketed, 50M	Use for pulling through conduit. Black jacket with stress members. Custom jackets for burial, and special environments are available for custom orders.	**FCS-HCR-LB-501**
Fiber-optic cable, duplex, jacketed, 100 M		**FCS-HCR-LB-102**
Fiber-optic cable, duplex, jacketed, 500 M		**FCS-HCR-LB-501**
Fiber-optic cable, duplex, jacketed, 1000 M		**FCS-HCR-LB-103**

Note:
1. Connectors and cables must be purchased separately from the modules and NSB's.
2. Cable is bulk, non-terminated.
3. Termination kit required to attach connectors to cable.
4. Cable testing and termination assistance is available.
5. Special pre-terminated cables are available by special order.

Item/Description				Part number
Group	Module/Terminal	I/O points	Standards	
Basic Terminals and Modules	Remote Transistor Input Terminals	8 inputs	U, C	**DRT1-ID08-DC24-1**
		16 inputs		**DRT1-ID16-DC24**
	Remote Transistor Output Terminals	8 outputs		**DRT1-OD08**
		16 outputs		**DRT1-OD16**
	Environmentally Resistant Transistor I/O Terminals	8 inputs	CE	**DRT1-ID08C**
		8 outputs		**DRT1-OD08C-DC24**
		8 inputs and 8 outputs		**DRT1-MD16C**
		16 point input, NPN		**DRT1-HD16C**
		16 point output, PNP		**DRT1-HD16C-1**
		16 point input, NPN		**DRT1-WD16C**
		16 point output, PNP		**DRT1-WD16C-1**
		8 inputs, 8 outputs, PNP		**DRT1-MD16C-1**
Basic Terminals and Modules	Remote Adapters	16 inputs	U, C	**DRT1-ID16X-DC24**
		16 outputs		**DRT1-OD16X-DC24**
	Sensor Terminals	16 inputs	—	**DRT1-HD16S**
		8 inputs and 8 outputs		**DRT1-ND16S**
	Temperature Input Terminals	4 inputs (4 words)		**DRT1-TS04T**
				DRT1-TS04P
	CQM1 I/O Link Module	16 inputs and 16 outputs	U, C, CE	**CQM1-DRT21**
Analog Terminals	Analog Input Terminals	2 or 4 inputs (2 or 4 words) (voltage or current)	CE	**DRT1-AD04**
		4 inputs (4 words) (voltage or current)	—	**DRT1-AD04H**
	Analog Output Terminals	2 outputs (2 words)	CE	**DRT1-DA02**
Special Modules and Terminals	C200H I/O Link Module	512 inputs (32 words) max. 512 outputs (32 words) max.	U, C, N, CE	**C200HW-DRT21**
	RS-232C Module	16 inputs (1 word)	U, C, CE	**DRT1-232C2**
	B7AC Interface Terminal	30 points (10 words/B7AC)	CE	**DRT1-B7AC**
Optional Parts	T-branch Taps	1-branch Tap	—	**DCN1-1**
		1-branch Tap with Connectors		**DCN1-1C**
		3-branch Tap		**DCN1-3**
		3-branch Tap with Connectors		**DCN1-3C**
	Special Cables	Thin		**DCA1-5C10**
		Thick		**DCA2-5C10**
	Terminal Block with Terminating Resistance	—		**DRS1-T**

DeviceNet Multiple I/O Terminal Modules

DeviceNet Communications Module

Item/Description				Part number
Number of slaves	Number of slave I/O points	Rated voltage	Standards	
8	1,024 max., input and output combined	24 VDC	U, C, CE	**DRT1-COM**

Digital I/O Modules

Item	Classification	Internal I/O circuit common	I/O points	I/O connections	I/O specifications	Standards	Part number
Terminal Block-type Digital I/O Modules	Digital input	NPN (+ common)	16	M3 terminal block	DC/Tr	U, C, CE	**GT1-ID16**
		PNP (– common)					**GT1-ID16-1**
	Digital output	NPN (– common)			0.5 A DC/Tr		**GT1-OD16**
		PNP (+ common)					**GT1-OD16-1**
Connector-type Digital I/O Modules	Digital input	NPN (+ common)		Molex connectors	DC/Tr		**GT1-ID16MX**
		PNP (– common)					**GT1-ID16MX-1**
	Digital output	NPN (– common)			0.5 A DC/Tr		**GT1-OD16MX**
		PNP (+ common)					**GT1-OD16MX-1**
	Digital input	NPN (+ common)		Fujitsu connectors	DC/Tr	CE	**GT1-ID16ML**
		PNP (– common)					**GT1-ID16ML-1**
	Digital output	NPN (– common)			0.5 A DC/Tr		**GT1-OD16ML**
		PNP (+ common)					**GT1-OD16ML-1**
	Digital input	NPN (+ common)		25-pint D-sub connectors	DC/Tr		**GT1-ID16DS**
		PNP (– common)					**GT1-ID16DS-1**
	Digital output	NPN (– common)			0.5 A DC/Tr		**GT1-OD16DS**
		PNP (+ common)					**GT1-OD16DS-1**
Multi-point Connector-type Digital I/O Modules	Digital input	NPN (+ common)	32	Fujitsu connectors	DC/Tr	U, C, CE	**GT1-ID32ML**
		PNP (– common)					**GT1-ID32ML-1**
	Digital output	NPN (– common)			0.5 A DC/Tr		**GT1-OD32ML**
		PNP (+ common)					**GT1-OD32ML-1**

Relay Output Modules

Item	I/O points	I/O connection method	Description	Standards	Part number
Relay Output	16 points	M3 terminal block	2 A, AC, DC, SPST-NO	CE	**GT1-ROS16**
	8 points		5 A, AC, DC, SPST-NO	U, L, CE	**GT1-ROP08**

Analog I/O Modules

Item	I/O	I/O connections	Description	Standards	Part number
Analog Input Module	8 inputs	Connectors	4 to 20 mA, 0 to 20 mA, 0 to 5 V, 1 to 5 V, 0 to 10 V, –10 to 10 V	U, C, CE	**GT1-AD08MX**
	4 inputs	Terminal block			**GT1-AD04**
Analog Input Module	8 inputs	Connectors	4 to 20 mA, 0 to 20 mA, 0 to 5 V, 1 to 5 V, 0 to 10 V, –10 to 10 V	U, L, CE	**GT1-AD08MX**
	4 inputs	Terminal block			**GT1-AD04**
Analog Output Module	4 outputs	Connector	0 to 5 V, 1 to 5 V, 0 to 10 V, –10 to 10 V	U, C, CE	**GT1-DA04MX**
		Terminal block	0 to 5 V, 1 to 5 V, 0 to 10 V, –10 to 10 V, 4 to 20 mA		**GT1-DA04**

Counter Module

Item	External I/O	I/O connection method	Operating mode	Standards	Part number
Counter Module	1 input, 2 outputs	Terminal block (M3 terminals)	Linear counter	CE	**GT1-CT01**

CompoBus/S Slave Modules

Item (Slave type)	Description	Standards	**Part number** (See Note.)
Remote I/O Transistor Terminals	4 inputs (NPN)	U, C, CE	**SRT1-ID04**
	4 inputs (PNP)		**SRT1-ID04-1**
	8 inputs (NPN)		**SRT1-ID08**
	8 inputs (PNP)		**SRT1-ID08-1**
	16 inputs (NPN)		**SRT1-ID16**
	16 inputs (PNP)		**SRT1-ID16-1**
	4 outputs (NPN)		**SRT1-OD04**
	4 outputs (PNP)		**SRT1-OD04-1**
	8 outputs (NPN)		**SRT1-OD08**
	8 outputs (PNP)		**SRT1-OD08-1**
	16 outputs (NPN)		**SRT1-OD16**
	16 outputs (PNP)		**SRT1-OD16-1**
Remote I/O Relay Output Blocks	8 relay outputs	U, C, CE	**SRT1-ROC08**
			SRT1-ROC16
	8 MOSFET outputs	U, C, CE	**SRT1-ROF08**
			SRT1-ROF16
Sensor Amp Terminals	4 inputs (1 word x 4 terminals)	—	**SRT1-TID04S**
	4 inputs (4 words x 1 terminal)		**SRT1-TKD04S**
Expansion Sensor Amp Terminals	4 inputs (1 word x 4 terminals)		**SRT1-XKD04S**
	4 inputs (4 words x 1 terminal)		**SRT1-XID04S**
Sensor Remote Terminal Blocks	8 inputs		**SRT1-ID08S**
	8 outputs		**SRT1-OD08S**
	4 inputs and 4 outputs		**SRT1-ND08S**

Note: SRT1 and SRT2 can be used together in the same system at high speed setting on the SRT2's.

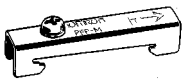
NEW! 500 M Capable! Long Distance CompoBus/S Slave Modules

Item (Slave type)	Description	Standards	Part number
Transistor Remote I/O Terminal Blocks	4 transistor inputs (NPN)	U, C, CE	**SRT2-ID04**
	4 transistor inputs (PNP)		**SRT2-ID04-1**
	8 transistor inputs (NPN)		**SRT2-ID08**
	8 transistor inputs (PNP)		**SRT2-ID08-1**
	16 transistor inputs (NPN)		**SRT2-ID16**
	16 transistor inputs (PNP)		**SRT2-ID16-1**
	4 transistor outputs (NPN)		**SRT2-OD04**
	4 transistor outputs (PNP)		**SRT2-OD04-1**
	8 transistor outputs (NPN)		**SRT2-OD08**
	8 transistor outputs (PNP)		**SRT2-OD08-1**
	16 transistor outputs (NPN)		**SRT2-OD16**
	16 transistor outputs (PNP)		**SRT2-OD16-1**
Remote I/O Transistor Terminals with independent common terminals for each point	16 inputs (NPN, + common)	CE	**SRT2-ID16T**
	16 inputs (PNP, – common)		**SRT2-ID16T-1**
	16 inputs/outputs (NPN, – common)		**SRT2-MD16T**
	16 inputs/outputs (PNP, + common)		**SRT2-MD16T-1**
	16 outputs (NPN, – common)		**SRT2-OD16T**
	16 outputs(PNP, + common)		**SRT2-OD16T-1**
Remote Relay Terminals	8 relay outputs	U, C, CE	**SRT2-ROC08**
	16 relay outputs		**SRT2-ROC16**
	8 power MOSFET outputs		**SRT2-ROF08**
	16 power MOSFET outputs		**SRT2-ROF16**
Connector-Style Remote Terminal Blocks	8 transistor inputs (NPN)	U, C, CE	**SRT2-VID085**
	8 transistor inputs (PNP)		**SRT2-VID085-1**
	8 transistor outputs (NPN)		**SRT2-VOD085**
	8 transistor outputs (PNP)		**SRT2-VOD085-1**
	16 transistor inputs (NPN)		**SRT2-VID16ML**
	16 transistor inputs (PNP)		**SRT2-VID16ML-1**
	16 transistor outputs (NPN)		**SRT2-VOD16ML**
	16 transistor outputs (PNP)		**SRT2-VODML-1**
Analog Input	1 to 4 (selectable) analog inputs	U, C, CE	**SRT2-AD04**
Analog Output	1 or 2 (selectable) analog outputs	U, C, CE	**SRT2-DA02**

Module Accessories

Item	Description	Standards	Part number
I/O Module Cover	Cover for 10-pin terminal block	—	**C200H-COV11**
Terminal Block Covers	Short protection for 10-pin terminal block (package of 10 covers); 8 pts		**C200H-COV02**
	Short protection for 19-pin terminal block (package of 10 covers); 12 pts		**C200H-COV03**
C200H Module Connector Cover	Protective cover for unused I/O Connecting Cable connectors		**C500-COV02**
CS1 Special I/O Module Connector Cover	Protective cover for unused I/O Connecting Cable connectors		**CV500-COV01**
Relay	24 VDC, for C200H-OC221/OC222/OC223/OC224/OC225	—	**G6B-1174P-FD-US**

Mounting Rails and Accessories

Item	Description		Standards	Part number
Programming Console Mounting Bracket	Used to attach C200H-PRO27-E Hand-held Programming Console to a panel.		—	**C200H-ATT01**
DIN-rail Mounting Bracket	1 set (2 included)			**C200H-DIN01**
DIN Rails	Length: 50 cm; height: 7.3 cm			**PFP-50N**
	Length: 1 m; height: 7.3 cm			**PFP-100N**
	Length: 50 cm; height: 16 mm			**PFP-100N2**
End Plate 	---			**PFP-M**
Spacer	---			**PFP-S**
C200HW Expansion I/O Rack Insulation Plates	Electrically insulate C200HW Expansion I/O Racks from the control panel to increase noise-resistance.	For 3-slot Rack	N, L, CE	**C200HW-ATT32**
		For 5-slot Rack		**C200HW-ATT52**
		For 8-slot Rack		**C200HW-ATT82**
		For 10-slot Rack		**C200HW-ATTA2**

Current Consumption Tables

The amount of current/power that can be supplied to the Modules mounted in a Rack is limited by the capacity of the Rack's Power Supply.

Consider the Current/Power Consumption When Designing the System

- The total current consumption of the Modules must not exceed the maximum current for each voltage group.
- The total power consumption must not exceed the maximum for the Power Supply

CPU Racks and Expansion Racks

The following table shows the maximum currents and power that can be supplied by Power Supplies on CPU Racks and Expansion Racks (both CS1 Expansion Racks and C200HW Expansion I/O Racks).

Note: 1. When calculating current/power consumption in a CPU Rack, be sure to include the power required by the CPU Rack and CPU themselves.
2. Likewise, be sure to include the power required by the Rack itself when calculating the current/power consumption in an Expansion Rack.

Power Supply	Max. Current Capacity			Max. Total Power Consumption
	5-V group	26-V group	24-V group	
C200HW-PA204	4.6 A	0.6 A	None	30 W
C200HW-PA204S	4.6 A	0.6 A	0.8 A	30 W
C200HW-PA204R	4.6 A	0.6 A	None	30 W
C200HW-PD204	4.6 A	0.6 A	None	30 W
C200HW-PA209R	9 A	1.3 A	None	45 W

SYSMAC BUS Slave Racks

The following table shows the maximum current and power supplied by Power Supplies in SYSMAC BUS Slave Racks.

Note: Be sure to include the power required by the Rack itself when calculating current/power consumption.

Slave Module	Max. Current Capacity			Max. Total Power Consumption
	5-V group	26-V group	24-V group	
C200H-RT201 (Wired)	2.7 A	0.6 A	0.3 A	28 W
C200H-RT202 (Wired)	2.7 A	0.6 A	None	23 W
C200H-RT001-P (Fiber-optic)	2.7 A	0.6 A	0.3 A	28 W
C200H-RT002-P (Fiber-optic)	2.7 A	0.6 A	None	23 W

Note: The current consumed by each voltage group must not exceed the maximum current shown in the table above.

Be Sure Both Condition 1 and Condition 2 (Listed Below) Are Met

Condition 1: Maximum Current Supply

1. Current required at 5 VDC by all Modules (A) ≤ Max. Current shown in table
2. Current required at 26 VDC by all Modules (B) ≤ Max. Current shown in table
3. Current required at 24 VDC by all Modules (C) ≤ Max. Current shown in table

Condition 2: Maximum Total Current Supply

1. $A \times 5$ VDC + $B \times 26$ VDC + $C \times 24$ VDC ≤ Max. Power shown in table

Example Calculations

Example 1

In this example, the following Modules are mounted to a CPU Rack with a C200HW-PA204S Power Supply.

Item	Part number	Quantity	5-VDC	26-VDC	24-VDC
CPU Rack (8 slots)	CS1W-BC083	1	0.11 A	—	—
CPU	CS1H-CPU67-E	1	1.10 A	—	—
Input Modules	C200H-ID216	2	0.10 A	—	—
	CS1W-ID291	2	0.20 A	—	—
Output Modules	C200H-OC221	2	0.01 A	0.075 A	—
Special I/O Modules	C200H-NC213	1	0.30 A	—	—
CS1 CPU Bus Module	CS1W-CLK21	1	0.40 A	—	—
Service Power Supply (24 VDC)		0.3 A used	—	—	0.3 A
Total current/power consumption 13.15 + 3.9 + 7.2 = 24.25 (≤30 W)			2.63 A (≤4.6) x 5 V = 13.15W	0.15 A ⟨≤0.6A) x 26 V = 3.9 W	0.3 A ⟨≤0.8A) x 24 V = 7.2 W

Current Consumption Tables

5 VDC Voltage Group — CPUs, Communication Boards, and Racks

Item	Consumption	Part number
CPU Modules (These values include current consumption by a Programming Console or CX-Programmer.)	1.10 A	**CS1H-CPU67-E(V□)**
	1.10 A	**CS1H-CPU66-E(V□)**
	1.10 A	**CS1H-CPU65-E(V□)**
	1.10 A	**CS1H-CPU64-E(V□)**
	1.10 A	**CS1H-CPU63-E(V□)**
	0.95 A	**CS1G-CPU45-E(V□)**
	0.95 A	**CS1G-CPU44-E(V□)**
	0.95 A	**CS1G-CPU43-E(V□)**
	0.95 A	**CS1G-CPU42-E(V□)**
Communication Boards	0.28 A (See Note.)	**CS1W-SCB21**
	0.36 A (See Note.)	**CS1W-SCB41**
CPU Racks	0.11 A	**CS1W-BC023**
	0.11 A	**CS1W-BC033**
	0.11 A	**CS1W-BC053**
	0.11 A	**CS1W-BC083**
	0.11 A	**CS1W-BC103**
CS1 Racks	0.23 A	**CS1W-BI023**
	0.23 A	**CS1W-BI033**
	0.23 A	**CS1W-BI053**
	0.23 A	**CS1W-BI083**
	0.23 A	**CS1W-BI103**
C200H/HW Expansion I/O Racks	0.15 A	**C200HW-BI031**
	0.15 A	**C200HW-BI051**
	0.15 A	**C200HW-BI081**
	0.15 A	**C200HW-BI101**

Note: Add 0.15 A per port when the NT-AL001-E is connected.

5 VDC Voltage Group — Basic I/O Modules

Item	Description	Consumption (A)	Part number
C200H Input modules	DC Input modules	0.01	**C200H-ID211**
		0.01	**C200H-ID212**
	AC Input Modules	0.01	**C200H-IA121**
		0.01	**C200H-IA122**
		0.01	**C200H-IA122**
		0.01	**C200H-IA221**
		0.01	**C200H-IA222**
		0.01	**C200H-IA222V**
	AC/DC Input Modules	0.01	**C200H-IM211**
		0.01	**C200H-IM212**
	B7A Interface Modules	0.10	**C200H-B7AI1**
		0.10	**C200H-B7A12**
	Interrupt Input Module	0.02	**C200HS-INT01**
C200H Group-2 High-density Input Modules	DC Input Modules	0.10	**C200H-ID216**
		0.12	**C200H-ID217**
		0.10	**C200H-ID218**
		0.12	**C200H-ID219**
		0.12	**C200H-ID111**
CS1 High-Density Input Modules	DC Input Modules	0.20	**CS1W-ID291**
C200H Output Modules	Relay Output Modules	0.01	**C200H-OC221**
		0.01	**C200H-OC222**
		0.008	**C200H-OC222**
		0.05	**C200H-OC225**
		0.03	**C200H-OC226**
		0.01	**C200H-OC223**
		0.01	**C200H-OC224**
		0.01	**C200H-OC224**
	Transistor Output Modules	0.14	**C200H-OD411**
		0.14	**C200H-OD213**
		0.14	**C200H-OD214**
		0.01	**C200H-OD216**
		0.16	**C200H-OD211**
		0.01	**C200H-OD217**
		0.18	**C200H-OD212**
		0.16	**C200H-OD21A**
	B7A Interface Modules	0.10	**C200H-B7A01**
		0.10	**C200H-B7A02**
	Triac Output Modules	0.18	**C200H-OA122E**
		0.18	**C200H-OA223**
		0.20	**C200H-OA222**
		0.27	**C200H-OA224**
C200H Group-2 High-density Output Modules	Transistor Output Modules	0.18	**C200H-OD218**
		0.27	**C200H-OD219**
CS1 High-Density Output Modules	Transistor Output Modules	0.48	**CS1W-OD291**
		0.48	**CS1W-OD292**
CS1 High-Density I/O Modules	DC Input/Transistor Output Modules	0.35	**CS1W-MD291**
		0.35	**CS1W-MD292**
C200H I/O Modules	B7A Interface Modules	0.10	**C200H-B7A21**
		0.10	**C200H-B7A22**
	Analog Timer Module	0.06	**C200H-TM001**

Current Consumption Tables

5 VDC Voltage Group — High-density I/O Modules (Special I/O Modules)

Item	Description	Consumption (A)	Part number
C200H High-density I/O Modules (Special I/O Modules)	DC Input Module	0.13	**C200H-ID215**
	TTL Input Module	0.13	**C200H-ID501**
	Transistor Output Module	0.22	**C200H-OD215**
	TTL Output Module	0.22	**C200H-OD501**
	TTL I/O Module	0.18	**C200H-MD501**
	DC Input/Transistor Output Module	0.18	**C200H-MD215**
		0.18	**C200H-MD115**

5 VDC Voltage Group — Special I/O Modules

Item	Description	Consumption (A)	Part number
C200H Special I/O Modules	Temperature Control Modules	0.33	**C200H-TC001**
		0.33	**C200H-TC002**
		0.33	**C200H-TC003**
		0.33	**C200H-TC101**
		0.33	**C200H-TC102**
		0.33	**C200H-TC103**
	Heat/Cool Temperature Control Modules	0.33	**C200H-TV001**
		0.33	**C200H-TV002**
		0.33	**C200H-TV003**
		0.33	**C200H-TV101**
		0.33	**C200H-TV102**
		0.33	**C200H-TV103**
	Temperature Sensor Modules	0.45	**C200H-TS001**
		0.45	**C200H-TS002**
		0.45	**C200H-TS101**
		0.45	**C200H-TS102**
	Process Control Modules	0.33	**C200H-PID01**
		0.33	**C200H-PID02**
		0.33	**C200H-PID03**
	Cam Positioner Module	0.30	**C200H-CP114**
	ASCII Modules	0.20	**C200H-ASC02**
		0.25	**C200H-ASC11**
		0.30	**C200H-ASC21**
		0.30	**C200H-ASC31**
	Analog Input Modules	0.55	**C200H-AD001**
		0.45	**C200H-AD002**
		0.10	**C200H-AD003**
	Analog Output Modules	0.65	**C200H-DA001**
		0.60	**C200H-DA002**
		0.10	**C200H-DA003**
		0.10	**C200H-DA004**
	Analog I/O Modules	0.10	**C200H-MAD01**
	High-speed Counter Modules	0.30	**C200H-CT001-V1**
		0.30	**C200H-CT002**
		0.45	**C200H-CT021**
	Motion Control Module	0.65 (0.85 for Teaching Box)	**C200H-MC221**
	Position Control Modules	0.50	**C200H-NC211**
		0.15	**C200H-NC111**
		0.15	**C200H-NC112**
		0.30	**C200HW-NC113**
		0.30	**C200HW-NC213**
		0.50	**C200HW-NC413**
	Voice Module	0.30	**C200HW-OV001**

(This table continues on the next page.)

Current Consumption Tables

5 VDC Voltage Group — Special I/O Modules (continued)

Item	Description	Consumption (A)	Part number
C200H Special I/O Modules	RFID Controller Modules	0.25	**C200H-IDS01-V1**
		0.25	**C200H-IDS21**
	Fuzzy Logic Module	0.30	**C200H-FZ001**
	DeviceNet Master Module	0.25	**C200HW-DRM21-V1**
	DeviceNet I/O Link Module	0.25	**C200HW-DRT21**
	CompoBus/S Master Module	0.15	**C200HW-SRM21**
	PC Link Module	0.35	**C200H-LK401**
	SYSMAC BUS Remote I/O Slave Modules	0.20	**C200H-RM201**
		0.20	**C200H-RM001-PV1**

Current Consumption Tables

CS1 CPU Bus Modules

Item	Description	Consumption (A)	Part number
CS1 CPU Bus Modules	Controller Link Modules	0.35	**CS1W-CLK21**
		0.50	**CS1W-CLK11**
	Serial Communications Module	0.30 (See Note.)	**CS1W-SCU21**
	Ethernet Module	0.40	**CS1W-ETN01**

Note: Add 0.15 A per port when the NT-AL001-E is connected.

26 VDC Modules

Item	Description	Consumption (A)	Part number
C200H Output Modules	Relay Output Modules	0.075 for 8 points ON at the same time	**C200H-OC221**
			C200H-OC222
			C200H-OC223
			C200H-OC224
			C200H-OC225
		0.09 for 8 points ON at the same time	**C200H-OC222V**
			C200H-OC226
			C200H-OC224V
	Transistor Output Modules	0.075 for 8 points ON at the same time	**C200H-OD216**
			C200H-OD217
C200H Special I/O Modules	Analog Input Module	0.10	**C200H-AD003**
	Analog Output Modules	0.20	**C200H-DA003**
		0.25	**C200H-DA004**
	Analog Mixed I/O Module	0.20	**C200H-MAD01**
	RFID Controller Modules	0.12	**C200H-IDS01-V1**
		0.12	**C200H-IDS21**
CS1 Special I/O Modules	Analog Mixed I/O Module	0.20	**CS1W-MAD44**
	Analog Input Modules	0.13 A at 5 VDC 0.1 A at 26 VDC	**CS1W-AD041**
		0.13 A at 5 VDC 0.1 A at 26 VDC	**CS1W-AD081**
	Analog Output Modules	0.13 A at 5 VDC 0.18 A at 26 VDC	**CS1W-DA041**
		0.13 A at 5 VDC 0.18 A at 26 VDC	**CS1W-DA08V**
		0.13 A at 26 VDC 0.25 A at 26 VDC	**CS1W-DA08C**
	Motion Control Modules	0.6 A (add 0.2 A with Teach Box)	**CS1W-MC221**
		0.7 A (add 0.3 A with Teach Box)	**CS1W-MC421**

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