

CompoBus/S Master Module

C200HW-SRM21-V1

Connect Cost-Effective, High-Speed Remote I/O to an Omron CS1, C200H Alpha or C200HS Controller

- Maximum of 256 I/O points available
- Connects to a maximum of 32 slaves
- Fast communications of 0.5 ms max. at standard distance of 100 m (750 kbps)
- Extended distance communications to 500 m (93.75 kbps)
- Supports analog input and output slave blocks
- Flat, 4-conductor cable or Belden #9409 twisted-pair cable connects master to slave blocks



Ordering Information

■ COMPOBUS/S MASTER MODULE

Compatible Omron controller	Max. number of I/O points	Part number
CS1, C200HX, C200HG, C200HE, C200HS	256 points (128 inputs/128 outputs)	C200HW-SRM21-V1

■ ACCESSORIES

Item	Specification	Part number
Communications cable	Flat cable, 100 m length, 4 conductor (0.75 mm ² each)	SCA1-4F10
Branch connector	Sold in packs of 10	SCN1-TH4
Extension connector	Sold in packs of 10	SCN1-TH4E
Connector terminator	Sold in packs of 10	SCN1-TH4T
Terminal block terminator	Sold in packs of 10	SRS1-T

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 cable: Belden #9409 or VCTF (JIS L3306) Dedicated flat cable
Communications distance	High-speed communications mode	Belden #9409 or VCTF cable: Main line length: 100 m(328.1 ft) max. Branch line length: 3 m (9.84 ft) max. Total branch line length: 50 m (164.0 ft) max. Flat cable: Main line length: 30 m (98.4 ft) max. Branch line length: 3 m (9.84 ft) max. Total branch line length: 30 m (98.4 ft) max. (When flat cable is used to connect fewer than 16 Slaves, the main line can be up to 100 m (328.1 ft) long and the total branch line length can be up to 50 m (164.0 ft).)
	Long-distance communications mode	Belden #9409 or VCTF cable: Main line length: 500 m (1640.5 ft) max. Branch line length: 6 m (19.69 ft) max. Total branch line length: 120 m (393.7 ft) max.
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.

■ MODULE SPECIFICATIONS

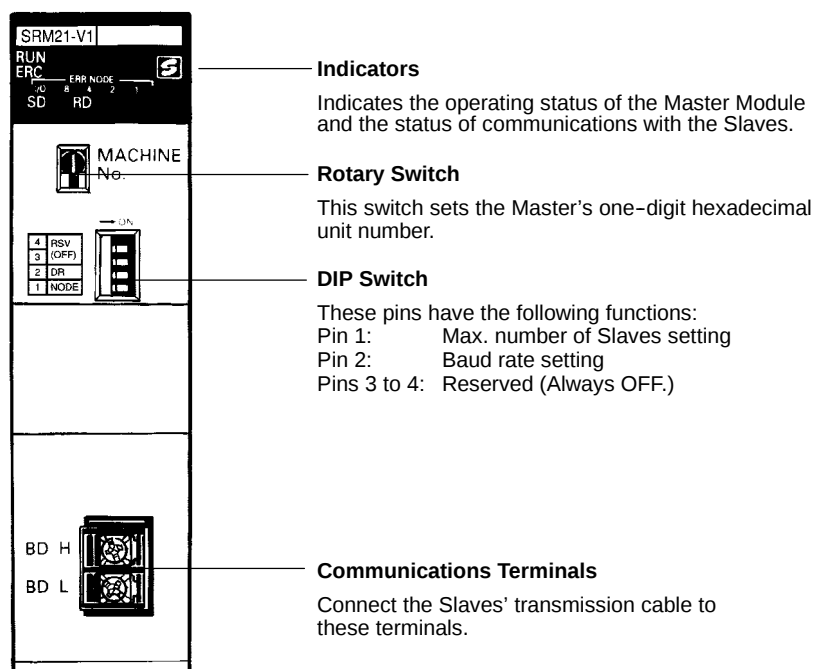
Current consumption	150 mA max. at 5 VDC
Number of I/O points	256 points (128 inputs/128 outputs), 128 points (64 inputs/64 outputs) (switchable)
Number of occupied words	256 points: 20 words (8 input words/8 output words, 4 status data) 128 points: 10 words (4 input words/4 output words, 2 status data)
Omron PLC model	CS1, C200HX (-ZE), C200HG (-ZE), C200HE (-ZE), C200HS
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 Auxiliary Relay (AR) area.

■ RATINGS

The ratings of the CompoBus/S Master Module are the same as those of the CS1, C200HX, C200HG, C200HE, and C200HS.

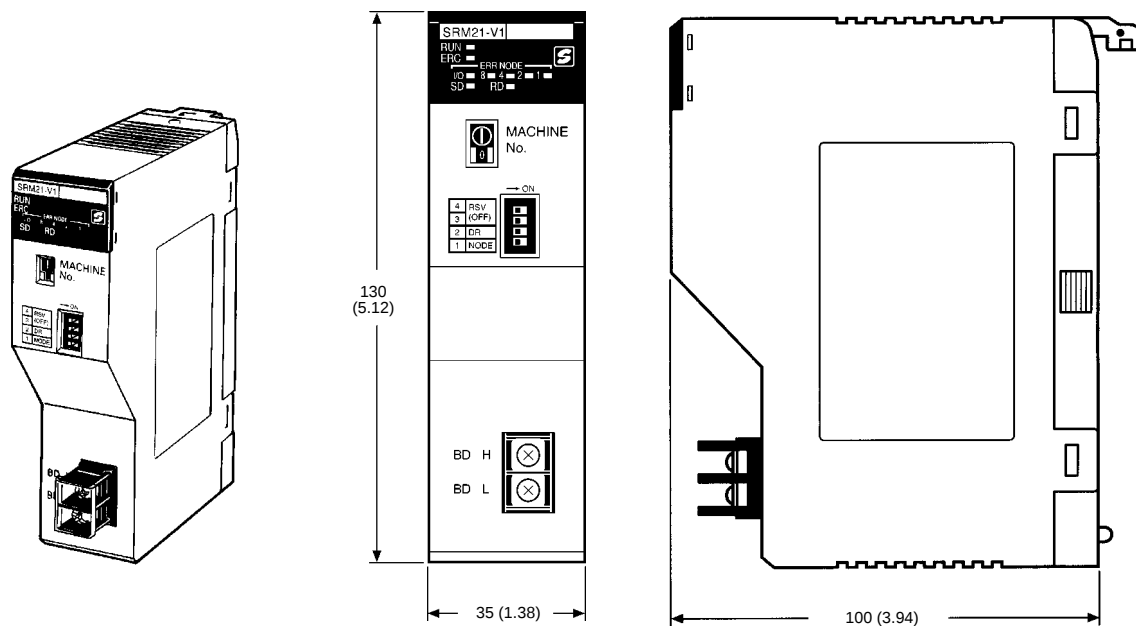
Nomenclature



Dimensions

Unit: mm (inch)

■ C200HW-SRM21-V1



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

Precautions

Refer to the *CompoBus/S Operation Manual (W266)* before using the Master Module.

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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