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## 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

|  |  |   |
|--|--|---|
| <b>Communications method</b>           |  | CompoBus/S protocol   |
| <b>Coding method</b>                   |  | Manchester coding method  |
| <b>Connection method</b>               |  | Multi-drop method and T-branch method (See Note 1)  |
| <b>Communications baud rate</b>        |  | 750,000 bps, 93,750 bps (See Note 2)  |
| <b>Communications cycle time</b>       | <b>High-speed communications mode</b>    | 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  |
|  | <b>Long-distance communications mode</b> | 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  |
| <b>Communications cable</b>            |  | 2-conductor cable: Belden #9409 or VCTF (JIS L3306)<br>Dedicated flat cable   |
| <b>Communications distance</b>         | <b>High-speed communications mode</b>    | Belden #9409 or VCTF cable:<br>Main line length: 100 m (328.1 ft) max.<br>Branch line length: 3 m (9.84 ft) max.<br>Total branch line length: 50 m (164.0 ft) max.<br><br>Flat cable:<br>Main line length: 30 m (98.4 ft) max.<br>Branch line length: 3 m (9.84 ft) max.<br>Total branch line length: 30 m (98.4 ft) max.<br>(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).) |
|  | <b>Long-distance communications mode</b> | Belden #9409 or VCTF cable:<br>Main line length: 500 m (1640.5 ft) max.<br>Branch line length: 6 m (19.69 ft) max.<br>Total branch line length: 120 m (393.7 ft) max.   |
| <b>Max. number of connecting nodes</b> |  | 32  |
| <b>Error control checks</b>            |  | 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

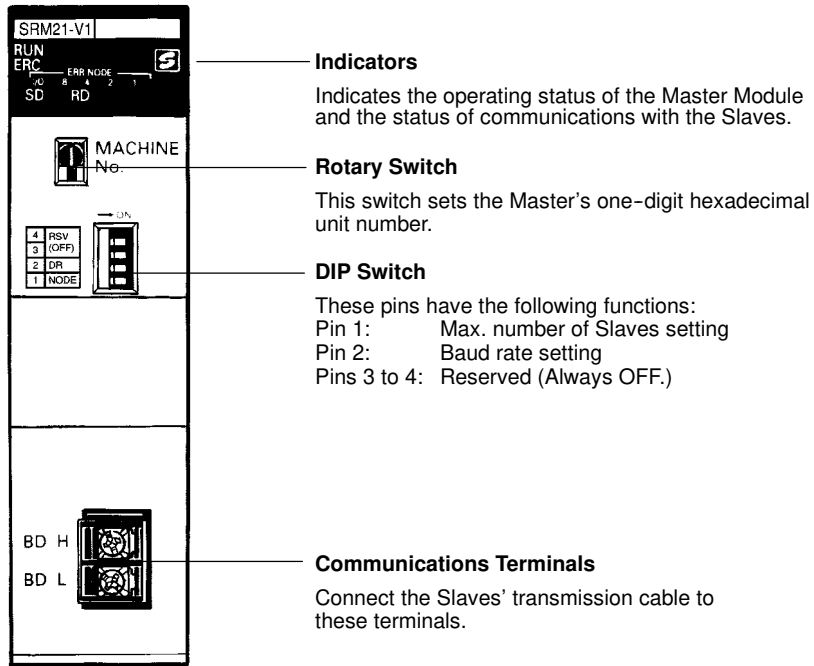
|   |  |
|---|--|
| <b>Current consumption</b>              | 150 mA max. at 5 VDC   |
| <b>Number of I/O points</b>             | 256 points (128 inputs/128 outputs), 128 points (64 inputs/64 outputs) (switchable)  |
| <b>Number of occupied words</b>         | 256 points: 20 words (8 input words/8 output words, 4 status data)<br>128 points: 10 words (4 input words/4 output words, 2 status data) |
| <b>Omron PLC model</b>                  | CS1, C200HX (-ZE), C200HG (-ZE), C200HE (-ZE), C200HS  |
| <b>Number of points per node number</b> | 8 points   |
| <b>Max. number of Slaves per Master</b> | 32   |
| <b>Status data</b>                      | Communications Error Flag and Active Slave Node (See Note)   |
| <b>Weight</b>                           | 200 g max.   |
| <b>Approved standards</b>               | 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.

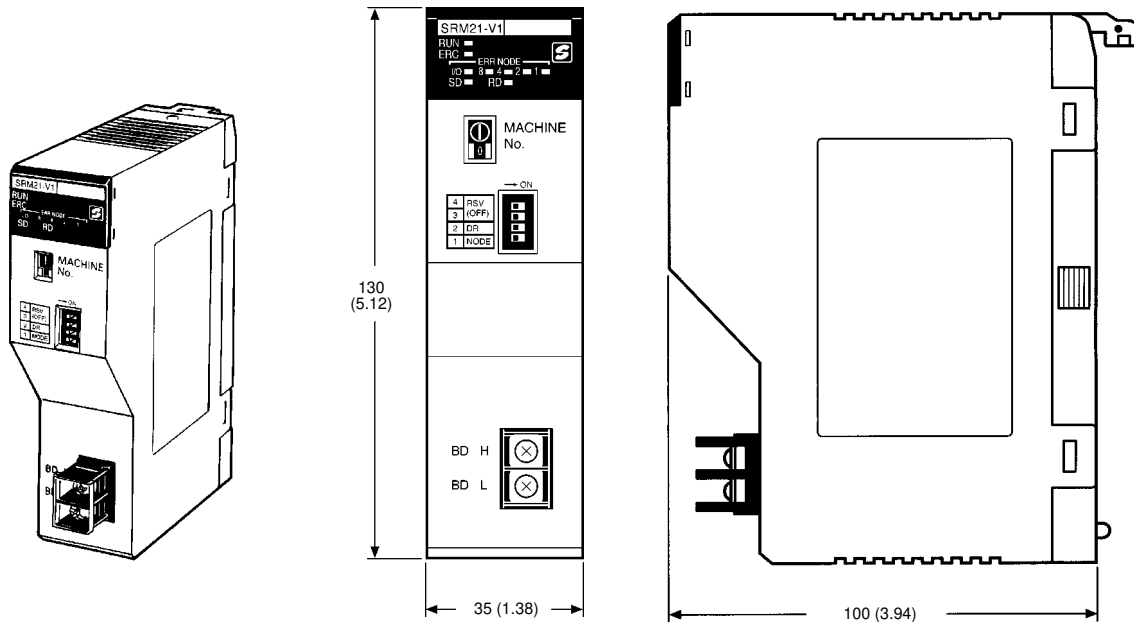
# Nomenclature



# 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

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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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