

I/O Link Unit

C200HW-DRT21

Ideal for Adding Advanced Functionality to Slaves or for Distributed Control

- Intelligent DeviceNet Slave.
- Supports I/O and message communications.
- Maximum I/O area size:
 - 512 input points (32 words)
 - 512 output points (32 words)
- Programming Console or Configurator freely allocates I/O areas.



Ordering Information

| Name | Maximum I/O points | Model |
|---------------------------------------|---|--------------|
| I/O Link Unit (for CS1, C200HX/HG/HE) | 512 inputs, 512 outputs (1,024 points in total) | C200HW-DRT21 |

General Specifications

| | |
|--|---|
| Communications power supply voltage | 11 to 25 VDC |
| Current consumption | Communications power supply: 45 mA max. Internal circuit power supply: 250 mA max. at 5 VDC |
| Maximum I/O points | 512 input points (32 words) 512 output points (32 words) |
| Default area | Write area (linking with Master's write area): 1 word out of 350 IR words Read area (linking with Master's read area): 1 word out of 50 IR words |
| No. of connectable Units | 10 max. (CS1/C200HX/HG/HE CPU Unit handles up to 880 I/O points) 16 max. (CS1/C200HX/HG/HE CPU Unit handles more than 880 I/O points) |
| Weight | 250 g max. |

Dimensions

35 x 130 x 101 mm (W x H x D)

Function Specifications

● Settings (Slave)

| | | |
|-------------------------------|---|---|
| Function | A write area block and a read area block can be freely allocated to any areas or addresses respectively | |
| Allowable setting area | Both read and write areas can be allocated to IR, DM, HR, AR, LR, T/C, and EM areas | |
| First address | A readable or writable area by word (with some restrictions) | |
| Area size | Set in 1-byte increments up to 64 bytes for both read and write areas | |
| Setting method | Configurator | Refer to the <i>DeviceNet Configurator Operation Manual</i> (W328). |
| | Programming Console | 1. Write the set value to I/O setting area allocated to the Special I/O Area. 2. Turn ON the software switch allocated to the Special I/O Area and write the settings. 3. Turn the Programming Console OFF and ON or reset the AR area. |

● Message Communications

| | |
|--------------------------|---|
| Function | Supports messages that can be written to or read from the CS1/C200HX/HG/HE's user I/O areas (i.e., IR, DM, HR, AR, LR, T/C, and EM areas) |
| Master | OMRON's Master Unit or compatible unit from Rockwell |
| Max. message size | Slave (C200HW-DRT21) 200 bytes per READ or WRITE command |

Read and Understand this Catalog

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the product in the customer's application or use of the product.

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The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.
Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

Note: Do not use this document to operate the Unit.

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