



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Authorized Distributor:



CompoBus/S

New Products

- Programmable Slaves
- SYSMAC CPM2C CPU Units with CompoBus/S Master Functions
- Waterproof Terminals
- Sensor Terminals
- Remote I/O Modules

Complicated and Time-consuming Wiring,...

Complicated wiring between the PC and repeater terminal block.

System expansion is time-consuming.

Transmission of ON/OFF signals is time-consuming.

Complicated sensor wiring.

Large wiring effort required for distributed devices handling only a small number of I/O points.

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Now Easier and Quicker

Maximum Communications Cycle Time of Only 1 ms
(High-speed Communications Mode)
Exchanges 256 I/O points of data with a maximum of 32 Slaves at a maximum communications cycle time of only 1 ms per point.

Long-distance Communications Mode
With a trunk line length of 500 m and a total branch line length of 100 m (2-conductor VCTF cable), you can branch in any way required using a special flat cable or a 4-conductor VCTF cable as long as the total wiring length is 200 m or less. Communicate at a cycle time of only 6 ms.

Connects through a single dedicated cable, thus greatly saving wiring effort.
Cable or flat cable is selectable.
● Cable is available for multi-drop, T-branch, or multi-branch lines.
● Flat cable connects to T-branch connectors, thus ensuring ease of system expansion.

An Analog Input Terminal with four points and an Analog Output Terminal with two points are available.

Dedicated cable saves wiring effort without repeater terminal block.

A cycle time of 1 ms max. for up to 32 Slaves, 256 I/O points.

T-branches allow easy system expansion.

Easily connects sensors and Slave Units.

Sensor Amplifiers snap on to connect.

Distributed processing of a small number of I/O points.

Note: Cable and flat cables cannot be used together.

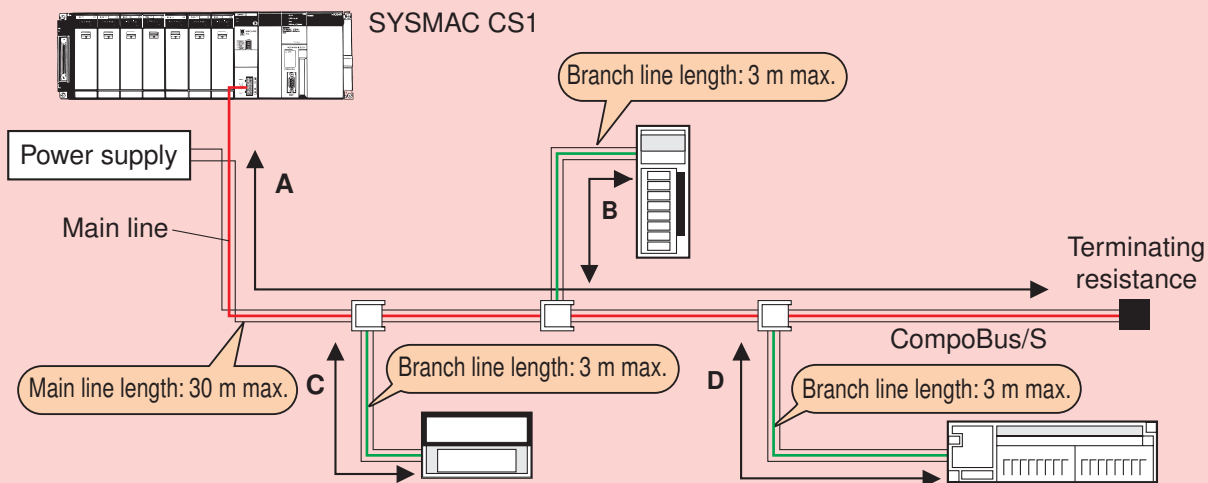
Long-distance Communications Mode Eliminates Wiring Restrictions for More Efficient System Design

Greatly Saves Wiring and Installation Effort and Time for System Maintenance and Expansion

System Design

With conventional High-speed Communications Mode, the following restrictions on the number of branching points and cable length had to be considered when designing the system.

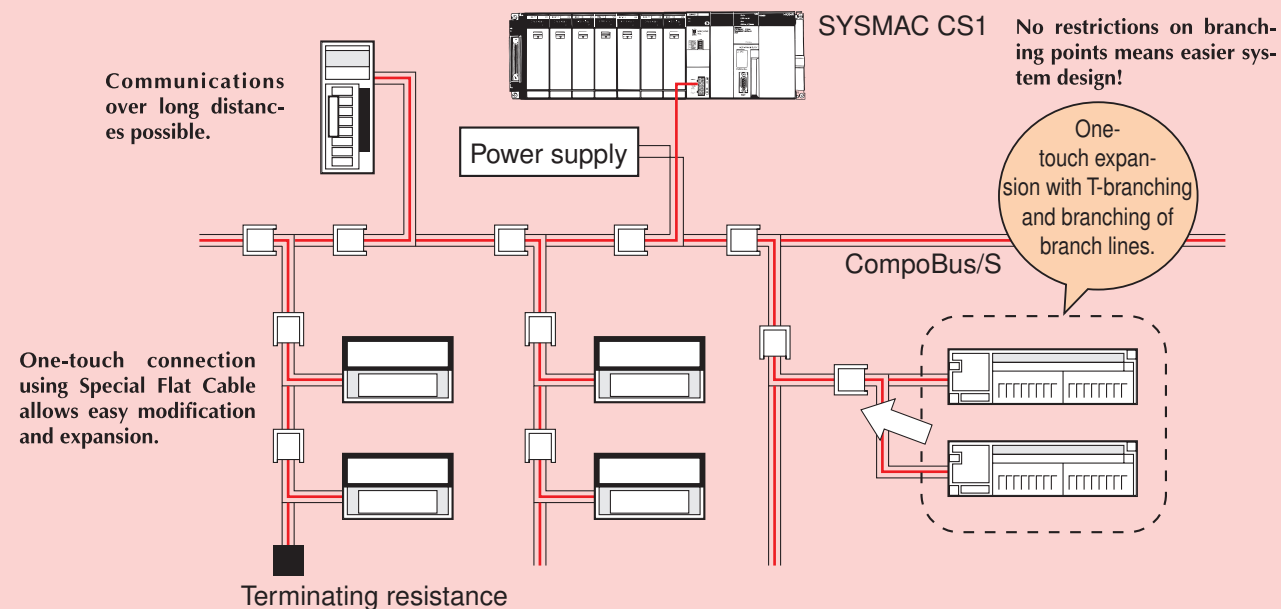
With a Special Flat Cable or a 4-conductor VCTF cable:
Main line length A: 30 m max. Branch line lengths B, C, and D: 3 m max. Total branch line length B + C + D: 30 m max.



* Baud rate: 750 kbps (in High-speed Communications Mode)
* With 2-conductor VCTF cable (in High-speed Communications Mode), main line length: 100 m max.

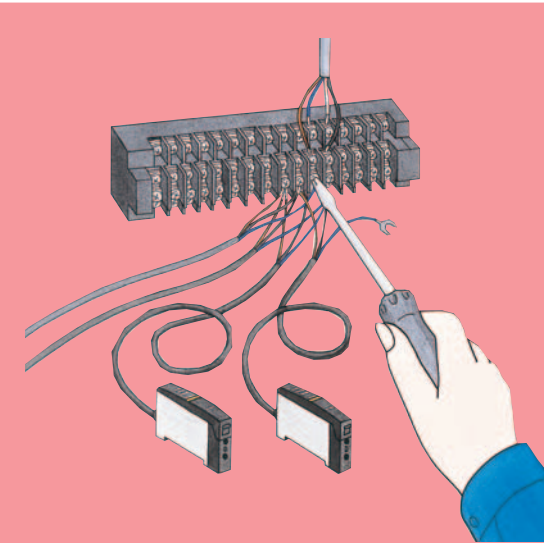


Using CompoBus/S Long-distance Communications Mode (with a Special Flat Cable or a 4-conductor VCTF cable) removes restrictions on main and branch line lengths. Branch freely up to a total cable length of 200 m.

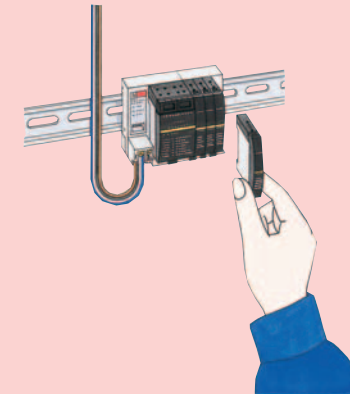


* Baud rate: 93.75 kbps
* Connect a terminating resistance at the end of the cable furthest from the Master.
* With 2-conductor VCTF cable (in Long-distance Communications Mode), main line length: 500 m max.

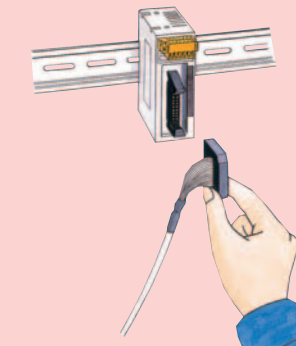
Maintenance



Individual wires must be replaced when using repeater terminal blocks.

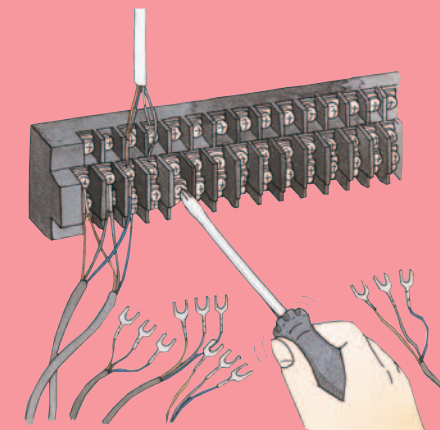


1 Sensor Amplifier Terminals allow easy replacement of sensors through a snap-on attachment.

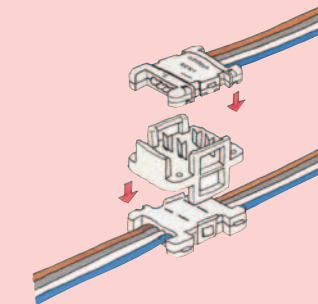


2 CompoBus/S connector models allow snap-on attachment.

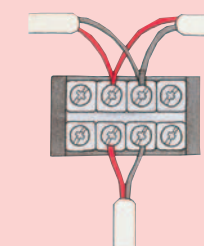
Expansion



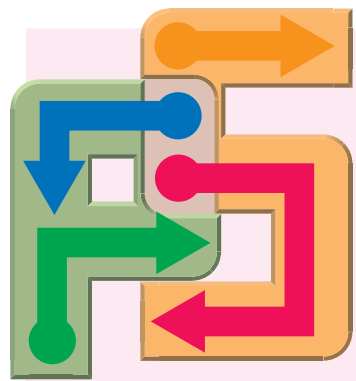
Repeater terminal blocks must be added and wired for I/O expansion.



1 Flat cable can be used with T-branch connectors which allow an increase in the number of Slaves.



2 2-conductor VCTF cable allows multi-branching, thus easily allowing an increase in the number of Slaves.



Programmable Slaves

A slave with the complex functional

Programmable Slaves combine devices, such as sensors and actuators, into one functional unit that is treated as a DeviceNet slave.

Programmable Slaves greatly facilitate device distribution and functional organization. They help standardize programming between units and reduce the amount of programming required at the master. I/O and operational checks can be performed for each functional unit, rather than waiting for final system assembly, as with conventional distributed I/O systems.

ity needed for distributed blocks.

● Functions

OMRON Programmable Slaves function as DeviceNet slaves, yet they provide PLC functionality to enable easy system expansion and create new potential.

2-ms Cycle Time
(for 500 Steps)

High-speed
Counter

Pulse Output

Interrupt
Inputs

256
Timers/
Counters

Calendar/
Clock

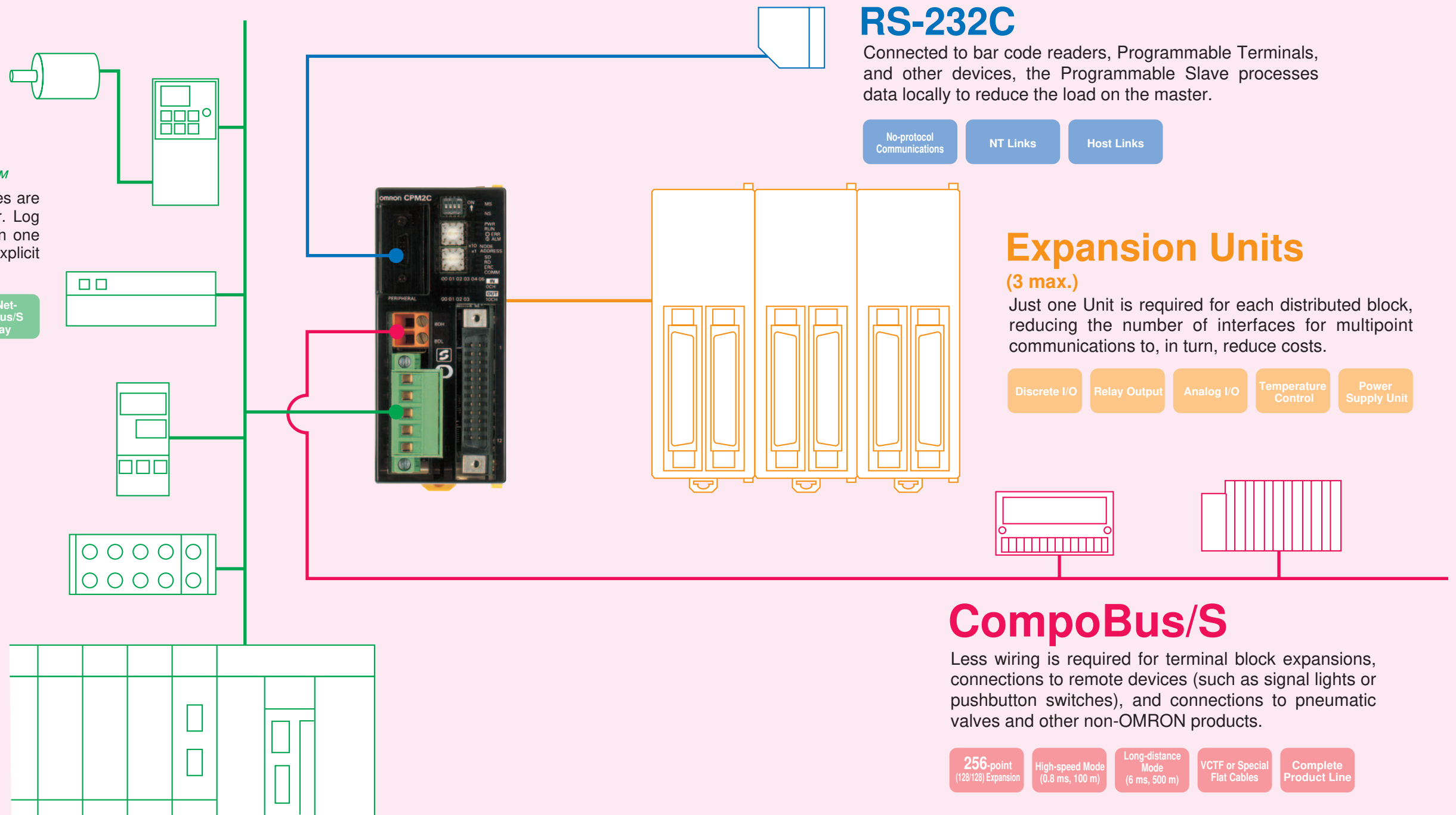
DeviceNet™

Multivord I/O links and explicit messages are used to control slaves from the master. Log data for communications can be sent in one operation whenever necessary using explicit messages.

1,024-point
I/O Links

Explicit
Messages

DeviceNet-
CompoBus/S
Gateway



RS-232C

Connected to bar code readers, Programmable Terminals, and other devices, the Programmable Slave processes data locally to reduce the load on the master.

No-protocol
Communications

NT Links

Host Links

Expansion Units

(3 max.)

Just one Unit is required for each distributed block, reducing the number of interfaces for multipoint communications to, in turn, reduce costs.

Discrete I/O

Relay Output

Analog I/O

Temperature
Control

Power
Supply Unit

CompoBus/S

Less wiring is required for terminal block expansions, connections to remote devices (such as signal lights or pushbutton switches), and connections to pneumatic valves and other non-OMRON products.

256-point
(128/128) Expansion

High-speed Mode
(0.8 ms, 100 m)

Long-distance
Mode
(6 ms, 500 m)

VCTF or Special
Flat Cables

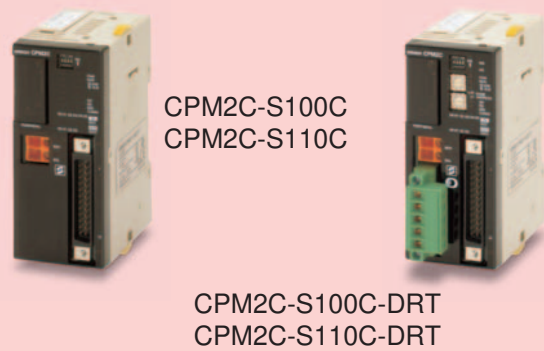
Complete
Product Line

CompoBus/S Products

Master Units

CPU Units with CompoBus/S Master

Programmable Slaves



CompoBus/S Master Control Units

Without RS-232C port

With RS-232C port



CompoBus/S Master Units

Master Unit with 256 points

Master Unit with 128 points

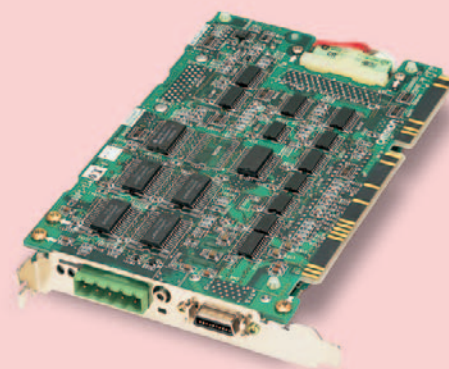


C200HW-SRM21-V1



CQM1-SRM21-V1

SYSMAC Board with CompoBus/S Master Functions



C200PC-ISA□3-SRM

Slave Units

I/O Link Units



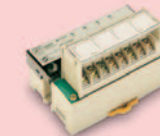
CPM2C-SRT21



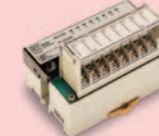
CPM1A-SRT21

Transistor Remote I/O Terminals (NPN/PNP Output)

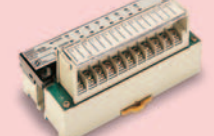
SRT2-ID04(-1)
4 inputs



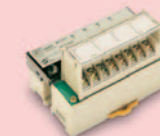
SRT2-ID08(-1)
8 inputs



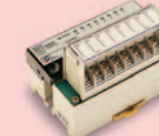
SRT2-ID16(-1)
16 inputs



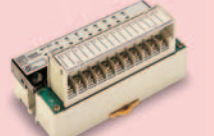
SRT2-OD04(-1)
4 outputs



SRT2-OD08(-1)
8 outputs

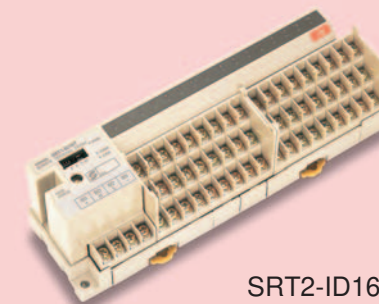


SRT2-OD16(-1)
16 outputs



Note: SRT2-□□□□ indicates NPN models and SRT2-□□□□-1 indicates PNP models.

Transistor Remote I/O Terminals with 3-tier Terminal Block



SRT2-ID16T(-1)

Relay-mounted Remote I/O Terminals

SRT2-ROC08
8 relay outputs



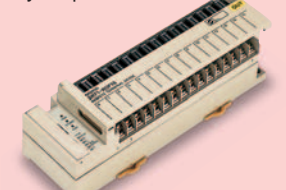
SRT2-ROC16
16 relay outputs



SRT2-ROF08
8 power MOS FET
relay outputs



SRT2-ROF16
16 power MOS FET
relay outputs



Transistor Remote I/O Terminals with Connectors



SRT2-□D32ML(-1)
32 I/O points



SRT2-V□D08S(-1)
8 I/O points

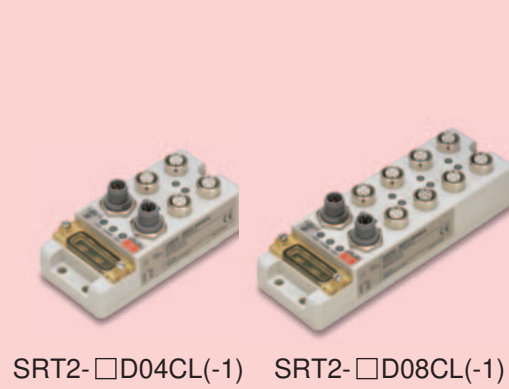


SRT2-V□D16ML(-1)
16 I/O points

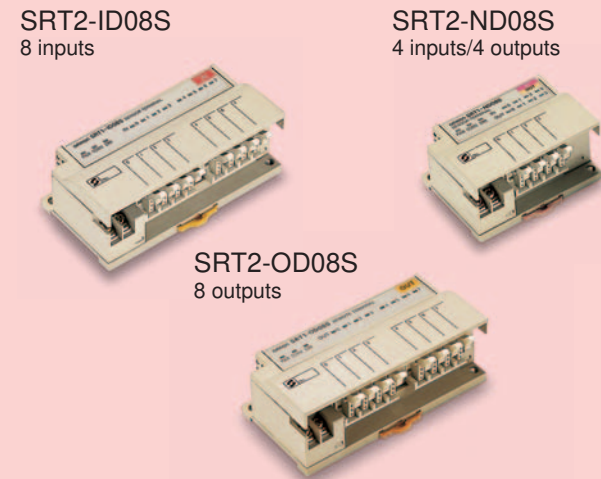
CompoBus/S Products

Slave Units

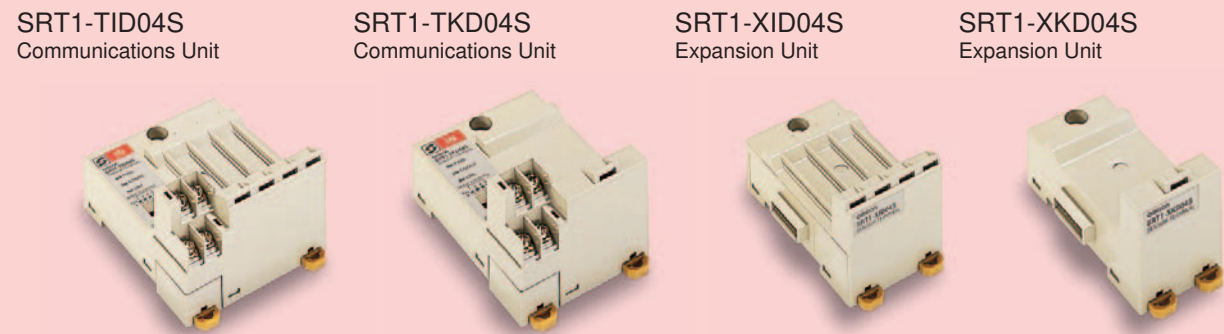
Waterproof Terminals



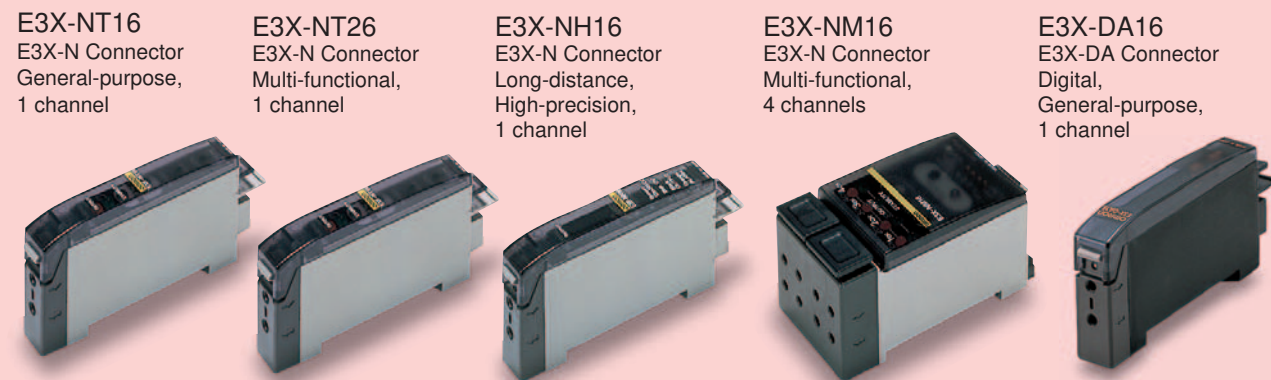
Sensor Terminals



Sensor Amplifier Terminals



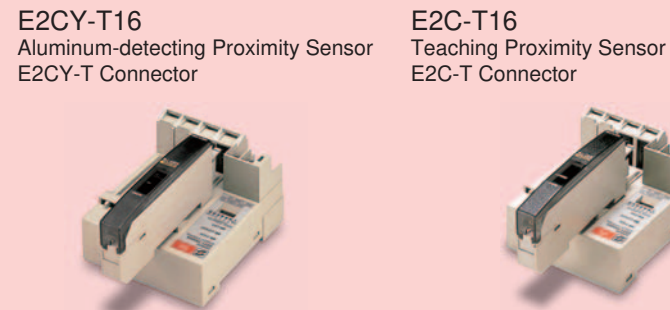
Connector Units (Photoelectric Sensors)



Connector Unit (Terminal Block Unit)



Connector Units (Proximity Sensors)

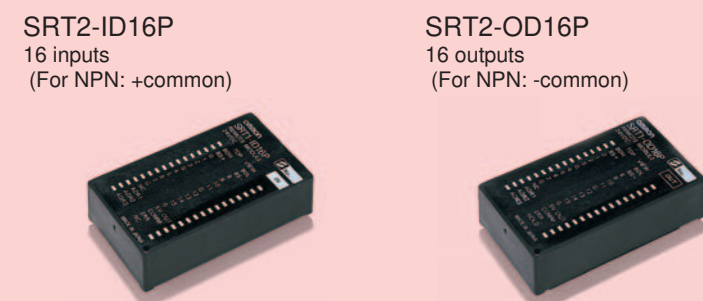


Slave Units

Analog Input Terminals



Remote I/O Modules



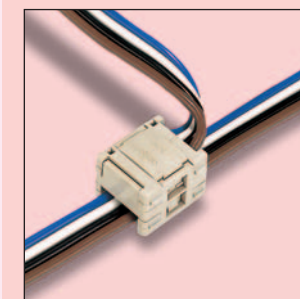
CompoBus/S Position Driver



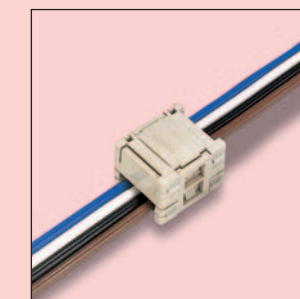
Peripheral Devices

Connectors

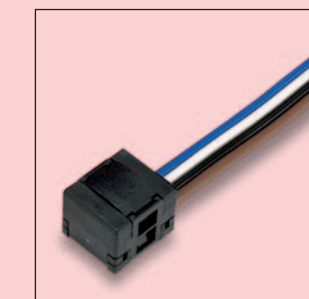
SCN1-TH4
Branch Connector



SCN1-TH4E
Extension Connector

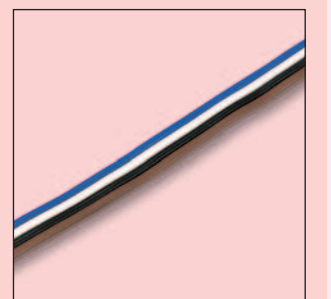


SCN1-TH4T
Connector Terminator



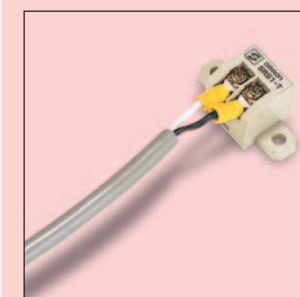
Flat Cable

SCA1-4F10



Terminal Block Terminator

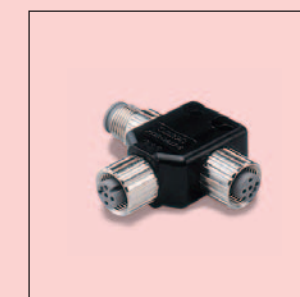
SRS1-T



T-branch Connector

(for VCTF Cable)

XS2R-D427-5



Connector Terminator

(for 4-conductor VCTF Cable)

SRS2-1



Connections to a Wider Range of Slaves Ensured by Upgraded Models

Slave	Master	Conventional models	New models		
		C200HW-SRM21 CQM1-SRM21 SRM1-C01 SRM1-C02 SRM1-C01-V1 SRM1-C02-V1 C200PC-ISA02-SRM C200PC-ISA12-SRM	C200HW-SRM21-V1 CQM1-SRM21-V1 SRM1-C01-V2 SRM1-C02-V2 C200PC-ISA03-SRM C200PC-ISA13-SRM CPM2C-S100C (NEW) CPM2C-S110C (NEW) CPM2C-S100C-DRT (NEW) CPM2C-S110C-DRT (NEW)		
		NKE-made Uniwire CompoBus/S Send Unit SDD-CS1	Communications mode		
			High-speed communications mode	Long-distance communications mode	
	SRT1 Series FND-X□-SRT	Yes Yes	Yes Yes	No No	
Existing product	SRT2-AD04 SRT2-DA02	Yes Yes	Yes Yes	Yes Yes	
	SRT2-V□08S(-1) SRT2-□D08S(-1) SRT2-□D16ML(-1) SRT2-RO□16	Yes Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes	
	SRT2-V□08S(-1) SRT2-□D16(-1) SRT2-RO□08	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	
	CPM2C-SRT21	Yes	Yes	Yes	
	SRT2-□D32ML(-1)	Yes	Yes	Yes	
	CPM1A-SRT21	Yes	Yes	Yes	
	New product	SRT2-ID04CL(-1) SRT2-OD04CL(-1) SRT2-ID08CL(-1) SRT2-OD08CL(-1)	Yes Yes Yes Yes	Yes Yes Yes Yes	Yes Yes Yes Yes
SRT2-ID08S SRT2-ND08S SRT2-OD08S		Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	
SRT2-ID16P SRT2-OD16P		Yes Yes	Yes Yes	Yes Yes	

- Note:** 1. In high-speed communications mode, the maximum transmission distance is 100 m at a baud rate of 750 kbps. In long-distance communications mode (i.e., a newly available mode), the maximum transmission distance is 500 m at a baud rate of 93.75 kbps.
2. The SRT2-AD04 and SRT2-DA02 are available for 16-bit synchronous communications.

Company	Product	Model number	Communications mode	
			High-speed communications mode	Long-distance communications mode
CKD	Solenoid valve for saving wiring effort	4TB1/2/3/4 Series	Yes	Yes (See note.)
		4G Series	Yes	Yes (See note.)
		MN4SO Series	Yes	Yes (See note.)
	Parect regulator	SDA-C	Yes	Yes
SMC	Solenoid valve for SI manifold use	VQ, SY, SX, SQ, SZ Series	Yes	Yes (See note.)
Koganei	F-series solenoid valve	YS2A1, YS2A2	Yes	Yes
	X80M/X88M Series	YS1A1, YS1A2	Yes	Yes
	JA-series solenoid valve	YS5A1, YS5A2	Yes	Yes
	PA, PB-series solenoid valve	YS4A1, YS4A2	Yes	Yes

Note: Refer to the maker for information on long-distance communications mode.

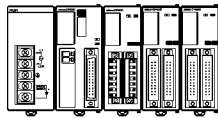
CompoBus/S Connection Examples

High-speed ON/OFF Bus Communications in Remote I/O Systems

Cabtire Cable Connections

Masters

SYSMAC CPM2C

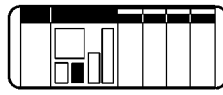


CPM2C-S1□0C CPU Units with CompoBus/S Master (with 256 Points)
CPM2C-S1□0C-DRT Programmable Slaves (with 256 I/O Points)



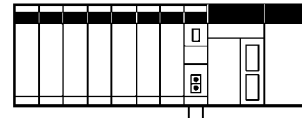
SRM1-C01-V2/
SRM1-C02-V2
Master Controllers (with 256 I/O Points)

SYSMAC CQM1/H

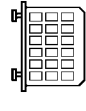


CQM1-SRM21-V1
Master Unit (with 128 I/O Points)

SYSMAC CS1, α C200HX/HG/HE, C200HS



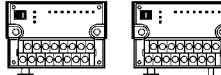
C200HW-SRM21-V1
Master Unit (with 256 I/O Points)



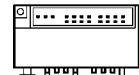
C200PC-ISA□3-SRM SYSMAC Boards (with 256 I/O Points)
3G8B3-SRM00/3G8B3-SRM01 VME Boards (with 256 I/O Points)

Slaves

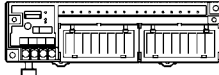
SRT2-ID04(-1)/SRT2-ID08(-1)/
SRT2-ID16(-1)
SRT2-OD04(-1)/SRT2-OD08(-1)/
SRT2-OD16(-1)
Remote I/O Terminals (with 4/8/16 Inputs or 4/8/16 Outputs)



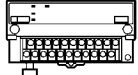
SRT2-□DO8S
Sensor Terminals (with 4 Sensor Inputs, 4 Sensor Outputs, or 8 Sensor Inputs)



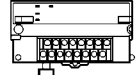
SRT2-□D16T(-1)
Transistor Remote I/O Terminals (3-tier Terminal Block with 16 Transistor I/O Points)



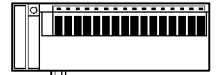
SRT2-AD04
Analog Input Terminal (with 1 to 4 Inputs)



SRT2-DA02
Analog Output Terminal (with 1 to 2 Outputs)



SRT2-ROC08/SRT2-ROC16
SRT2-ROF08/SRT2-ROF16
Relay-mounted Remote I/O Terminal (with 8 or 16 outputs)



Multi-branching connection

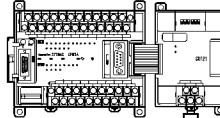
T-branching connection

CPM2C CPU Unit



CPM2C-SRT21
I/O Link Unit (with 8 Inputs and 8 Outputs)

CPM2A CPU Unit



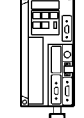
CPM1A-SRT21
I/O Link Unit (with 8 Inputs and 8 Outputs)

SRT2-VID(-1)/VOD(-1)
SRT2-□D32ML(-1)
Remote I/O Terminal (with Connector and 8, 16, or 32 I/O Points)



Multidrop connection

FND-X-□SRT
Position Drivers

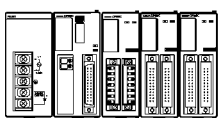


SRS1-T
Terminal-block Terminator

Special Flat Cable Connection

Master

SYSMAC CPM2C

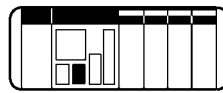


CPM2C-S1□0C CPU Units with CompoBus/S Master (with 156 I/O Points)
CPM2C-S1□0C-DRT Programmable Slaves (with 256 I/O Points)



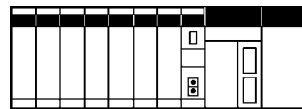
SRM1-C01-V2/
SRM1-C02-V2
Master Controllers (with 256 I/O Points)

SYSMAC CQM1/H

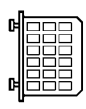


CQM1-SRM21-V1
Master Unit (with 128 I/O Points)

SYSMAC CS1, α C200HX/HG/HE, C200HS



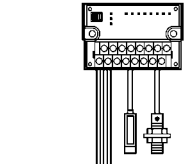
C200HW-SRM21-V1
Master Unit (with 256 I/O Points)



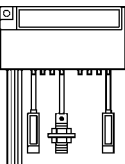
C200PC-ISA□3-SRM SYSMAC Boards (with 256 I/O Points)
3G8B3-SRM00/3G8B3-SRM01 VME Boards (with 256 I/O Points)

Slaves

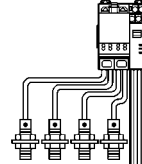
SRT2-ID04(-1)/SRT2-ID08(-1)/
SRT2-ID16(-1)
SRT2-OD04(-1)/SRT2-OD08(-1)/
SRT2-OD16(-1)
Remote I/O Terminals (with 4/8/16 Inputs or 4/8/16 Outputs)



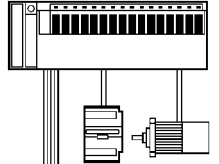
SRT2-□DO8S
Sensor Terminal (with 4 Sensor Inputs, 4 Sensor Outputs, or 8 Sensor Inputs)



SRT1-□D04S Sensor Amplifier Terminal for CompoBus/S (with 4 Inputs or 4 Outputs)



SRT2-ROC08/SRT2-ROC16
SRT2-ROF08/SRT2-ROF16
Relay-mounted Remote Terminals (with 8 or 16 outputs)



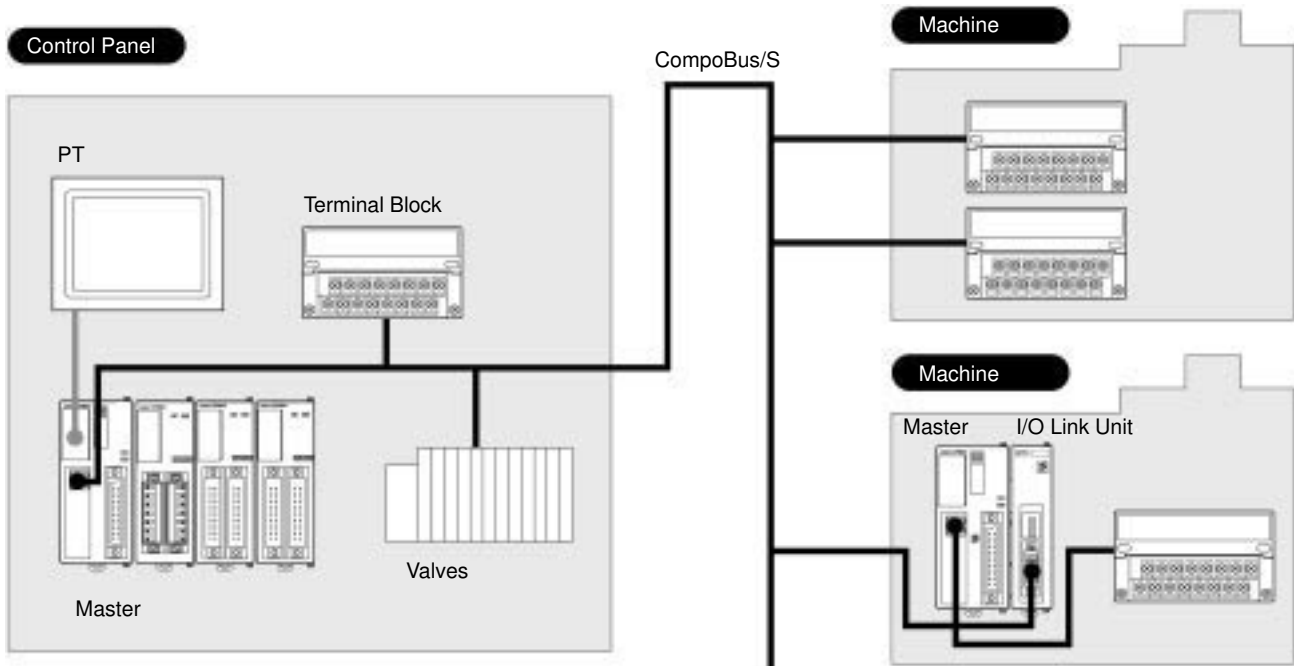
SCN1-TH4T
Connector Terminator

SCA1-4F10
Special Flat Cable

Note: Cabtire cable and flat cable cannot be used together.

Ultra-compact, Thin-profile CPM2C CPU Unit with CompoBus/S Master Offering High-speed Bus Communications with No Complicated Wiring

- Ultra-compact, thin-profile design ideal for on-site applications
Ultra-compact at 40 x 90 x 65 mm (W x H x D) with 10 I/O points and CompoBus/S Master offers versatile expandability to construct systems meeting on-site needs.
- A large number of expansion I/O points reduces system construction cost.
Up to three Expansion Terminals can be connected. Furthermore, CompoBus/S Remote Terminals can be used for expansion I/O points. Not only in-panel wiring but also external wiring is simplified. Furthermore, the miniaturization of the control panel reduces cable, terminal block, and wiring costs.
- Easy System Designing, Modification, and Expansion
CompoBus/S Remote Terminals with high-speed bus communications and no complicated wiring can be used as expansion terminal blocks with minimal modifications as long as room for expansion is reserved at the designing stage.
- A calendar/clock ensures easy machinery control, including data collection and error logs with date and time stamps. This functionality can be used as a weekly timer as well.



Ordering Information

Unit		Inputs	Outputs	Clock	Model
10 points (6 inputs/4 outputs)	Connector model	6 points at 24 VDC	4 transistor sinking outputs	Yes	CPM2C-S100C
			4 transistor sourcing outputs	Yes	CPM2C-S110C

Specifications

■ General Specifications

Item		Specification
Control method		Stored program method
I/O control method		Cyclic scan method (Immediate refreshing can be performed with IORF(97).)
Programming language		Ladder diagram
Instruction length		1 step per instruction 1 to 5 words per instruction
Instructions	Basic instructions	14
	Special instructions	105 instructions, 185 variations
Execution time	Basic instructions	0.64 μs (LD instruction)
	Special instructions	7.8 μs (MOV instruction)
Program capacity		4,096 words
Max. I/O capacity		CPU Unit only: 10 points Expansion I/O Unit: 96 points (32-point Expansion I/O Unit x 3) (Up to 3 Expansion Units can be connected.) CompoBus/S: 256 points (362 points in total)
Input bits		IR 00000 to IR 00915 (Bits not used for input bits can be used for work bits.)
Output bits		IR 01000 to IR 01915 (Bits not used for output bits can be used for work bits.)
CompoBus/S input bits		128 bits: IR 02000 to IR 02715 (words IR 020 to IR 027)
CompoBus/S output bits		128 bits: IR 03000 to IR 03715 (words IR 030 to IR 037)
Work bits		672 bits: IR 02800 to IR 02915 (words IR 028 to IR 029) IR 03800 to IR 03915 (words IR 038 to IR 039) IR 04000 to IR 04915 (words IR 040 to IR 049) IR 20000 to IR 22715 (words IR 200 to IR 227)
Special bits (SR area)		440 bits: SR 22800 to SR 25507 (words SR 228 to SR 255)
Temporary bits (TR area)		8 bits: (TR 0 to TR 7)
Holding bits (HR area)		320 bits: HR 0000 to HR 1915 (words HR 00 to HR 19)
Auxiliary bits (AR area)		384 bits: AR 0000 to AR 2315 (words AR 00 to AR 23) These include CompoBus/S slave status flags (words AR 04 to AR 07).
Link bits (LR area)		256 points: LR 0000 to LR 1515 (words LR 00 to LR 15)
Timers/Counters		256 timers/counters: TIM/CNT 000 to TIM/CNT 255 1-ms timers: TMHH (--) 10-ms timers: TIMH (15) 100-ms timers: TIM 1-s/10-s timers: TIML (--) Decrementing counters: CNT Reversible counters: CNTR (12)
Data memory	Read/Write	2,048 words (DM 0000 to DM 2047) The Error Log is contained in DM 2000 to DM 2021.
	Read only	456 words (DM 6144 to DM 6599)
	PC Setup	56 words (DM 6600 to DM 6655)
Basic interrupt functions	Interrupt inputs	2 interrupts (Used for both counter mode interrupts inputs and quick-response inputs.)
	Scheduled interrupts	1 interrupt

Item		Specification
High-speed counter functions	High-speed counters	1 counter (single phase at 20 kHz or 2 phases at 5 kHz)
	Counter interrupts	1 interrupt (set value comparison or set-value range comparison)
	Interrupt inputs (counter mode)	2 interrupts (Used for both external interrupts inputs and quick-response inputs.)
	Count-up interrupts	2 interrupts (Used for both external interrupts inputs and quick-response inputs.)
Quick-response inputs		2 points (Used for both external interrupts inputs and counter mode interrupt inputs.) Min. input pulse width: 50 μs max.
Pulse output		2 points with no acceleration/deceleration, 10 Hz to 10 kHz each, and no direction control: 1 point with trapezoid acceleration/deceleration, 10 Hz to 10 kHz with direction control: or 2 points with variable duty-ratio outputs
Synchronized pulse control		1 point
Input time constant (ON response time = OFF response time)		Can be set for CPU Unit inputs and Expansion Unit inputs only (1, 2, 3, 5, 10, 20, 40, or 80 ms)
Clock		Equipped with clock (built-in RTC)
Communications functions		Peripheral port: Supports Host Link, peripheral bus, no-protocol communications, and Programming Console connections. RS-232C port: Supports Host Link, no-protocol communications, 1-to-1 Link, or 1-to-1 NT Link connections.
Power failure backup function		Data in HR, AR, Counter (CNT), and Data Memory (DM) areas is held.
Memory backup		Non-volatile (flash) memory: Program, read-only DM area, and PC Setup Memory backup (lithium battery: 2 years lifetime): DM area, HR area, AR area, and counter values
Self-diagnostic functions		CPU error (watchdog timer), memory errors, communications errors, setting errors, battery errors, and expansion I/O bus errors
Program check		No END instruction, programming errors (checked when operation is started)
Programming devices	Programming Console	C200H-PRO27, CQM1-PRO01, or CQM1H-PRO01
	SSS	IBM PC/AT or compatible (SYSMAC Support Software version 1.1 or higher)
	CPT	Windows
	CX-P	Windows

Note: Connecting Cable (CPM2C-CN111, CS1W-CN114, or CS1W-CN118) is required to connect to the communications peripheral /RS-232C port.

■ Communications Specifications

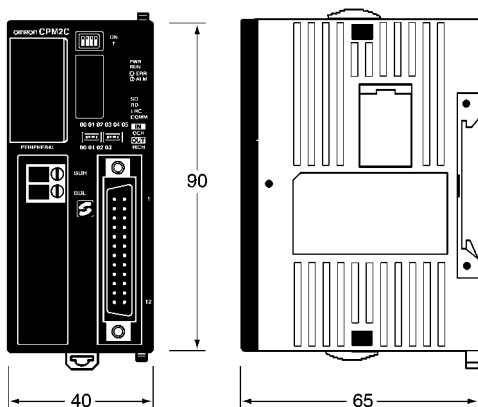
Communications method		Special CompoBus/S protocol
Coding method		Manchester coding
Connection form		Combination of multi-drop method and T-branch connections (see note 1)
Baud rate		High-speed Communications Mode: 750 kbps Long-distance Communications Mode: 93.75 kbps (see note 2)
Communications cycle time	High-speed Communications Mode	0.5 ms (with 8 input and 8 output slaves connected)
		0.8 ms (with 16 input and 16 output slaves connected)
	Long-distance Communications Mode	4.0 ms (with 8 input and 8 output slaves connected)
		6.0 ms (with 16 input and 16 output slaves connected)
Communications media		2-conductor cable (VCTF 0.75 x 2), 4-conductor cable (VCTF 0.75 x 4), or Special Flat Cable
Communications distance	High-speed Communications Mode	2-conductor VCTF cable: Main line length: 100 m max. Branch line length: 3 m max. Total branch line length: 50 m max. Special Flat Cable, 4-conductor VCTF cable: Main line length: 30 m max. Branch line length: 3 m max. Total branch line length: 30 m max. (When Special Flat Cable is used to connect fewer than 16 Slaves, the main line can be up to 100 m long and the total branch line length can be up to 50 m.)
	Long-distance Communications Mode	2-conductor VCTF cable: Main line length: 500 m max. Branch line length: 6 m max. Total branch line length: 120 m max. Special Flat Cable, 4-conductor VCTF cable: Variable branch wiring (total cable length 200 m max.) (There are no limits on the branching format or main, branch, or total line lengths. The terminator must be connected to the point in the system farthest from the master.)
Maximum number of nodes		32
Error control checks		Manchester code check, frame length check, and parity check

- Note:** 1. A terminator must be connected to the point in the system farthest from the Master.
2. The baud rate is switched using DM settings (default setting is 750 kbps).

Dimensions

Note: All units are in millimeters unless otherwise indicated.

CPM2C-S100C
CPM2C-S110C



Note: Refer to *CPM2C-S Programmable Controller Operation Manual (W377)* for detailed specifications.

Programmable Slaves

CPM2C-S1□0C-DRT

Multi-functional Slave for Distributed Blocks

An entire installation consisting of sensors and actuators is handled as a DeviceNet slave.

Powerfully supports the device distribution and production of standard units while standardizing programs and decreasing the load on the master. Conventional distributed I/O control networks do not allow I/O checks or operation checks until all devices on the networks are assembled and connected. Programmable Slaves, however, allow I/O and operation checks on any distributed unit independently.

■ **DeviceNet Slave Functions**

Supports multi-word I/O Links and message communications, making it possible for the master to control the data of all the slaves on the network. Data that does not need immediate transmission, such as log data, can be transmitted in blocks using message communications.

■ **CompoBus/S Master Functions**

Connects to remote signal lights, pushbutton switches, terminal blocks, and pneumatic valves from other companies over VCTF or easy-to-branch flat cable.

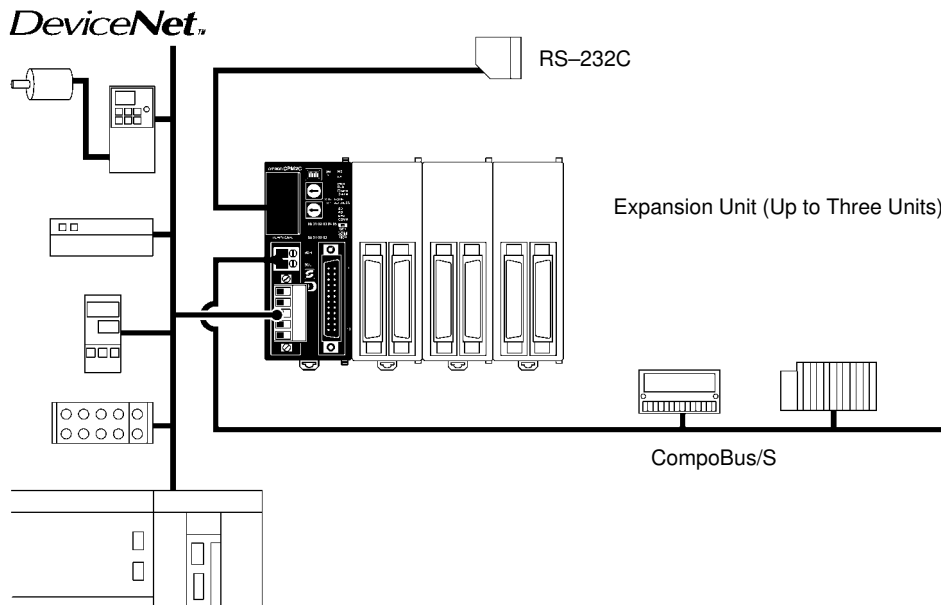


■ **RS-232C Communications**

Connects to the BCRs and PTs to process data, alleviating the load on the master.

■ **Expansion Unit (Up to Three Units)**

A single node is used to control distributed blocks and decrease the size of the communications block in multi-point operation, thus making the cost reduction of the system possible.



Ordering Information

Unit	Inputs	Outputs	Clock	Model
10 points (6 inputs/4 outputs) Connector model	6 points at 24 VDC	4 transistor sinking outputs	Yes	CPM2C-S100C-DRT
		4 transistor sourcing outputs	Yes	CPM2C-S110C-DRT

Specifications

■ General Specifications

Item		Specification
Control method		Stored program method
I/O control method		Cyclic scan method (Immediate refreshing can be performed with IORF(97).)
Programming language		Ladder diagram
Instruction length		1 step per instruction 1 to 5 words per instruction
Instructions	Basic instructions	14
	Special instructions	105 instructions, 185 variations
Execution time	Basic instructions	0.64 μ s (LD instruction)
	Special instructions	7.8 μ s (MOV instruction)
Program capacity		4,096 words
Max. I/O capacity		CPU Unit only: 10 points Expansion I/O Unit: 96 points (32-point Expansion I/O Unit x 3) (Up to 3 Expansion Units can be connected.) CompoBus/S: 256 points (362 points in total)
Input bits		IR 00000 to IR 00915 (Bits not used for input bits can be used for work bits.)
Output bits		IR 01000 to IR 01915 (Bits not used for output bits can be used for work bits.)
CompoBus/S input bits		128 bits: IR 02000 to IR 02715 (words IR 020 to IR 027)
CompoBus/S output bits		128 bits: IR 03000 to IR 03715 (words IR 030 to IR 037)
Work bits		672 bits: IR 02800 to IR 02915 (words IR 028 to IR 029) IR 03800 to IR 03915 (words IR 038 to IR 039) IR 04000 to IR 04915 (words IR 040 to IR 049) IR 20000 to IR 22715 (words IR 200 to IR 227)
Special bits (SR area)		440 bits: SR 22800 to SR 25507 (words SR 228 to SR 255)
Temporary bits (TR area)		8 bits: (TR 0 to TR 7)
Holding bits (HR area)		320 bits: HR 0000 to HR 1915 (words HR 00 to HR 19)
Auxiliary bits (AR area)		384 bits: AR 0000 to AR 2315 (words AR 00 to AR 23) These include CompoBus/S slave status flags (words AR 04 to AR 07).
Link bits (LR area)		256 points: LR 0000 to LR 1515 (words LR 00 to LR 15)
Timers/Counters		256 timers/counters: TIM/CNT 000 to TIM/CNT 255 1-ms timers: TMHH (--) 10-ms timers: TIMH (15) 100-ms timers TIM 1-s/10-s timers: TIML (--) Decrementing counters: CNT Reversible counters: CNTR (12)
Data memory	Read/Write	2,048 words (DM 0000 to DM 2047) The Error Log is contained in DM 2000 to DM 2021.
	Read only	456 words (DM 6144 to DM 6599)
	PC Setup	56 words (DM 6600 to DM 6655)
DeviceNet slave functions		DeviceNet Remote I/O Link No. of I/O Link points: 1,024 max. Explicit message communications Any PC data area can be accessed from the master.
Basic interrupt functions	Interrupt inputs	2 interrupts (Used for both counter mode interrupts inputs and quick-response inputs.)
	Scheduled interrupts	1 interrupt

Item		Specification
High-speed counter functions	High-speed counters	1 counter (single phase at 20 kHz or 2 phases at 5 kHz)
	Counter interrupts	1 interrupt (set value comparison or set-value range comparison)
	Interrupt inputs (counter mode)	2 interrupts (Used for both external interrupts inputs and quick-response inputs.)
	Count-up interrupts	2 interrupts (Used for both external interrupts inputs and quick-response inputs.)
Quick-response inputs		2 points (Used for both external interrupts inputs and counter mode interrupt inputs.) Min. input pulse width: 50 μs max.
Pulse output		2 points with no acceleration/deceleration, 10 Hz to 10 kHz each, and no direction control: 1 point with trapezoid acceleration/deceleration, 10 Hz and 10 kHz with no direction control: or 2 points with variable duty-ratio outputs
Synchronized pulse control		1 point
Input time constant (ON response time = OFF response time)		Can be set for CPU Unit inputs and Expansion Unit inputs only (1, 2, 3, 5, 10, 20, 40, or 80 ms)
Clock		Equipped with clock (built-in RTC)
Communications functions		Peripheral port: Supports Host Link, peripheral bus, no-protocol communications, and Programming Console connections. RS-232C port: Supports Host Link, no-protocol communications, 1-to-1 Link, or 1-to-1 NT Link connections.
Power failure backup function		Data in HR, AR, Counter (CNT), and Data Memory (DM) areas is held.
Memory backup		Non-volatile (flash) memory: Program, read-only DM area, and PC Setup Memory backup (lithium battery: 2 years lifetime): DM area, HR area, AR area, and counter values
Self-diagnostic functions		CPU error (watchdog timer), memory errors, communications errors, setting errors, battery errors, and expansion I/O bus errors
Program check		No END instruction, programming errors (checked when operation is started)
Programming devices	Programming Console	C200H-PRO27, CQM1-PRO01, or CQM1H-PRO01
	SSS	IBM PC/AT or compatible (SYSMAC Support Software version 1.1 or higher)
	CPT	Windows
	CX-P	Windows

Note: Connecting Cable (CPM2C-CN111, CS1W-CN114, or CS1W-CN118) is required to connect to the communications peripheral /RS-232C port.

■ Communications Specifications

DeviceNet

Communications protocol		DeviceNet
Connection form		Combination of multi-drop and T-branch connections (see note 1)
Baud rate		500, 250, or 125 kbps (switchable)
Communications media		Special 5-conductor cable (2 signal lines, 2 power supply lines, and 1 shield line)
Communications distance	Baud rate	500 kbps: Max. network length (see note 2): 100 m max. (see note 3) Main line length: 6 m max. Total branch line length: 39 m max. 250 kbps: Max. network length (see note 2): 250 m max. (see note 3) Main line length: 6 m max. Total branch line length: 78 m max. 125 kbps: Max. network length (see note 2): 500 m max. (see note 3) Main line length: 6 m max. Total branch line length: 156 m max.
Max. number of connecting nodes		64 (63 slaves and 1 master)
Error control checks		CRC error, node address duplication check, and scan list verification

Note: 1. A terminator must be connected to the point in the system farthest from the Master.
2. The maximum network length is the distance from the master to the farthest node.

3. When Thin Cable is used for the main line, the main line must be 100 m or less in length.

CompoBus/S

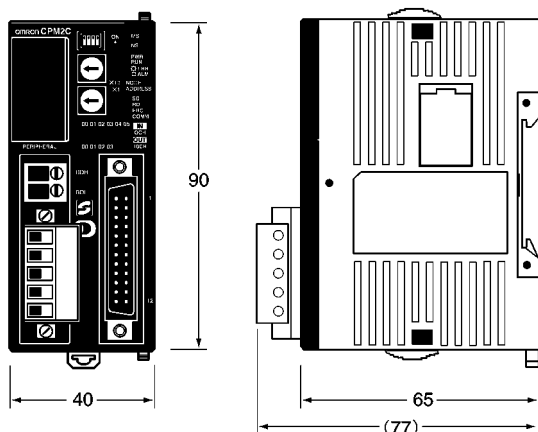
Communications method		Special CompoBus/S protocol
Coding method		Manchester coding
Connection form		Combination of multi-drop method and T-branch connections (see note 1)
Baud rate		High-speed Communications Mode: 750 kbps Long-distance Communications Mode: 93.75 kbps (see note 2)
Communications cycle time	High-speed Communications Mode	0.5 ms (with 8 input and 8 output slaves connected)
		0.8 ms (with 16 input and 16 output slaves connected)
	Long-distance Communications Mode	4.0 ms (with 8 input and 8 output slaves connected)
		6.0 ms (with 16 input and 16 output slaves connected)
Communications media		2-conductor cable (VCTF 0.75 x 2), 4-conductor cable (VCTF 0.75 x 4), or Special Flat Cable
Communications distance	High-speed Communications Mode	2-conductor VCTF cable: Main line length: 100 m max. Branch line length: 3 m max. Total branch line length: 50 m max. Special Flat Cable, 4-conductor VCTF cable: Main line length: 30 m max. Branch line length: 3 m max. Total branch line length: 30 m max. (When Special Flat Cable is used to connect fewer than 16 Slaves, the main line can be up to 100 m long and the total branch line length can be up to 50 m.)
	Long-distance Communications Mode	2-conductor VCTF cable: Main line length: 500 m max. Branch line length: 6 m max. Total branch line length: 120 m max. Special Flat Cable, 4-conductor VCTF cable: Variable branch wiring (total cable length 200 m max.) (There are no limits on the branching format or main, branch, or total line lengths. The terminator must be connected to the point in the system farthest from the master.)
Maximum number of nodes		32
Error control checks		Manchester code check, frame length check, and parity check

- Note:** 1. A terminator must be connected to the point in the system farthest from the Master.
2. The baud rate is switched using DM settings (default setting is 750 kbps).

Dimensions

Note: All units are in millimeters unless otherwise indicated.

CPM2C-S100C-DRT
CPM2C-S110C-DRT



Note: Refer to *CPM2C-S Programmable Controller Operation Manual (W377)* for detailed specifications.

Subminiature, Stand-alone Model with CompoBus/S Master and SYSMAC Controller Functions

- Maximum number of Remote I/O points per Master: 256
- Maximum number of Slaves per Master: 32
- Communications cycle time: 0.5 ms max. (at baud rate 750 kbps).
- Communications distance: Extended to 500 m max. (at baud rate 93.75 kbps).
- Additional instructions (PID, SCL, NEG, ZCP) ensure analog compatibility.
- RS-232C port incorporated (SRM1-C02-V2).



Ordering Information

Specifications		Model
Built-in stand-alone controller functions	Without RS-232C	SRM1-C01-V2
	With RS-232C	SRM1-C02-V2

Specifications

■ Master Specifications

Number of I/O points	256 points (128 inputs/128 outputs) 128 points (64 inputs/64 outputs) Selectable by DM setting. The default setting is 256 points.
Max. number of Slaves per Master	256 points: 32 128 points: 16
I/O words	Input words: 000 to 007 Output words: 010 to 017
Programming language	Ladder diagram
Types of instruction	14 basic and 81 special instructions (125 instructions in total)
Execution time	LD instruction: 0.97 μ s MOV instruction: 9.1 μ s
Program capacity	4,096 words
Data memory	2,022 + 512 (read-only) words
Timers/Counters	128 timers/counters
Work bits	640 bits
Memory backup	Flash memory (without battery): User programs Lithium battery: Data memory etc. (Battery life: 10 years min. at an ambient temperature of 25°C.)
Peripheral port	1 point
RS-232C port	1 point (SRM1-C02 only) Host Link, NT Link, 1:1 Link, or no protocol
Programming tool	Programming Consoles: CQM1-PRO01-E, C200H-PRO27-E CX-Programmer (Supported for versions 2 or later.) WS02-CXP1-E SYSMAC Support Software (MS-DOS version): C500-ZL3AT1-E

■ Communications Specifications

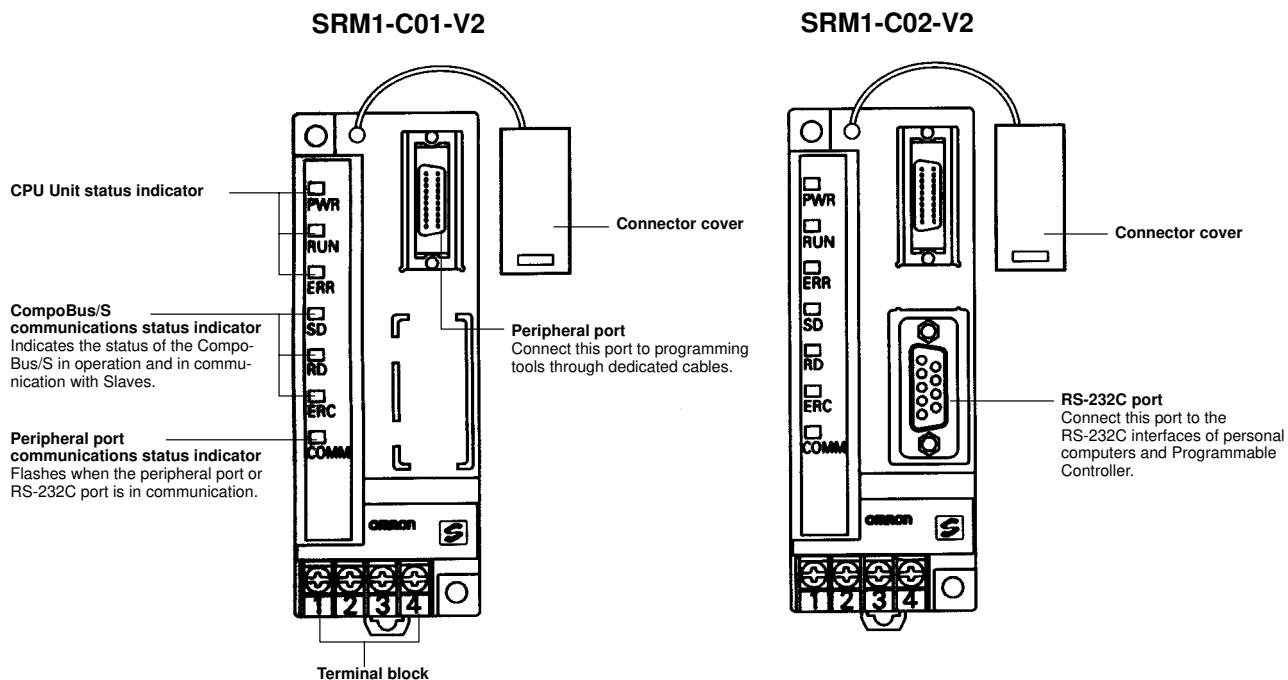
Communications method		CompoBus/S protocol
Coding method		Manchester coding method
Connection method		Multi-drop method and T-branch method (see note 1)
Communications baud rate		750,000 bps/93,750 bps (see note 2)
Communications cycle time	High-speed communications mode	0.5 ms with 8 Slaves for inputs and 8 Slaves for outputs 0.8 ms with 16 Slaves for inputs and 16 Slaves for outputs
	Long-distance communications mode	4.0 ms with 8 Slaves for inputs and 8 Slaves for outputs 6.0 ms with 16 Slaves for inputs and 16 Slaves for outputs
Communications cable		2-conductor VCTF cable (0.75 x 2), 4-conductor VCTF cable (0.75 x 4) Dedicated flat cable
Communications distance	High-speed communications mode	2-conductor VCTF cable: Main line length: 100 m max. Branch line length: 3 m max. Total branch line length: 50 m max. Flat cable, 4-conductor VCTF cable: Main line length: 30 m max. Branch line length: 3 m max. Total branch line length: 30 m max. (When flat cable is used to connect fewer than 16 Slaves, the main line can be up to 100 m long and the total branch line length can be up to 50 m.)
	Long-distance communications mode	2-conductor VCTF cable: Main line length: 500 m max. Branch line length: 6 m max. Total branch line length: 120 m max. Flat cable, 4-conductor VCTF cable: Variable branch wiring (total cable length 200 m max.) (There are no limits on the branching format or main, branch, or total line lengths. The terminator must be connected to the point in the system farthest from the master.)
Max. number of connecting nodes		32
Error control checks		Manchester code check, frame length check, and parity check

- Note:** 1. A terminator must be connected to the point in the system farthest from the Master.
2. The communications baud rate is switched using DM settings (default setting is 750,000 bps).

■ General Specifications

Supply voltage	24 VDC
Allowable supply voltage	20.4 to 26.4 VDC
Power consumption	3.5 W max.
Inrush current	12.0 A max.
Noise immunity	Conforms to IEC61000-4-4, 2 kV (power lines)
Vibration resistance	10 to 57 Hz, 0.075-mm amplitude, 57 to 150 Hz, acceleration: 9.8 m/s ² in X, Y, and Z directions for 80 minutes each (Time coefficient; 8 minutes × coefficient factor 10 = total time 80 minutes)
Shock resistance	147 m/s ² three times each in X, Y, and Z directions
Ambient temperature	Operating: 0°C to 55°C Storage: -20°C to 75°C
Humidity	10% to 90% (with no condensation)
Atmosphere	Must be free from corrosive gas.
Terminal screw size	M3
Power interrupt time	DC type: 2 ms min.
Weight	150 g max.

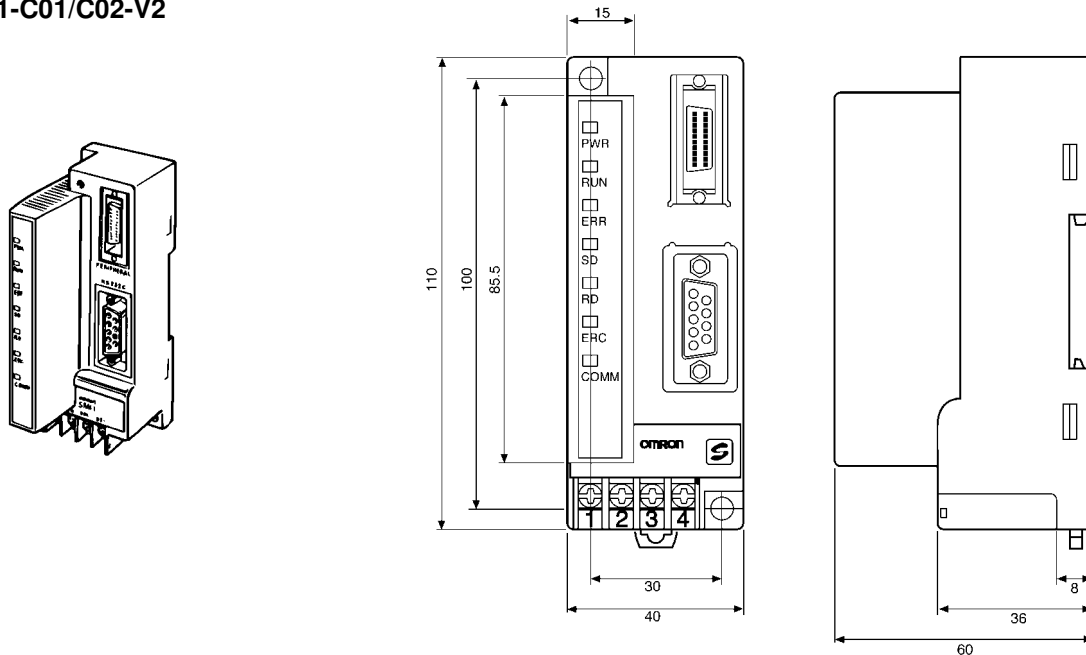
Nomenclature



Dimensions

Note: All units are in millimeters unless otherwise indicated.

SRM1-C01/C02-V2



The above dimensions apply to the SRM1-C02-V2. The SRM1-C01-V2 has no RS-232C port.

Precautions

For details on safety precautions, refer to the *CompoBus/S Master Control Units Operation Manual (W318)*.

Master Unit

C200HW-SRM21-V1

Master Unit for CS1, C200HX, C200HG, C200HE, and C200HS

- A maximum of 256 I/O points available.
- Connects to a maximum of 32 Slaves.
- Communications cycle time: 0.5 ms max. (at baud rate 750 kbps).
- Communications distance: Extended to 500 m max. (at baud rate 93.75 kbps).
- Connection to Analog Terminals now supported.



Ordering Information

PC	Max. number of I/O points	Model
C200HX (-Z), C200HG (-Z), C200HE (-Z), C200HS, CS1	256 points (128 inputs/128 outputs)	C200HW-SRM21-V1

Specifications

■ Communications Specifications

Communications method		CompoBus/S protocol
Coding method		Manchester coding method
Connection method		Multi-drop method and T-branch method (see note 1)
Communications baud rate		750,000 bps, 93,750 bps (see note 2)
Communications cycle time	High-speed communications mode	0.5 ms with 8 Slaves for inputs and 8 Slaves for outputs 0.8 ms with 16 Slaves for inputs and 16 Slaves for outputs
	Long-distance communications mode	4.0 ms with 8 Slaves for inputs and 8 Slaves for outputs 6.0 ms with 16 Slaves for inputs and 16 Slaves for outputs
Communications cable		2-conductor VCTF cable (0.75 x 2), 4-conductor VCTF cable (0.75 x 4) Special Flat Cable
Communications distance	High-speed communications mode	2-conductor VCTF cable: Main line length: 100 m max. Branch line length: 3 m max. Total branch line length: 50 m max. Special Flat Cable, 4-conductor VCTF cable: Main line length: 30 m max. Branch line length: 3 m max. Total branch line length: 30 m max. (When Special Flat Cable is used to connect fewer than 16 Slaves, the main line can be up to 100 m long and the total branch line length can be up to 50 m.)
	Long-distance communications mode	2-conductor VCTF cable: Main line length: 500 m max. Branch line length: 6 m max. Total branch line length: 120 m max. Special Flat Cable, 4-conductor VCTF cable: Variable branch wiring (total cable length 200 m max.) (There are no limits on the branching format or main, branch, or total line lengths. The terminator must be connected to the point in the system farthest from the master.)
Max. number of connecting nodes		32
Error control checks		Manchester code check, frame length check, and parity check

- Note:**
1. A terminator must be connected to the point in the system farthest from the Master.
 2. The communications baud rate is switched with the DIP switch.

■ Unit Specifications

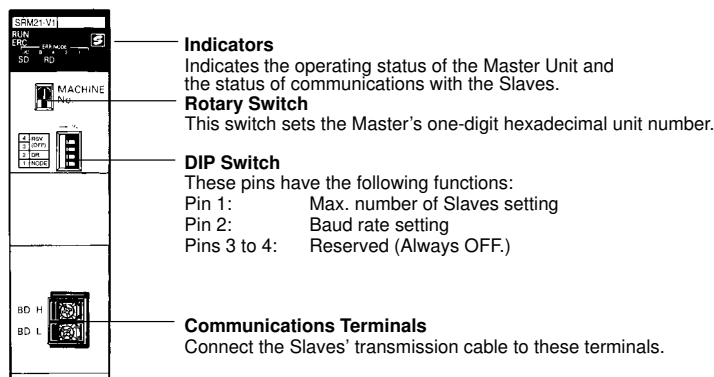
Current consumption		150 mA max. at 5 VDC
Number of I/O points		256 points (128 inputs/128 outputs), 128 points (64 inputs/64 outputs) (switchable)
Number of occupied words		256 points: 20 words (8 input words/8 output words, 4 status data) 128 points: 10 words (4 input words/4 output words, 2 status data)
PLC		CS1, C200HX (-ZE), C200HG (-ZE), C200HE (-ZE), C200HS
Number of Master Units mountable	C200HE	128 points: 10, 256 points: 5
	C200HG-CPU33/43	128 points: 10, 256 points: 5
	C200HG-CPU53/63	128 points: 16, 256 points: 8
	C200HX-CPU34/44	128 points: 10, 256 points: 5
	C200HX-CPU54/64	128 points: 16, 256 points: 8
	C200HS	128 points: 10, 256 points: 5
	CS1	128 points: 16, 256 points: 8
Number of points per node number		8 points
Max. number of Slaves per Master		32
Status data		Communications Error Flag and Active Slave Node (see note)
Weight		200 g max.
Approved standards		UL 508 (E95399), CSA C22.2 No. 142 (LR51460)

Note: These flags use the AR area.

■ Ratings

The ratings of the Unit are the same as those of the CS1, C200HX, C200HG, C200HE, and C200HS.

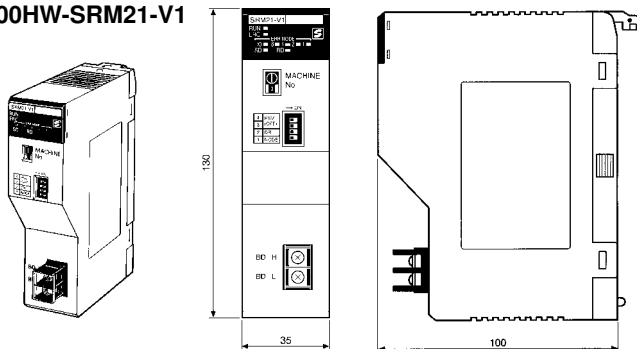
Nomenclature



Dimensions

Note: All units are in millimeters unless otherwise indicated.

C200HW-SRM21-V1



Note: Refer to the *C200HX, C200HG, C200HE, C200HS, or CS1 Operation Manual* for details on the dimensions when the Master Unit is installed in the PC's Backplane.

Precautions

Refer to the *CompoBus/S Operation Manual (W266-E1)* before using the Unit.

Master Unit for CQM1/CQM1H

- A maximum of 128 I/O points available (Possible to set 32, 64, or 128 I/O points).
- Connects to a maximum of 16/32 Slaves.
- Communications cycle time: 0.5 ms max. (at baud rate 750 kbps).
- Communications distance: Extended to 500 m max. (at baud rate 93.75 kbps).
- Connection to Analog Terminals now supported.



Ordering Information

PLC	Max. number of I/O points	Model
CQM1-series PLC	128 points (64 inputs/64 outputs)	CQM1-SRM21-V1

Specifications

■ Communications Specifications

Communications method		CompoBus/S protocol
Coding method		Manchester coding method
Connection method		Multi-drop method and T-branch method (see note 1)
Communications baud rate		750,000 bps, 93,750 bps (see note 2)
Communications cycle time	High-speed communications mode	0.5 ms with 8 Slaves for inputs and 8 Slaves for outputs
		0.8 ms with 16 Slaves for inputs and 16 Slaves for outputs
	Long-distance communications mode	4.0 ms with 8 Slaves for inputs and 8 Slaves for outputs
		6.0 ms with 16 Slaves for inputs and 16 Slaves for outputs
Communications cable		2-conductor VCTF cable (0.75 x 2), 4-conductor VCTF cable (0.75 x 4) Special Flat Cable
Communications distance	High-speed communications mode	2-conductor VCTF cable: Main line length: 100 m max. Branch line length: 3 m max. Total branch line length: 50 m max.
		Special Flat Cable, 4-conductor VCTF cable: Main line length: 30 m max. Branch line length: 3 m max. Total branch line length: 30 m max. (When Special Flat Cable is used to connect fewer than 16 Slaves, the main line can be up to 100 m long and the total branch line length can be up to 50 m.)
Communications distance	Long-distance communications mode	2-conductor VCTF cable: Main line length: 500 m max. Branch line length: 6 m max. Total branch line length: 120 m max.
		Special Flat Cable, 4-conductor VCTF cable: Variable branch wiring (total cable length 200 m max.) (There are no limits on the branching format or main, branch, or total line lengths. The terminator must be connected to the point in the system farthest from the master.)
Max. number of connecting nodes		32
Error control checks		Manchester code check, frame length check, and parity check

- Note:**
1. A terminator must be connected to the point in the system farthest from the Master.
 2. The communications baud rate is switched with the DIP switch.

■ Unit Specifications

Current consumption	180 mA max. at 5 VDC
Number of I/O points	128 points (64 inputs/64 outputs), 64 points (32 inputs/32 outputs), 32 points (16 inputs/16 outputs) (switchable)
Number of occupied words	128 points: 4 input words/4 output words 64 points: 2 input words/2 output words 32 points: 1 input word/1 output word
PC	128 points: CQM1-CPU41-EV1/CPU42-EV1/CPU43-EV1/CPU44-EV1 64 points: CQM1-CPU11-E/CPU21-E/CPU41-EV1/CPU42-EV1/CPU43-EV1/CPU44-EV1 32 points: CQM1-CPU11-E/CPU21-E/CPU41-EV1/CPU42-EV1/CPU43-EV1/CPU44-EV1
Number of points per node number	4/8 points (switchable)
Max. number of Slaves per Master	32 (4 points per node number)
Status data	Alarm terminal output
Weight	200 g max.
Approved standards	UL 508 (E95399), CSA C22.2 No. 142 (LR51460)

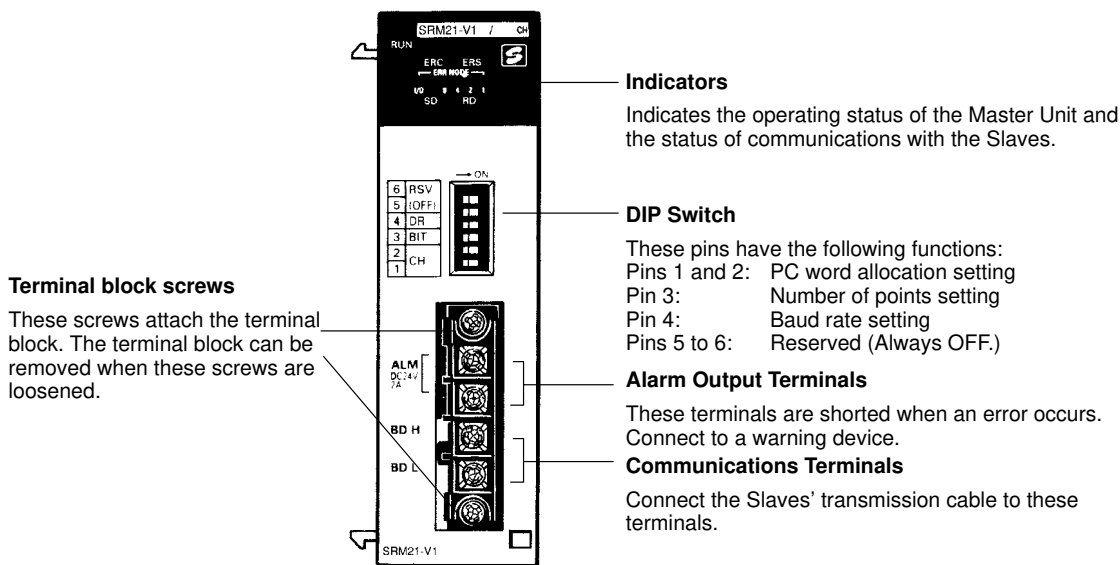
■ Alarm Output Specifications

Maximum switching capacity	2 A at 24 VDC
Minimum switching capacity	10 mA at 5 VDC
Relay	G6D-1A
Minimum ON time	100 ms
Circuit configuration	

■ Ratings

The ratings of the Unit are the same as those for the CQM1.

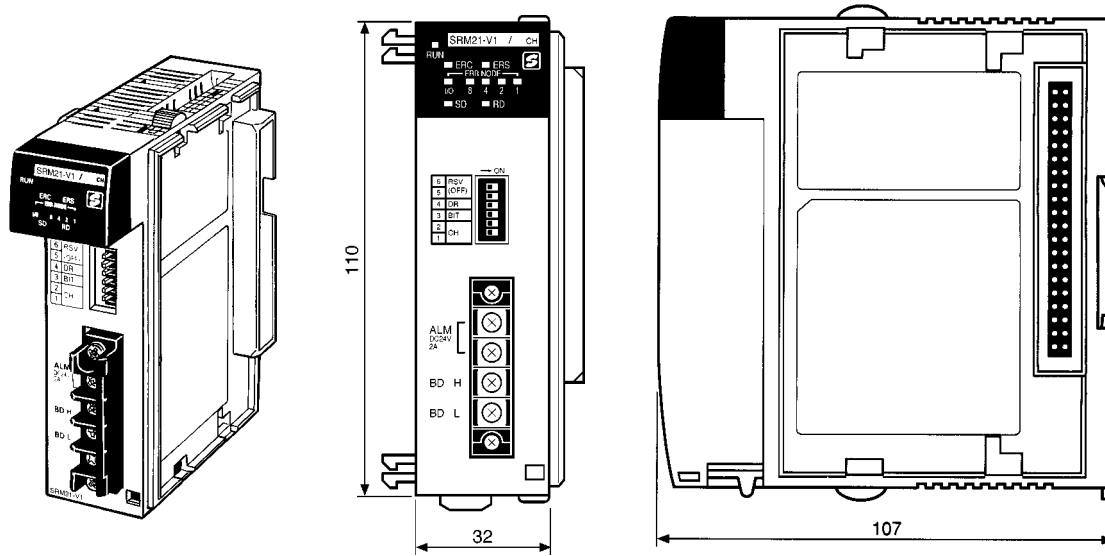
Nomenclature



Dimensions

Note: All units are in millimeters unless otherwise indicated.

CQM1-SRM21-V1



Note: Refer to the *CQM1 Operation Manual* for details on the dimensions when the Master Unit is installed in the PC's Backplane.

Precautions

Refer to the *CompoBus/S Operation Manual (W266-E1)* before using the Unit.

Intelligent Computer Board that Integrates SYSMAC C200HX/HG/HE and CompoBus/S Master Functions Equipped with Backup Power Supply System

- Can be mounted to an ISA bus, the standard bus for IBM compatible computers, thus contributing to the downsizing of installations using computers.
- Communications between the SYSMAC Board and the computer are performed via an ISA bus, enabling a communications speed much higher than with RS-232C communications.
- Incorporates CompoBus/S communications functions. Simply connect a CompoBus/S Slave to enable distributed control of I/O in remote locations.
- A power supply sub-board is also available. This makes it possible to provide power externally, and allows control to be continued even when the computer power supply is interrupted.

- Data settings at CompoBus/S Slaves are reflected automatically.
- Enables communications at a maximum distance of 500 m (at a baud rate of 93.75 kbps).
- Conforms to EC Directives.



Ordering Information

PLC	Max. number of I/O points	Model
C200HG-CPU43	256 points (128 inputs/128 outputs)	C200PC-ISA03-SRM
C200HX-CPU64		C200PC-ISA13-SRM