

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 μ s	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 μ s		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 μ s		CJ1M-CPU23
320	10 modules, no expansion racks	10K steps				CJ1M-CPU22
160		5K steps	32K words (DM only, no EM)	.1 μ s		CJ1M-CPU21
640	20 modules, 1 expansion rack	20K steps				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	Fujitsu-compatible connector Inputs: 24 VDC, 16 inputs Outputs: 12 to 24 VDC, 0.5A, 16 outputs		CJ1W-MD231 (See note.)
Mixed I/O Modules 24VDC Input/Transistor Output	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.

Modules

■ 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 Contact: 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 μ s/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 μ s/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: 1 ms/point max. (Settable to 1/8000, 250 μ s/point)		CJ1W-DA08V
	8 outputs, (4 to 20 mA) Resolution: 1/4000, Conversion speed: 1 ms/point max. (Settable to 1/8000, 250 μ s/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: 1 ms/point max. (Settable to 1/8000, 250 μ s/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 $\pm$ 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.

Modules

■ 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	—	CJ1W-TB101
	Controller Link Support Board		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

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)		DRT1-MD32ML
		32 output points (NPN with – common)		
		32 input points (PNP with + common)		DRT1-MD32ML-1
		32 output points (PNP with + common)		
	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
				DRT1-HD16S
Sensor Terminals (for 2-wire Senors)		8 sensor I/O points (NPN), 2 inputs per Sensor		DRT1-ND16S
		8 sensor I/O points (PNP)		
	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

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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

■ 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)	U, C, CE	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)	U, C, CE	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

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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