

# 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 <sup>2</sup> 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 m	nethod	CompoBus/S protocol	
Coding method	ng method Manchester coding method		
Connection method	t	Multi-drop method and T-branch method (See Note 1)	
Communications b	aud rate	750,000 bps, 93,750 bps (See Note 2)	
cycle time common Lo	High-speed communications	0.5 ms with 8 Slaves for inputs and 8 Slaves for outputs	
	mode	0.8 ms with 16 Slaves for inputs and 16 Slaves for outputs	
	Long-distance communications	4.0 ms with 8 Slaves for inputs and 8 Slaves for outputs	
	mode	6.0 ms with 16 Slaves for inputs and 16 Slaves for outputs	
Communications c	able	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 3		32	
Error control check	(S	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**

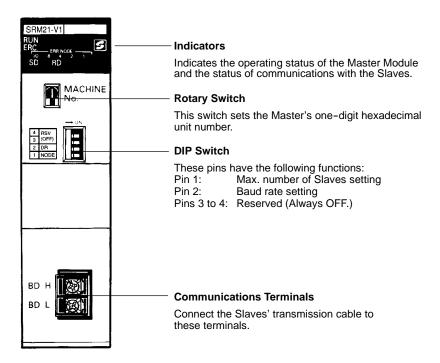
Current consumption	150 mA max. at 5 VDC
Number of I/O points	256 points (128 inputs/128 outputs), 128 points (64 inputs/64 outputs) (switchable)
Number of occupied words	256 points: 20 words (8 input words/8 output words, 4 status data) 128 points: 10 words (4 input words/4 output words, 2 status data)
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 -

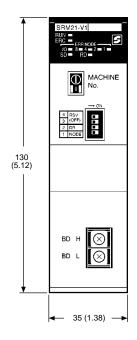


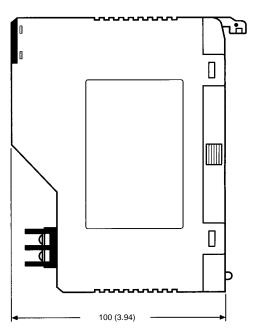
## **Dimensions**

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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Specifications subject to change without notice.

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