CS1W-DRM21-V1

DeviceNet Unit

Multivendor Field Network

- Control of up to 32,000 points (2,000 words) per master.
- Remote I/O communications can be allocated in any area using DM settings.
- 16 DeviceNet Units can be mounted for each CPU Unit (3 max. for fixed allocations).
- When using the Configurator (see note), remote I/O can be allocated in an order independent of node address.

Note: The Configurator is allocating a node-address if connected to DeviceNet using a DeviceNet communication card. It is not doing this if connected through the serial communications interface of the CPU.

 DeviceNet Units can be used as a master and a slave, and this functionality can be used simultaneously.

Note: DeviceNet Units allow DeviceNet networks to be treated exactly like Controller Link, Ethernet, or other networks for message communications or remote programming and monitoring by a CX-Programmer.

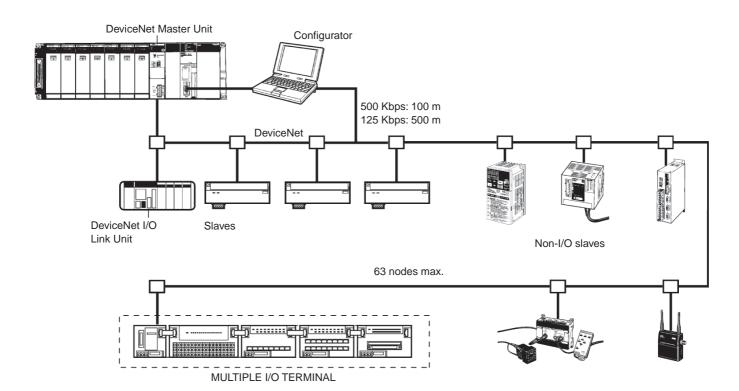


Function

OMRON supports the DeviceNet open field network, a multivendor network for machine/line control and information. The following types of communications are possible.

- Remote I/O communications for automatic data transfers between the CPU Unit and Slaves (with no programming in the CPU Unit).
- Explicit message communications. This can be programmed from the CPU unit (IOWR and CMND instructions) and read from/write to other DeviceNet units.
- 3. With explict message communication FINS commands can be send to other devices that support FINS messaging.

System Configuration



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Ordering Information

Compatible PLCs		Maximum number of I/O points			Model
		Fixed allocations	User-set allocations		
			Using allocated DM Area words	Using Configurator	
CS1 Series	When used as a master	Input: 1,024 points Output: 1,024 points Total: 2,048 points (128 words)	Input: 8,000 points Output: 8,000 points Total: 16,000 points (1,000 words)	Input: 8,000 points x 2 blocks Output: 8,000 points x 2 blocks Total: 32,000 points (2,000 words)	CS1W-DRM21
	When used as a slave	Input: 16 points Output: 16 points Total: 32 points (2 words)	Input: 1,600 points Output: 1,600 points Total: 3,200 points (200 words)	Input: 1,600 points x 1 block Output: 1,600 points x 2 blocks Total: 4,800 points (300 words)	

Specifications

Master/Slave Specifications

Communications power supply voltage				11 to 25 V DC (supplied from the communications connector) (See note 1.)	
Current consumption				Communications:30 mA max. Internal circuit:290 mA max.	
Max. number of connectable slaves	Remote I/O, explicit message service			63 (See note 2.)	
Max. number of I/O points			When used as a master	2,048 points	
			When used as a slave	32 points	
	User-set allocations	Using allocated DM Area words	When used as a master	16,000 points	
			When used as a slave	3,200 points	
		Using Configurator	When used as a master	32,000 points	
			When used as a slave	4,800 points	
Number of allocated words			When used as a master	64 input and 64 output words Software switch/status area: 25 words	
			When used as a slave	1 input word, 1 output word (See note 3.)	
	User-set allocations	Using allocated DM Area words	When used as a master	500 input and 500 output words Software switch/status area: 25 words	
			When used as a slave	100 input and 100 output words (See note 3.) Software switch/status area: 25 words	
		Using Configurator	When used as a master	500 input words x 2 blocks, 500 output words x 2 blocks Software switch/Status area: 25 words	
			When used as a slave	100 input words x 1 blocks, 100 output words x 2 blocks Software switch/Status area: 25 words	
Max. message length				542 bytes (See note 4.)	
Max. number of Units	Fixed allocation	S		3	
mountable to PLC	User-set allocations			16	
Weight			172 g max.		

- Note: 1. Refer to the DeviceNet (CompoBus/D) Operation Manual (W267) for the communications power supply specifications.
 - 2. The DeviceNet unit uses a node of the 64 supported by DeviceNet, leaves connection is possible to 63 slaves.
 - 3. When the DeviceNet is used a slave, "input" and "output" respectively refer to input from the master to the slave and output from the slave to the master.
 - **4.** The maximum message length includes the command code when using the CMND instruction.
 - 5. The CS1W-DRM21 cannot perform message communications with the E5ZE-8 D1 B. Use the E5ZE-8 D1 B-V2, which is a later version. For details on the E5ZE-8 D1 B-V2, refer to the catalog for the product itself (SGTD-017).

DeviceNet Unit

Classification	Types of communications	Specifications	Unit numbers	Model
		Up to 16 Units can be mounted when a Configurator is used.	0 to F (Configurator required to mount 16	CS1W-DRM21
		u u		
	Remote I/O communications slave		Units.)	
	(fixed or user-set allocations)			
	Message communications			
	Remote I/O communications master			C200HW-DRM21-V1
Unit	Remote I/O communications slave			C200HW-DRT21

DeviceNet Configurator

Model number	Specifications
WS02-CFDC1-E	Software only (Windows 95, 98, NT 4.0, 2000, or XP)
3G8E2-DRM21-E-V1	PC card with software (Windows 95 or 98)

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