CPU Selection

■ CPUs

CPU Model Description/Specifications						Part number
No. of I/O points	Max. no. of modules, Max. no. of expansions (See Note 2.)	Program capacity	Data memory capacity (See Note 1.)	LD instruction processing speed	Standards	
2,560	40 modules, up to 3 expansion racks	120K steps	256K words (DM: 32K words, EM: 32K words x 7 banks)	0.02 μs	UC, CE	**CJ1H-CPU66H**
	40 modules, up to 3 expansion racks	60K steps	128K words (DM: 32K words, EM: 32K words x 3 banks)			**CJ1H-CPU65H**
1,280	40 modules, up to 3 expansion racks	60K steps	128K words (DM: 32K words, EM: 32K words x 3 banks)	0.04 μs		**CJ1G-CPU45H**
	30 modules, up to 2 expansion racks	30K steps	64K words (DM: 32K words, EM: 32K words x 1 bank)			**CJ1G-CPU44H**
960	30 modules, up to 2 expansion racks	20K steps	64K words (DM: 32K words, EM: 32K words x 1 bank)			**CJ1G-CPU43H**
	30 modules, up to 2 expansion racks	10K steps	64K words (DM: 32K words, EM: 32K words x 1 bank)			**CJ1G-CPU42H**
640	20 modules, 1 expansion rack	20K steps	32K words (DM only, no EM)	.1 μs		**CJ1M-CPU23**
320	10 modules, no expansion racks	10K steps				**CJ1M-CPU22**
160		5K steps				**CJ1M-CPU21**
640	20 modules, 1 expansion rack	20K steps	32K words (DM only, no EM)	.1 μs		**CJ1M-CPU13**
320	10 modules, no expansion racks	10K steps				**CJ1M-CPU12**
160		5K Steps				**CJ1M-CPU11**

Note: 1. The available data memory capacity is the sum of the Data Memory (DM) and the Extended Data Memory (EM). However, there is no EM on CJ1M CPUs.

2. Three CJ1M CPUs (CJ1M-CPU21, CJ1M-CPU22 and CJ1M-CPU23) also incorporate built-in I/O. Refer to the *CPU Overview* Section for more information.

■ Memory Cards

Item	Description/Specifications	Standards	Part number
Flash Memory Cards	15 MB	L, CE	**HMC-EF172**
	30 MB		**HMC-EF372**
	64 MB		**HMC-EF672**
Memory Card Adapter	Mounts a memory card to fit the PCMCIA card slot on a computer		**HMC-AP001**

■ Batteries

Item	Description/Specifications	Standards	Part number
Battery Set	Can also be used with CPM2A and CQM1H PLCs. This battery cannot be used for CS1 Series PLCs.	L, CE	**CPM2A-BAT01**
	Can be used with CJ1M only. This battery cannot be used for CJ1G/H, CPM2A, or CS1 Series PLCs.		**CJ1W-BAT01**

■ Power Supply Units and Expansion

Item	Description/Specifications		Standards	Part number
Power Supply Units	24 VDC; output capacity: 5 A, 5 VDC		UC, CE	**CJ1W-PD025**
	100 to 240 VAC (with RUN output); output capacity: 5 A, 5 VDC			**CJ1W-PA205R**
	100 to 240 VAC; output capacity: 2.8 A, 5 VDC			**CJ1W-PA202**
I/O Control Module	Mount 1 Module on the CPU Rack to allow the connection of an Expansion Rack.			**CJ1W-IC101**
I/O Interface Module	1 required on each Expansion Rack for connection with CPU Rack			**CJ1W-II101**
I/O Connecting Cable	For connecting Expansion Racks to the CPU Rack or another Expansion Rack.	Cable length: 0.3 m	L, CE	**CS1W-CN313**
		Cable length: 0.7 m		**CS1W-CN713**
		Cable length: 2 m		**CS1W-CN223**
		Cable length: 3 m		**CS1W-CN323**
		Cable length: 5 m		**CS1W-CN523**
		Cable length: 10 m		**CS1W-CN133**
		Cable length: 12 m		**CS1W-CN133-B2**

■ Maintenance Parts and Accessories

Item	Description/Specifications	Standards	Part number
End Cover	One is required on the right-hand side of CJ1 Series CPU Racks. One End Cover is provided with CPUs and I/O Interface Modules as a standard accessory. Note: Not mounting an End Cover on the right-hand side of the CPU Rack will result in a fatal error.	UC, CE	**CJ1W-TER01**
DIN Track	Length: 0.5 m; height: 7.3 mm	—	**PFP-50N**
	Length: 1 m; height: 7.3 mm		**PFP-100N**
	Length: 1 m; height: 16 mm		**PFP-100N2**
End Plate	Used to lock CJ1 to Din Track		**PFP-M**

Products for Programming

■ Programming Software and Cables

Item	Description/Specifications		Standards	Part number
CX-Programmer	Windows-based Programming Device OS: Windows 95, 98, ME, NT4.0, or 2000	Connected to the peripheral port or RS-232C port on the CPU or connected to the RS-232C port on a Serial Communications Module.	—	**WS02-CXPC1-E-V□□**
Programming Device Connecting Cables (for peripheral port)	Conversion cable to connect RS-232C cable to peripheral port. Connects DOS computers, D-Sub 9-pin receptacle; length: 0.1 m		CE	**CS1W-CN118**
	Connects DOS computers, D-Sub 9-pin; length: 2.0 m	Used for Peripheral Bus or Host Link.		**CS1W-CN226**
	Connects DOS computers, D-Sub 9-pin; length: 6.0 m			**CS1W-CN626**
Programming Device Connecting Cables (for RS-232C port)	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 programming cables.		—	**CS1W-C1F31**
CX-Simulator	Windows-based Support Software for Windows 95/98/ME/NT or Windows 2000. Simulates only CJ1 Series and CS1 Series CPUs.		—	**WS02-SIMC1-E**
CX-Protocol	Windows-based Protocol Creation Software for Windows 95/98/ME/NT4.0/2000			**WS02-PSTC1-E**

■ Programming Consoles

Item	Description/Specifications		Standards	Part number
Programming Consoles	An English Keyboard Sheet (CS1W-KS001-E) is required. (Connects to peripheral port on CPU only.)		U, C, CE	**CQM1H-PRO01-E**
	2-line bracket LCD display		U, C, N, CE	**C200H-PRO27E**
Programming Console Key Sheet	Connects CQM1H-PRO01-E, or C200H-PRO27-E Programming Console to the CPU		CE	**CS1W-KS001-E**
Programming Console Connecting Cables	Connects the C200H-PRO27-E Programming Console to the CPU	Cable length: 2 m		**CS1W-CN224**
Programming Console Connecting Cables	Connects the C200H-PRO27-E Programming Console to the CPU	Cable length: 6 m		**CS1W-CN624**

* Available in Canada only.

■ Basic I/O Modules

Item	Description/Specifications	Standards	Part number
DC Input Modules	8 inputs, 24 VDC, 10 mA, terminal block	UC, CE	**CJ1W-ID201**
	16 inputs, 24 VDC, 7 mA, terminal block		**CJ1W-ID211**
	32 inputs, 24 VDC, 4.1 mA, Fujitsu-compatible connector		**CJ1W-ID231** (See note.)
	32 inputs, 24 VDC, 4.1 mA, MIL-type connector		**CJ1W-ID232** (See note.)
	64 inputs, 24 VDC, 4.1 mA, Fujitsu-compatible connector		**CJ1W-ID261** (See note.)
	64 inputs, 24 VDC, 4.1 mA, MIL-type connector		**CJ1W-ID262** (See note)
AC Input Modules	16 inputs, 100 to 120 VAC, 7 mA (100 V, 50 Hz), terminal block		**CJ1W-IA111**
	8 inputs, 200 to 240 VAC, 10 mA (200 V, 50 Hz), terminal block		**CJ1W-IA201**
Interrupt Input Module	16 inputs, 24 VDC, 7 mA, terminal block		**CJ1W-INT01**
Pulse Catch Input Module	16 inputs, 24 VDC, 7 mA, terminal block		**CJ1W-IDP01**
Relay Bit Output Modules	8 outputs max., 250 VAC/24 VDC, 2 A, independent contacts		**CJ1W-OC201**
	16 outputs max., 250 VAC/24 VDC, 2 A, independent contacts		**CJ1W-OC211**
Transistor Output Modules	12 to 24 VDC, 2 A, 8 outputs, sinking, terminal block		**CJ1W-OD201**
	8 outputs, 24 VDC, 2 A, sourcing, load short-circuit protection, alarm, terminal block		**CJ1W-OD202**
	8 outputs, 12 to 24 VDC, 0.5 A, sinking, terminal block		**CJ1W-OD203**
	8 outputs, 24 VDC, 0.5 A, sourcing, terminal block		**CJ1W-OD204**
	16 outputs, 12 to 24 VDC, 0.5 A, sinking, terminal block		**CJ1W-OD211**
	16 outputs, 24 VDC, 0.5 A, sourcing, load short-circuit protection, disconnection detection, alarm, terminal block		**CJ1W-OD212**
	32 outputs, 12 to 24 VDC, 0.5 A, sinking, Fujitsu-compatible connector		**CJ1W-OD231** (See note.)
	32 outputs, 24 VDC, 0.5 A, sourcing, load short-circuit protection, alarm, MIL connector		**CJ1W-OD232** (See note.)
	32 outputs, 12 to 24 VDC, 0.5 A, sinking, MIL-type connector		**CJ1W-OD233** (See note.)
	64 outputs, 12 to 24 VDC, 0.3 A, sinking, Fujitsu-compatible connector		**CJ1W-OD261** (See note.)
	64 outputs, 12 to 24 VDC, 0.3 A, sourcing, MIL-type connector		**CJ1W-OD262** (See note.)
	64 outputs, 12 to 24 VDC, 0.3 A, sinking, MIL-type connector		**CJ1W-OD263** (See note.)
Triac Output Module	8 outputs, 250 VAC, 0.6 A, terminal block		**CJ1W-OA201**
Mixed I/O Modules 24VDC Input/Transistor Output Mixed I/O Modules 24VDC Input/Transistor Output	Fujitsu-compatible connector Inputs: 24 VDC, 16 inputs Outputs: 12 to 24 VDC, 0.5A, 16 outputs		**CJ1W-MD231** (See note.)
	Fujitsu-compatible connector Inputs: 24 VDC, 32 inputs Outputs: 12 to 24 VDC, 0.3A, 32 outputs		**CJ1W-MD261** (See note.)
	MIL-type connector Inputs: 24 VDC, 16 inputs Outputs: 24 VDC, 0.5 A, 16 outputs Load short-circuit protection		**CJ1W-MD232** (See note.)
	MIL-type connector Inputs: 24 VDC, 16 inputs Outputs: 12 to 24 VDC, 0.5A, 16 outputs		**CJ1W-MD233** (See note.)
	MIL-type connector Inputs: 24 VDC, 32 inputs Outputs: 12 to 24 VDC, 0.3A, 32 outputs		**CJ1W-MD263** (See note.)
TTL Mixed I/O Module	MIL-type connector Inputs: TTL (5 VDC), 32 inputs outputs: TTL (5 VDC, 35mA), 32 outputs		**CJ1W-MD563** (See note.)
B7A Interface Modules	64 inputs	CE	**CJ1W-B7A14**
	64 outputs		**CJ1W-B7A04**
	32 inputs/32 outputs		**CJ1W-B7A22**

Note: Connectors for wiring are not provided with connector models. Either purchase the following Connectors, or use an OMRON XW2□ Connector-Terminal Block Conversion Unit or a G7□ I/O Relay Terminal.

■ Wiring Connectors for 32-Point and 64-Point I/O Modules

Item	Description/Specifications		Standards	Part number
	Connection	Additional information		
Fujitsu connector	Soldered	Connector: FCN-361J040-AU Connector Cover: FCN-360C040-J2	—	**C500-CE404**
	Crimped	Housing: FCN-363J040 Contactor: FCN-363J-AU Connector Cover: FCN-360C040-J2		**C500-CE405**
	Pressure welded	FCN-367J040-AU/F		**C500-CE403**
MIL-type connector	Pressure welded	FRC5-A040-3T0S		**XG4M-4030-T**

■ Special I/O Modules

Item	Description/Specifications	Standards	Part number
Analog Input Module	8 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/8000, Conversion speed: 250 μs/point max. (Settable to 1/4000 and 1 ms/point.)	UC, CE	**CJ1W-AD081-V1**
	4 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/8000, Conversion speed: 250 μs/point max. (Settable to 1/4000 and 1 ms/point.)		**CJ1W-AD041-V1**
Analog Output Module	8 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V) Resolution: 1/4000, Conversion speed: 1ms/point max. (Settable to 1/8000, 250 μs/point)		**CJ1W-DA08V**
	8 outputs, (4 to 20 mA) Resolution: 1/4000, Conversion speed: 1 ms/point max. (Settable to 1/8000, 250 μs/point		**CJ1W-DA08C**
	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		**CS1W-DA041**
	2 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/4000, Conversion speed: 1 ms/point max.		**CJ1W-DA021**
Analog I/O Module	4 inputs, 2 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, −10 to 10 V, 4 to 20 mA) Resolution: 1/4000, Conversion speed: 1ms/point max. (Settable to 1/8000, 250 μs/point)		**CJ1W-MAD42**
Temperature Control Modules	4 loops, thermocouple input, NPN output		**CJ1W-TC001**
	4 loops, thermocouple input, PNP output		**CJ1W-TC002**
	2 loops, thermocouple input, NPN output, heater burnout detection function		**CJ1W-TC003**
	2 loops, thermocouple input, PNP output, heater burnout detection function		**CJ1W-TC004**
	4 loops, platinum resistance thermometer input, NPN output		**CJ1W-TC101**
	4 loops, platinum resistance thermometer input, PNP output		**CJ1W-TC102**
	2 loops, platinum resistance thermometer input, NPN output, heater burnout detection function		**CJ1W-TC103**
	2 loops, platinum resistance thermometer input, PNP output, heater burnout detection function		**CJ1W-TC104**
High-speed Counter Module	2 inputs, max. input frequency: 500 kpps		**CJ1W-CT021**
Position Control Modules	Pulse train, open collector output, 1 axis		**CJ1W-NC113**
	Pulse train, open collector output, 2 axes		**CJ1W-NC213**
	Pulse train, open collector output, 4 axes (See Note.)		**CJ1W-NC413**
	Pulse train, line driver output, 1 axis		**CJ1W-NC133**
	Pulse train, line driver output, 2 axes		**CJ1W-NC233**
	Pulse train, line driver output, 4 axes (See Note.)		**CJ1W-NC433**
I/O Sensor Modules	For V600 Series, 1 R/W Head		**CJ1W-V600C11**
	For V600 Series, 2 R/W Heads		**CJ1W-V600V12**

■ Position Control Software and Terminal Blocks

Item	Description/Specifications	Standards	Part number
CX-Position (NC Support Software)	Windows 95, 98, NT 4.0, or 2000, Pentium 100 MHz or better, 32 Mbytes of memory min., 50 Mbytes of hard disk space min.	—	**WS02-NCTC1-E**
Servo Relay Terminal Blocks (See Note.)	For 1-Axis Position Control Module (without communications support) (CJ1W-CN113/133, CS1W-NC113/133, C200HW-NC113, C200H-NC112)		**XW2B-20J6-1B**
	For 2- or 4-Axis Position Control Module (without communications support) (CJ1W-CN213/233/413/433, CS1W-NC213/233/413/433, C200HW-NC213/413, C500-NC213/211, C200H-NC211)		**XW2B-40J6-2B**
	For 2- or 4-Axis Position Control Module (with communications support) (CJ1W-CN213/233/413/433, CS1W-NC213/233/413/433, C200HW-NC213/413)		**XW2B-40J6-4A**

Note: The ambient operating temperature for 4-Axis Position Control Modules is 0 to 50°C; the allowable voltage fluctuation on the external 24-VDC power supply is 22.8 to 25.2 VDC (24 V ±5%).

■ Cables for Position Control Modules

Item	Description/Specifications	Cable length	Standards	Part number
Position Control Module Cables (See Note.)	Connects CJ1W-NC113 to W-Series	0.5 m	—	**XW2Z-050J-A14**
	Connects CJ1W-NC113 to W-Series	1 m		**XW2Z-100J-A14**
	Connects CJ1W-NC213/413 to W-Series	0.5 m		**XW2Z-050J-A15**
	Connects CJ1W-NC213/413 to W-Series	1 m		**XW2Z-100J-A15**
	Connects CJ1W-NC113 to SMARTSTEP	0.5 m		**XW2Z-050J-A16**
	Connects CJ1W-NC113 to SMARTSTEP	1 m		**XW2Z-100J-A16**
	Connects CJ1W-NC213/413 to SMARTSTEP	0.5 m		**XW2Z-050J-A17**
	Connects CJ1W-NC213/413 to SMARTSTEP	1 m		**XW2Z-100J-A17**
	Connects CJ1W-NC133 to W-Series	0.5 m		**XW2Z-050J-A18**
	Connects CJ1W-NC133 to W-Series	1 m		**XW2Z-100J-A18**
	Connects CJ1W-NC233/433 to W-Series	0.5 m		**XW2Z-050J-A19**
	Connects CJ1W-NC233/433 to W-Series	1 m		**XW2Z-100J-A19**
	Connects CJ1W-NC133 to SMARTSTEP	0.5 m		**XW2Z-050J-A20**
	Connects CJ1W-NC133 to SMARTSTEP	1 m		**XW2Z-100J-A20**
	Connects CJ1W-NC233/433 to SMARTSTEP	0.5 m		**XW2Z-050J-A21**
	Connects CJ1W-NC233/433 to SMARTSTEP	1 m		**XW2Z-100J-A21**

Note: Two Servo Relay Units and two cables for the Position Control Module are required for a 4-Axis Position Control Module.

■ Industrial Networking and Communications Modules

Item		Description/Specifications	Standards	Part number
CompoBus/S Master Module		CompoBus/S remote I/O, 256 points max.	UC, CE	**CJ1W-SRM21**
Controller Link Modules		Wired (shielded twisted-pair cable)		**CJ1W-CLK21-V1**
	Controller Link Relay Terminal	Wired Includes 5 Terminals	—	**CJ1W-TB101**
	Controller Link Support Board	Twisted pair, PCI Bus, with support software		**3G8F7-CLK21-E**
		Twisted pair ISA Bus, with support software		**3G8F5-CLK21-E**
Serial Communications Module		One RS-232C port and one RS-422/485 port	U, CE	**CJ1W-SCU41**
		Two RS-232C ports		**CJ1W-SCU21**
RS-232C to RS-422/485 converter		Used for Serial PLC Link with CJ1M. Converts an RS-232C port to an RS-422/485 Port. Mounts directly to the CPU.		**CJ1W-CIF11**
Simple Communications Unit		CompoWay/F adapter for communications with Omron Process and Temperature Controllers and Panel Meters		**CJ1W-CIF21**
RS-232C-RS-422A Conversion Module		1 RS-232C port and 1 RS-422A terminal block	—	**NT-AL001**
Ethernet Module		10 Base-T/100 Base-Tx	UC, CE	**CJ1W-ETN21**
DeviceNet Module		Functions as master and/or slave; allows control of 32,000 points max. per master.		**CJ1W-DRM21**
ProfiBus-DP Slave Module			UC	**CJ1W-PRT21**
ProfiBus-DP Master Module		Functions as a master; CJ1W-PRM21 modules allow for 7,168 words of I/O data per PLL. Utilizes FDT/DTM technology.		**CJ1W-PRM21**

■ DeviceNet Tools

Item	Description/Specifications	Standards	Part number
DeviceNet Configurator	Software only (Windows 95, 98, NT 4.0, or 2000)	—	**WS02-CFDC1-E**
	ISA board with software (Windows 95, 98, or NT 4.0)		**3G8F5-DRM21-E**
	PC card with software (Windows 95 or 98)		**3G8E2-DRM21-E**
NX-Server	DDE Edition		**WS02-NXD1-E**

■ DeviceNet Slaves

Item		Description/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.	4 transistor outputs (sinking)	U, C, CE	**CPM2C-S100C-DRT**
			4 transistor outputs (sourcing)		**CPM2C-S110C-DRT**
I/O Link Modules		512 internal inputs, 512 internal outputs (between CS1 Series, CJ1 Series or C200HX/HG/HE PLC and Master)			**C200HW-DRT21**
		16 internal inputs/16 internal outputs (between CQM1/CQM1H and Master)			**CQM1-DRT21**
		32 internal inputs/32 internal outputs (between CPM1A/CPM2A and Master)			**CPM1A-DRT21**
Remote I/O Terminals with Transistors		8 input points (NPN with + common)			**DRT1-ID08**
		8 input points (PNP with − common)			**DRT1-ID08-1**
		8 output points (NPN with − common)			**DRT1-OD08**
		8 output points (PNP with +common)			**DRT1-OD08-1**
		16 input points (NPN with + common)			**DRT1-ID16**
		16 input points (PNP with − common)			**DRT1-ID16-1**
		16 output points (NPN with − common)			**DRT1-OD16**
		16 output points (PNP with + common)			**DRT1-OD16-1**
		16 input points (NPN with + common) 16 output points (NPN with − common)			**DRT1-MD16**
Remote I/O Terminals with Transistors and 3-tier Terminal Block	Common power supply for communications and internal circuits	16 input points (NPN with + common)		—	**DRT1-ID16TA**
		16 input points (PNP with − common)			**DRT1-ID16TA-1**
		16 input points (NPN with + common) 16 output points (NPN with − common)			**DRT1-MD16TA**
		16 input points (PNP with − common) 16 output points (PNP with + common)			**DRT1-MD16TA-1**
		16 output points (NPN with − common)			**DRT1-OD16TA**
		16 output points (PNP with + common)			**DRT1-OD16TA-1**
	Separate power supplies for communications and internal circuits	16 input points (NPN with + common)		CE	**DRT1-ID16T**
		16 input points (PNP with − common)			**DRT1-ID16T-1**
		16 input point (NPN with + common) 16 output points (NPN with − common)			**DRT1-MD16T**
		16 input point (PNP with − common) 16 output points (PNP with + common)			**DRT1-MD16T-1**
		16 output points (PNP with − common)			**DRT1-OD16T**
		16 output points (NPN with + common)			**DRT1-OD16T-1**

(This table continues on the next page.)

DeviceNet Slaves (continued)

Item		Description/Specifications	Standards	Part number
Remote I/O Terminals with Transistors and Connectors		32 input points (NPN with + common)	CE	**DRT1-ID32ML**
		32 input points (PNP with − common)		**DRT1-ID32ML-1**
		32 output points (NPN with − common)		**DRT1-OD32ML**
		32 output points (PNP with + common)		**DRT1-OD32ML-1**
		32 input points (NPN with − common) 32 output points (NPN with − common)		**DRT1-MD32ML**
		32 input points (PNP with + common) 32 output points (PNP with + common)		**DRT1-MD32ML-1**
	Mounting Bracket B	---	—	**SRT2-ATT02**
Remote Adapters		16 input points (NPN with + common), prewired connector	U, C, CE	**DRT1-ID16X**
		16 input points (PNP with − common), prewired connector		**DRT1-ID16X-1**
		16 output points (NPN with − common), prewired connector		**DRT1-OD16X**
		16 output points (PNP with + common), prewired connector		**DRT1-OD16X-1**
	Flat Cable Connectors with MIL Plugs	Straight DIP pins	—	**XG4A-2031**
		L-shaped DIP pins		**XG4A-2034**
DeviceNet Fiber Amplifier Sensor Communication Module		Connects to up to 16 Fiber Amplifier Modules for the E3X-DA-N		**E3X-DRT21**
		Fiber Amplifier Module		**E3X-DA6-P** (Order the Fiber Amplifier Module and Reduced-wiring Connector together.)
		Reduced-wiring Connector		**E3X-CN02** (Order the Fiber Amplifier Module and Reduced-wiring Connector together.)
		Terminal Unit		**E39-TM1**
Sensor Terminals (for 2-wire Senors)		8 sensor I/O points (NPN), 2 inputs per Sensor		**DRT1-HD16S**
		8 sensor I/O points (PNP)		**DRT1-ND16S**
	Cable Connectors	0.3 to 0.5 mm^2		**XS8A-0441** (Each package contains 10 Connectors. Always order in multiples of 10.)
		0.14 to 0.2 mm^2		**XS8A-0442** (Each package contains 10 Connectors. Always order in multiples of 10.)
Water-resistant Terminals		4 input points (NPN with + common)	CE	**DRT1-ID04CL**
		4 input points (PNP with − common)		**DRT1-ID04CL-1**
		4 output points (NPN with − common)		**DRT1-OD04CL**
		4 output points (PNP with + common)		**DRT1-OD04CL-1**
		8 input points (NPN with + common)		**DRT1-ID08CL**
		8 input points (PNP with − common)		**DRT1-ID08CL-1**
		8 output points (NPN with − common)		**DRT1-OD08CL**
		8 output points (PNP with + common)		**DRT1-OD08CL-1**

(This table continues on the next page.)

DeviceNet Slaves (continued)

Item	Description/Specifications		Standards	Part number
Environment-resistant Terminals	8 input points (NPN with + common)		CE	**DRT1-ID08C**
	16 input points (NPN with + common)			**DRT1-HD16C**
	16 input points (PNP with − common)			**DRT1-HD16C-1**
	8 output points (NPN with − common)			**DRT1-OD08C**
	16 output points (NPN with − common)			**DRT1-WD16C**
	16 output points (PNP with + common)			**DRT1-WD16C-1**
	8 input points (NPN with + common) 8 output points (NPN with − common)			**DRT1-MD16C**
	8 input points (PNP with − common) 8 output points (PNP with + common)			**DRT1-MD16C-1**
B7AC Interface Terminal	10 input points x 3 (3 branches for the B7AC)		U, C, CE	**DRT1-B7AC**
Analog Input Terminals	4 input points (4 words) or 2 input points (2 words) (Set via DIP switch.)		CE	**DRT1-AD04**
	4 input points (4 words)			**DRT1-AD04H**
Analog Output Terminals	2 output points (2 words)	Current: 0 to 20 mA, 4 to 20 mA		**DRT1-DA02**
		Voltage: 1 to 5 V, 0 to 10 V, − 10 to 10 V		
Temperature Input Terminals	4 thermocouple inputs (4 words)	Inputs: R, S, K1, K2, J1, J2, T, E, B, N, L1, L2, U, W, PLII		**DRT1-TS04T**
	4 RTD inputs (4 words)	Inputs: Pt100, JPt100		**DRT1-TS04P**
RS-232C Module	Two RS-232C ports, 16 inputs (signal status)		—	**DRT1-232C2**
Digital Controller	DeviceNet-compatible Digital Controller			**E5EK-AA2-DRT**
High-density Temperature Controller	DeviceNet-compatible High-density Temperature Controller			**E5ZE-8□D1-□B-V2**
Multi-function Compact Inverter DeviceNet Communications Module	DeviceNet Communications Module for the 3G3MV			**3G3MV-PDRT1-SINV**
High-function General-purpose Inverter DeviceNet Communications Module	DeviceNet Communications Module for the 3G3RV and 3G3FV			**3G3FV-PDRT1-SIN**
Intelligent Flag III	DeviceNet-compatible ID system			**V600-HAM42-DRT**
Vision Sensor Controller	DeviceNet-compatible vision system			**F150-C10V3-DRT**
Super-compact Signal Converter Bases	DeviceNet-compatible Bases			**K3FM-BI□/BO□**
Programmable Terminal DeviceNet Interface Module	DeviceNet Interface Module for the NT31/NT631 Series			**NT-DRT21**
DeviceNet Wireless Modules	DeviceNet Wireless Master Module			**WD30-ME**
	DeviceNet Wireless Slave Module			**WD30-SE**

■ DeviceNet Multiple I/O Terminal Modules and Connecting Cables

Item		Description/Specifications		Standards	Part number
		I/O points	Type		
Communications Module		—	Total Slave I/O points: 1,024 max.	U, C, CE	**DRT1-COM**
Digital I/O Modules	Modules with Terminal Blocks	16 inputs	NPN (+ common)		**GT1-ID16**
		16 inputs	PNP (– common)		**GT1-ID16-1**
		16 outputs	NPN (– common)		**GT1-OD16**
		16 outputs	PNP (+ common)		**GT1-OD16-1**
	Modules with MOLEX Connectors	16 inputs	NPN (+ common)		**GT1-ID16MX**
		16 inputs	PNP (– common)		**GT1-ID16MX-1**
		16 outputs	NPN (– common)		**GT1-OD16MX**
		16 outputs	PNP (+ common)		**GT1-OD16MX-1**
	Modules with Fujitsu Connectors	16 inputs	NPN (+ common)		**GT1-ID16ML**
		16 inputs	PNP (– common)		**GT1-ID16ML-1**
		16 outputs	NPN (– common)		**GT1-OD16ML**
		16 outputs	PNP (+ common)		**GT1-OD16ML-1**
	Modules with D-Sub 25-pin Connectors	16 inputs	NPN (+ common)		**GT1-ID16DS**
		16 inputs	PNP (– common)		**GT1-ID16DS-1**
		16 outputs	NPN (– common)		**GT1-OD16DS**
		16 outputs	PNP (+ common)		**GT1-OD16DS-1**
	Modules with High-density Fujitsu Connectors	32 inputs	NPN (+ common)		**GT1-ID32ML**
		32 inputs	PNP (– common)		**GT1-ID32ML-1**
		32 outputs	NPN (– common)		**GT1-OD32ML**
		32 outputs	PNP (+ common)		**GT1-OD32ML-1**
Analog Input Modules		8 inputs	MOLEX connector		**GT1-AD08MX**
		4 inputs	Terminal block		**GT1-AD04**
Analog Output Modules		4 outputs	MOLEX connector		**GT1-DA04MX**
		4 outputs	Terminal block		**GT1-DA04**
Temperature Input Modules		4 inputs	Thermocouple		**GT1-TS04T**
		4 inputs	Platinum resistance thermometer		**GT1-TS04P**
Counter Module		1 input, 2 outputs	1 input, 2 outputs Counter Module with encoder input	CE	**GT1-CT01**
Relay Output Modules		8 outputs	8 relay outputs, 2A, SPST-NO	U, C, CE	**GT1-ROP08**
		16 outputs	8 relay outputs, 5A, SPST-NO		**GT1-ROS16**
I/O Module Connecting Cable		—	1 m	—	**GCN1-100**
Molex Connectors			3-wire connectors for use with Molex Connector modules (Bus of 25)	U, C	**GCN1-MX25B**
Molex Connector with 1 m cable			1-m cables with Molex Connector attached to one end (Bus of 10)		**GCN1-MX010A**

■ CompoBus/S Slaves

Item	Description/Specifications	Standards	Part number
I/O Link Modules	For CPM2C; 8 input points, 8 output points	CE	**CPM2C-SRT21**
	For CPM1A/CPM2A; 8 input points, 8 output points	U, C, CE	**CPM1A-SRT21**
Remote I/O Terminals with Transistors	4 input points, NPN (+ common)		**SRT2-ID04**
	4 input points, PNP (– common)		**SRT2-ID04-1**
	4 output points, NPN (– common)		**SRT2-OD04**
	4 output points, PNP (+ common)		**SRT2-OD04-1**
	8 input points, NPN (+ common)		**SRT2-ID08**
	8 input points, PNP (– common)		**SRT2-ID08-1**
	8 output points, NPN (– common)		**SRT2-OD08**
	8 output points, PNP (+ common)		**SRT2-OD08-1**
	16 input points, NPN (+ common)		**SRT2-ID16**
	16 input points, PNP (– common)		**SRT2-ID16-1**
	16 output points, NPN (– common)		**SRT2-OD16**
	16 output points, PNP (+ common)		**SRT2-OD16-1**
Remote I/O Terminals with Transistors and 3-tier Terminal Block	16 input points, NPN (+ common)		**SRT2-ID16T**
	16 input points, PNP (– common)		**SRT2-ID16T-1**
	16 I/O points, NPN (inputs: + common, outputs: – common)		**SRT2-MD16T**
	16 I/O points, PNP (inputs: – common, outputs: + common)		**SRT2-MD16T-1**
	16 output points, NPN (– common)		**SRT2-OD16T**
	16 output points, PNP (+ common)		**SRT2-OD16T-1**
Remote Input Terminals with Transistors and Connectors (4/8 points)	4 input points, NPN (+ common)	CE	**SRT2-ID04MX**
	8 input points, PNP (+ common)		**SRT2-ID08MX**
Remote Output Terminals with Relays	8 relay output points	U, C, CE	**SRT2-ROC08**
	16 relay output points		**SRT2-ROC16**
	8 power MOSFET relay output points		**SRT2-ROF08**
	16 power MOSFET relay output points		**SRT2-ROF16**
Remote I/O Terminals with Transistors and Connectors	32 input points, NPN (+ common)	CE	**SRT2-ID32ML**
	32 input points, PNP (– common)		**SRT2-ID32ML-1**
	32 output points, NPN (– common)		**SRT2-OD32ML**
	32 output points, PNP (+ common)		**SRT2-OD32ML-1**
	32 I/O points, NPN (inputs: + common, outputs: – common)		**SRT2-MD32ML**
	32 I/O points, PNP (inputs: – common, outputs: + common)		**SRT2-MD32ML-1**
	8 input points, NPN (+ common)	U, C, CE	**SRT2-VID08S**
	8 input points, PNP (– common)		**SRT2-VID08S-1**
	8 output points, NPN (– common)		**SRT2-VOD08S**
	8 output points, PNP (+ common)		**SRT2-VOD08S-1**
	16 input points, NPN (+ common)		**SRT2-VID16ML**
	16 input points, PNP (– common)		**SRT2-VID16ML-1**
	16 output points, NPN (– common)		**SRT2-VOD16ML**
	16 output points, PNP (+ common)		**SRT2-VOD16ML-1**
	Mounting Bracket A		**SRT2-ATT01**
	Mounting Bracket B		**SRT2-ATT02**

(This table continues on the next page.)

CompoBus/S Slaves (continued)

Item	Description/Specifications	Standards	Part number
Waterproof Terminals (with Transistors)	4 input points, NPN (+ common)	CE	**SRT2-ID04CL**
	4 input points, PNP (– common)		**SRT2-ID04CL-1**
	4 output points, NPN (– common)		**SRT2-OD04CL**
	4 output points, PNP (+ common)		**SRT2-OD04CL-1**
	8 input points, NPN (+ common)		**SRT2-ID08CL**
	8 input points, PNP (– common)		**SRT2-ID08CL-1**
	8 output points, NPN (– common)		**SRT2-OD08CL**
	8 output points, PNP (+ common)		**SRT2-OD08CL-1**
CompoBus/S Fiber Amplifier Sensor Communication Module	Connects to up to 14 Fiber Amplifier Units		**E3X-SRT21**
Sensor Terminals	8 Sensor inputs (NPN)	—	**SRT2-ID08S**
	4 remote-teaching Sensor inputs, 4 outputs (NPN)		**SRT2-ND08S**
	8 Sensor outputs (NPN)		**SRT2-OD08S**
Analog Input Terminal	1 to 4 inputs (set via DIP switch)	U, C. CE	**SRT2-AD04**
Analog Output Terminal	1 or 2 outputs (set via DIP switch)		**SRT2-DA02**
Remote I/O Modules	16 input points, NPN (+ common)	—	**SRT2-ID16P**
	16 output points, NPN (– common)		**SRT2-OD16P**

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