

CJ-series CPU Bus Units

Type	Name	Specifications	Model	Number of words allocated (CIO 1500 to CIO 1899)	Unit No.	Maximum number of Units *1	Current consumption (A)		Weight
							5 VDC	24 VDC	
CPU Bus Units *1	High-speed Analog Input Unit	4 inputs: 80 μs/2 inputs, 160 μs/4 inputs	CJ1W-ADG41 *2	25 words	0 to F	16 Units *3	0.65	---	150 g max.
	Controller Link Units	Wired data links	CJ1W-CLK23	25 words	0 to F	8 Units	0.35	---	110 g max.
	Serial Communications Units	One RS-232C port and one RS-422A/485 port	CJ1W-SCU41-V1	25 words	0 to F	16 Units *3	0.38 *4	---	110 g max.
		Two RS-232C ports	CJ1W-SCU21-V1				0.28 *4		
		Two RS-422A/485 ports	CJ1W-SCU31-V1				0.38		
		Two RS-232C ports High-speed models	CJ1W-SCU22				0.28 *4		
		Two RS-422A/485 ports High-speed models	CJ1W-SCU32				0.4		
		One RS-232C port and one RS-422A/485 port High-speed models	CJ1W-SCU42				0.36 *4		
	Ethernet Units	100Base-TX, FINS communications, socket service, FTP server, and mail communications	CJ1W-ETN21	25 words	0 to F	4 Units	0.37	---	100 g max.
	EtherNet/IP Unit	Tag data links, FINS communications, CIP message communications, FTP server, etc.	CJ1W-EIP21	25 words	0 to F	*5	0.41	---	94 g max.
	FL-net Unit	100Base-TX cyclic transmissions and message transmissions	CJ1W-FLN22	25 words	0 to F	4 Units	0.37	---	100 g max.
	DeviceNet Unit	DeviceNet remote I/O, 2,048 points; Both Master and Slave functions, Automatic allocation possible without Configurator	CJ1W-DRM21	25 words *6	0 to F	16 Units *3	0.29	---	118 g max. *7
	Position Control Units with EtherCAT interface *8	2 servo axes	CJ1W-NC281	25 words	0 to F	16 Units *3	0.46	---	110 g max.
		4 servo axes	CJ1W-NC481						
		8 servo axes	CJ1W-NC881						
		16 servo axes	CJ1W-NCF81						
		4 servo axes and 64 I/O slaves	CJ1W-NC482						
		8 servo axes and 64 I/O slaves	CJ1W-NC882						
		16 servo axes and 64 I/O slaves	CJ1W-NCF82						
	EtherCAT Slave Unit	EtherCAT REMORT I/O DATA Input: 400 bytes Output: 400 bytes	CJ1W-ECT21	25 words	0 to F	16 Units	0.34	---	97g max.
Position Control Units supporting MECHATROLINK-II communications	MECHATROLINK-II, 16 axes max.	CJ1W-NCF71(-MA)	25 words	0 to F	16 Units *3	0.36	---	95 g max.	
Motion Control Units supporting MECHATROLINK-II communications	MECHATROLINK-II, Real axes: 30 max., Virtual axes: 2 max., Special motion control language	CJ1W-MCH71	25 words	0 to F	3 Units/Rack *9	0.60	---	210 g max.	
SPU Unit (High-speed Storage and Processing Unit)	One CF card type I/II slot (used with OMRON HMC-EF□□□ Memory Card), one Ethernet port	CJ1W-SPU01-V2 *10	Not used.	0 to F	16 Units *3	0.56	---	180 g max.	

Note: Including models whose production are discontinued.

- *1. Some CJ-series CPU Bus Units are allocated words in the CPU Bus Unit Setup Area. The system must be designed so that the number of words allocated in the CPU Bus Unit Setup Area does not exceed its capacity. Refer to 4-6-2 CPU Bus Unit Setup Area in CJ2 CPU Unit Software User's Manual (Cat. No. W473). There may also be limits due to the capacity of the Power Supply Unit that you are using or the maximum number of Units to which memory can be allocated in the CPU Bus Unit Setup Area.
- *2. If interrupts to the CPU Unit are used, mount the Interrupt Input Unit in one of the following slots on the CPU Rack.
 - CJ2H-CPU6□-EIP: Slots 0 to 3
 - CJ2H-CPU6□ or CJ2M-CPU□□: Slots 0 to 4
- *3. Up to 15 Units can be connected for a CJ2H-CPU6□-EIP or CJ2M-CPU3□ CPU Unit.
- *4. Increases by 0.15 A/Unit when an NT-AL001 RS-232C/RS-422A Link Adapter is used. Increases by 0.04 A/Unit when a CJ1W-CIF11 RS-422A Converter is used. Increases by 0.20 A/Unit when an NV3W-M□20L(-V1) Programmable Terminal is used.
- *5. Up to seven Units can be connected for a CJ2H-CPU6□-EIP CPU Unit, up to eight Units can be connected for a CJ2H-CPU6□ CPU Unit, and up to two Units can be connected for a CJ2M CPU Unit.
- *6. Slave I/O are allocated in DeviceNet Area (CIO 3200 to CIO 3799).
- *7. Includes the weight of accessory connectors.
- *8. Only G5-series Servo Drives with Built-in EtherCAT can be connected.
- *9. When mounting to a CJ-series CPU Rack or a CJ-series Expansion Rack, one of these Units uses the space of three Units.
- *10. Use version 2 or higher of the SPU Unit with a CJ2 CPU Unit.