

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. | L, CE | Cable length: 0.3 m | 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 |
| 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 | |
| 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.

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 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: 1 ms/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: 1 ms/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.

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, PCI Bus, with support software | | 3G8F5-CLK21-E |
| | Twisted pair ISA Bus, with support software | | |
| 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. | U, C, CE | CPM2C-S100C-DRT |
| | | | 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 |
| Remote I/O Terminals with Transistors and 3-tier Terminal Block | Common power supply for communications and internal circuits | — | DRT1-ID16TA |
| | | | DRT1-ID16TA-1 |
| | | | DRT1-MD16TA |
| | | | DRT1-MD16TA-1 |
| | | | DRT1-OD16TA |
| | | | DRT1-OD16TA-1 |
| | Separate power supplies for communications and internal circuits | CE | DRT1-ID16T |
| | | | DRT1-ID16T-1 |
| | | | DRT1-MD16T |
| | | | DRT1-MD16T-1 |
| | | | DRT1-OD16T |
| | | | 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) 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 Sensors) | 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 |
| 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

■ 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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