imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CJ-series CJ2H CPU Units

Setting new standards in high-speed machine control

• Small, Fast, Flexible:

Inheriting and improving CJ1 features, the CJ2 CPU Units is the best choice for the machine control with high-speed and high-capacity.



CJ2H-CPU64

Features

- Even more program memory and data memory.
- Superior high-speed control performance: LOAD instructions execute in 16 ns, SINE instructions in 0.59 μs.
- Maximum throughputs with High-speed interrupt function
- Efficient debugging through highly improved Data tracing
- Secure system from memory error brought by Memory Self-restoration Function
- The more advanced motion control by the lower cost: Synchronous Unit Operation
- Increased I/O throughput speed by Immediate refreshing instructions with direct processing.

Ordering Information

International Standards

- The standards are abbreviated as follows: U: UL, U1: UL (Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus,
- UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, and CE: EC Directives.
- Contact your OMRON representative for further details and applicable conditions for these standards.

CJ2H CPU Units

		Specifications				nsumption A)		
Product name	I/O capacity/Mountable Units (Expansion Racks)	Program capacity	Data memory capacity	LD instruction execution time	5 V	24 V	Model	Standards
		400K steps	832K words DM: 32K words EM: 32K words × 25 banks				CJ2H-CPU68	
CJ2H CPU Units	2,560 points / 40 Units (3 Expansion Racks max.)	250K steps	512K words DM: 32K words EM: 32K words × 15 banks				CJ2H-CPU67	1
		150K steps	352K words DM: 32K words EM: 32K words × 10 banks	0.016 μs	0.42 *	-	CJ2H-CPU66	UC1, N, L, CE
		100K steps	160K words DM: 32K words EM: 32K words × 4 banks				CJ2H-CPU65	
		50K steps	160K words DM: 32K words EM: 32K words × 4 banks				CJ2H-CPU64	

* Add 0.15 A per Adapter when using NT-AL001 RS-232C/RS-422A Adapters.

Add 0.04 A per Adapter when using CJ1W-CIF11 RS-422A Adapters.

Accessories

The following accessories come with CPU Unit:

Item	Specification
Battery	CJ1W-BAT01
End Cover	CJ1W-TER01 (necessary to be mounted at the right end of CPU Rack)
End Plate	PFP-M (2 pcs)
Note: A partial part (BS 222C) coppar	tor is not provided. Burghass a connector concretely for sorial part connection

Note: A serial port (RS-232C) connector is not provided. Purchase a connector separately for serial port connection.

Plug : XM3A-0921 (manufactured by OMRON) or equivalent Hood : XM2S-0911-E (manufactured by OMRON) or equivalent

General Specifications

	H	CJ2H-				
	Item	CPU64	CPU65	CPU66	CPU67	CPU68
Enclosure		Mounted in a panel				
Grounding		Less than 100 Ω				
CPU Rack Dimensio	ns	90 mm × 65 mm	imes 49 mm (H $ imes$ D $ imes$ V	V)		
Weight *		190 g or less				
Current Consumptio	on	5 VDC, 0.42 A				
	Ambient Operating Temperature	0 to 55°C				
	Ambient Operating Humidity	10% to 90% (with	n no condensation)			
	Atmosphere	Must be free from	n corrosive gases.			
	Ambient Storage Temperature	-20 to 70°C (exc	luding battery)			
	Altitude	2,000 m or less				
	Pollution Degree	2 or less: Conforms to JIS B3502 and IEC 61131-2.				
Use Environment	Noise Immunity	2 kV on power su	pply line (Conforms	to IEC 61000-4-4	.)	
	Overvoltage Category	Category II: Cont	orms to JIS B3502	and IEC 61131-2.		
	EMC Immunity Level	Zone B				
	Vibration Resistance	Conforms to IEC60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz Acceleration of 9.8 m/s ² for 100 min in X, Y, and Z directions (10 sweeps of 10 min each 100 min total)				
	Shock Resistance	Conforms to IEC60068-2-27. 147 m/s ² , 3 times in X, Y, and Z directions (100 m/s ² for Relay Output Units)				
	Life	5 years at 25°C				
Battery	Weight	Approx. 10 g				
	Model	CJ1W-BAT01				
Applicable Standard	Is	Conforms to cUL	us, NK, LR and EC	Directives.		

* Includes wight of end covers and battery.

Performance Specifications

	Items				CJ2H-				
			CPU64	CPU65	CPU66	CPU67	CPU68		
Jser Memor	ry		50K steps 100K steps 150K steps 250K steps 400K steps 2,560 bits 250K steps 250K steps 250K steps 250K steps 250K steps						
/O Bits	Overband Bra								
	Overhead Pro	cessing Time	Normal Mode: 100 µ						
	Execution Tim		Basic Instructions: 0. Special Instructions:	0.048 μs min.					
Processing Speed		I/O Interrupts and External Interrupts	Return time to cyclic	time : 26 µs or 17 µs task : 11 µs or 8 µs * interrupt function is u	:				
	Interrupts	Scheduled Interrupts	rupts Heturn time to cyclic task : 11 µs or 8 µs * * When High-speed interrupt function is used						
Maximum N	umber of Conne	ectable Units	Total per CPU Rack Total per PLC: 40 Ur	or Expansion Rack: 1 hits max.	0 Units max.;				
/laximum N	umber of Expan	ision Racks	3 max.						
	I/O Area		2,560 bits (160 word	s): Words CIO 0000 to	o CIO 0159				
	Link Area		3,200 bits (200 word	s): Words CIO 1000 to	o CIO 1199				
	Synchronous	Data Refresh Area	1,536 bits (96 words): Words CIO 1200 to	CIO 1295				
	CPU Bus Unit	Area	6,400 bits (400 word	s): Words CIO 1500 to	o CIO 1899				
CIO Area	Special I/O Un	it Area		ds): Words CIO 2000					
	DeviceNet Are			s): Words CIO 3200 to					
	Internal I/O Ar	-	3,200 bits (200 word	s): Words CIO 1300 to ords): Words CIO 380	o CIO 1499				
Work Area			8,192 bits (512 word Cannot be used for e	s): Words W000 to Waternal I/O.	511				
Holding Are	a		Bits in this area main Words H512 to H153	5: These words can b	11 atus when PLC is turne be used only for function ly for internal variable	on blocks. They can b			
Auxiliary Area			 Read-only: 31,744 bits (1,984 words) 7,168 bits (448 words): Words A0 to A447 24,576 bits (1,536 words): Words A10000 to A11535 * Read/write: 16,384 bits (1,024 words) in words A448 to A1471 * * A960 to A1471 and A10000 to A11535 cannot be accessed by CPU Bus Units, Special I/O Units, PTs, and Support Software that do not specifically support the CJ2 CPU Units. 						
Auxiliary Ar	ea		 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 b * A960 to A1471 and 	ords): Words A0 to A4 words): Words A100 its (1,024 words) in w d A10000 to A11535 c	00 to A11535 * vords A448 to A1471 * cannot be accessed by	CPU Bus Units, Spe	cial I/O Units, PTs, a		
			 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 b * A960 to A1471 and 	ords): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically	00 to A11535 * vords A448 to A1471 * cannot be accessed by	CPU Bus Units, Spe	cial I/O Units, PTs, a		
Temporary A			 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 b * A960 to A1471 an Support Software 16 bits: TR0 to TR15 	ords): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically	00 to A11535 * vords A448 to A1471 * cannot be accessed by	r CPU Bus Units, Spe J Units.	cial I/O Units, PTs, a		
Auxiliary Ar Temporary / Timer Area Counter Are	Area		7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 b * A960 to A1471 an Support Software 16 bits: TR0 to TR15 4,096 timer numbers	ords): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically (T0000 to T4095 (se	00 to A11535 * rords A448 to A1471 * cannot be accessed by y support the CJ2 CPU	r CPU Bus Units, Spe J Units.)	ecial I/O Units, PTs, a		
Temporary / Timer Area Counter Are	Area		 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 b A960 to A1471 an Support Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 counter number 32k words * DM Area words for C Bits in the EM Area 	words): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 co that do not specifically (T0000 to T4095 (se ers (C0000 to C4095 (special I/O Units: D2000 a can be addressed eil	00 to A11535 * vords A448 to A1471 * annot be accessed by y support the CJ2 CPU parate from counters)	v CPU Bus Units, Spe J Units.)) vords × 96 Units) rds × 16 Units) These bits cannot be	addressed by CPU B		
Temporary / Timer Area Counter Are DM Area	Area		 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 to * A960 to A1471 an Support Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 counter numbers 32k words * DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Bus Units, Spec Units. *2. EM banks D to 1 that do not spec 	words): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically (T0000 to T4095 (sej ers (C0000 to C4095 (cpecial I/O Units: D200 CPU Bus Units: D200 CPU Bus Units: D300 a can be addressed eit Units, PTs, and Suppor banks max.: E00_00 rea can be addressed ial I/O Units, PTs, and 8 cannot be accessed fically support the CJ:	00 to A11535 * iords A448 to A1471 * iords A448 to A1471 * iords A448 to A1471 * iords A448 to A1471 * iords A1471 * ior	v CPU Bus Units, Spe J Units.)) vords × 96 Units) rds × 16 Units) These bits cannot be of specifically suppor ax. *1 *2 rd. These bits canno at do not specifically s Special I/O Units, PTs	addressed by CPU B t the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU		
Temporary / Timer Area Counter Are DM Area	Area		 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 bits (1,536 Read/w	words): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically (T0000 to T4095 (sej ers (C0000 to C4095 (cpecial I/O Units: D200 CPU Bus Units: D200 CPU Bus Units: D300 a can be addressed eit Units, PTs, and Suppor banks max.: E00_00 rea can be addressed ial I/O Units, PTs, and 8 cannot be accessed fically support the CJ:	00 to A11535 * ords A448 to A1471 * cannot be accessed by y support the CJ2 CPU parate from counters); (separate from timers) 000 to D29599 (100 wo ther by bit or by word.) ort Software that do no 000 to E18_32767 ma I either by bit or by word. I support Software that d by CPU Bus Units, S 2 CPU Units.	v CPU Bus Units, Spe J Units.)) vords × 96 Units) rds × 16 Units) These bits cannot be of specifically suppor ax. *1 *2 rd. These bits canno at do not specifically s Special I/O Units, PTs	addressed by CPU B t the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU		
Temporary / Timer Area Counter Are DM Area	Area	When EM force-S/R function is used #3	 7,168 bits (448 wc 24,576 bits (1,536) Read/write: 16,384 bits (1,536) Read/write: 16,384 bits (1,536) A960 to A1471 and Support Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 timer numbers 4,096 counter numbers 4,096 counter numbers 32k words * DM Area words for S DM Area words for S DM Area words for S DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM A Bus Units, Speci Units. *2. EM banks D to 1 that do not spec words *3. Force-set/reset 1 1.2 or higher) 32K words × 4 	brds): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 cc that do not specifically (T0000 to T4095 (sep ers (C0000 to C4095 (CPU Bus Units: D200 PU Bus Units: D200 PU Bus Units: D200 a can be addressed eit Units, PTs, and Support banks max.: E00_00 rea can be addressed ial I/O Units, PTs, and 8 cannot be accessed fically support the CJ to the EM Area is enait 32K words × 4	00 to A11535 * ords A448 to A1471 * cannot be accessed by y support the CJ2 CPU (separate from counters)) (separate from timers) 000 to D29599 (100 wo to D31599 (100 wo ther by bit or by word. ort Software that do no 000 to E18_32767 ma I either by bit or by wo d Support Software that d by CPU Bus Units, S 2 CPU Units. bled by specifying a s	v CPU Bus Units, Spe J Units.) ords × 96 Units) rds × 16 Units) These bits cannot be bits specifically suppor ax. *1 *2 rd. These bits canno at do not specifically s Special I/O Units, PTs tart bank in parameter 32K words × 15	addressed by CPU B the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU and Support Softwa er settings. (unit version 32K words × 25		
Temporary /	Area		 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 to 4,956 to A1471 an Support Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 counter numbers 4,096 counter numbers 32k words * DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Bu Units, Spec Words, Spec *3. Force-set/reset 1 1.2 or higher) 32K words × 4 banks 	banks max.: E00_00 banks	00 to A11535 * ords A448 to A1471 * cannot be accessed by y support the CJ2 CPU parate from counters); (separate from timers) (separate from timers) 000 to D29599 (100 wo ther by bit or by word.) ort Software that do no 000 to E18_32767 ma l either by bit or by word.) d Support Software that d by CPU Bus Units, S 2 CPU Units. bled by specifying a s 32K words × 10 banks	v CPU Bus Units, Spe J Units. vords × 96 Units) rds × 16 Units) These bits cannot be of specifically suppor ax. *1 *2 rd. These bits cannot at do not specifically s Special I/O Units, PTs tart bank in parameter 32K words × 15 banks	addressed by CPU B t the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU a, and Support Softwa er settings. (unit version 32K words × 25 banks		
Temporary / Timer Area Counter Area DM Area	Area	function is used * 3 When automatic address allocation	 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 to * A960 to A1471 ansupport Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 counter numbers 4,096 counter numbers 32k words * DM Area words for S DM Area words for S DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Units, Special I/O 32k words/bank × 25 *2. EM banks D to 1 that do not spec *3. Force-set/reset 1 1.2 or higher) 32K words × 4 banks Bank 0 to 3 Bank 3 IR0 to IR15 These are special re 	ords): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically (T0000 to T4095 (sep ers (C0000 to C4095 (PU Bus Units: D200 PU Bus Units: D200 PU Bus Units: D3000 a can be addressed eit Units, PTs, and Support banks max.: E00_00 rea can be addressed ial I/O Units, PTs, and 8 cannot be accessed to the EM Area is enal 32K words × 4 banks Bank 0 to 3 Bank 3 gisters for storing PL0	00 to A11535 * ords A448 to A1471 * cannot be accessed by y support the CJ2 CPU (separate from counters)) (separate from timers) 000 to D29599 (100 wo ther by bit or by word. ort Software that do no 000 to E18_32767 ma either by bit or by wo d Support Software that d by CPU Bus Units, S 2 CPU Units. bled by specifying a s 32K words × 10 banks Bank 0 to 9	 CPU Bus Units, Spe J Units. ords × 96 Units) rds × 16 Units) rds × 16 Units) rds e bits cannot be bits specifically suppor ax. *1 *2 rd. These bits cannot the bits cannot be bits cann	addressed by CPU B t the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU and Support Softwa er settings. (unit versi 32K words × 25 banks Bank 0 to 18 Bank 11 to 18		
Temporary / Timer Area Counter Are DM Area EM Area	Area Pa Force-S/R Enabled Banks ters	function is used * 3 When automatic address allocation	 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 to * A960 to A1471 ansupport Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 counter numbers 4,096 counter numbers 32k words * DM Area words for S DM Area words for S DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Units, Special I/O 32k words/bank × 25 *2. EM banks D to 1 that do not spec *3. Force-set/reset 1 1.2 or higher) 32K words × 4 banks Bank 0 to 3 Bank 3 IR0 to IR15 These are special re 	ords): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically (T0000 to T4095 (sep ers (C0000 to C4095 (PU Bus Units: D200 PU Bus Units: D200 PU Bus Units: D3000 a can be addressed eit Units, PTs, and Support banks max.: E00_00 rea can be addressed ial I/O Units, PTs, and 8 cannot be accessed to the EM Area is enal 32K words × 4 banks Bank 0 to 3 Bank 3 gisters for storing PL0	00 to A11535 * ords A448 to A1471 * cannot be accessed by parate from counters); (separate from counters); (separate from timers) 000 to D29599 (100 w 00 to D31599 (100 w 0 to D31599	 CPU Bus Units, Spe J Units. ords × 96 Units) rds × 16 Units) rds × 16 Units) rds e bits cannot be bits specifically suppor ax. *1 *2 rd. These bits cannot the bits cannot be bits cann	addressed by CPU B t the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU a, and Support Softwa er settings. (unit version 32K words × 25 banks Bank 0 to 18 Bank 11 to 18		
Temporary / Timer Area Counter Are DM Area	Area Area Force-S/R Enabled Banks ters Flag Area	function is used * 3 When automatic address allocation	 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 to * A960 to A1471 an Support Software 16 bits: TR0 to TR15 4,096 timer numbers 4,096 counter numbers 4,096 counter numbers 32k words * DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Units, Special I/O 32k words/bank × 25 *3. Force-set/reset 1 1.2 or higher) 32K words × 4 banks Bank 0 to 3 Bank 3 IR0 to IR15 These are special re be set so that they a 	ards): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically (T0000 to T4095 (set ers (C0000 to C4095 (Decial I/O Units: D200 PU Bus Units: D3000 a can be addressed eit Units, PTs, and Support b banks max.: E00_00 is banks max.: E00_00 a can be addressed ial I/O Units, PTs, and 8 cannot be accessed fically support the CJ to the EM Area is enail 32K words × 4 banks Bank 0 to 3 Bank 3 gisters for storing PLC re unique in each task	00 to A11535 * ords A448 to A1471 * cannot be accessed by parate from counters); (separate from counters); (separate from timers) 000 to D29599 (100 w 00 to D31599 (100 w 0 to D31599	CPU Bus Units, Spe J Units. Second State	addressed by CPU B t the CJ2 CPU Units. t be addressed by CF support the CJ2 CPU and Support Softwa er settings. (unit versi 32K words × 25 banks Bank 0 to 18 Bank 11 to 18		
Temporary / Timer Area Counter Are DM Area EM Area EM Area	Area Area Force-S/R Enabled Banks ters Flag Area rd	function is used * 3 When automatic address allocation	 7,168 bits (448 wc 24,576 bits (1,536 Read/write: 16,384 to 4,956 to A1471 an Support Software 16 bits: TR0 to TR15 4,096 counter numbers 4,096 counter numbers 4,096 counter numbers 4,096 counter numbers 32k words * DM Area words for C * Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM Area Units, Special I/O 32k words/bank × 25 *1. Bits in the EM A Bus Units, Spec Units. *2. EM banks D to 1 that do not spec *3. Force-set/reset 1 1.2 or higher) 32K words × 4 banks Bank 0 to 3 Bank 3 IR0 to IR15 These are special re be set so that they a 128 flags 128 MB, 256 MB, or PROGRAM Mode: F MONITOR Mode: F 	ords): Words A0 to A4 words): Words A1000 its (1,024 words) in w d A10000 to A11535 c that do not specifically in (T0000 to T4095 (sep ers (C0000 to C4095 (CPU Bus Units: D2000 PU Bus Units: D2000 a can be addressed eit Units, PTs, and Support is banks max.: E00_00 is mode. is	00 to A11535 * ords A448 to A1471 * cannot be accessed by parate from counters); (separate from counters); (separate from timers) 000 to D29599 (100 w 00 to D31599 (100 w 0 to D31599	CPU Bus Units, Spe J Units. J ords × 96 Units) rds × 16 Units) These bits cannot be ot specifically suppor ax. *1 *2 rd. These bits cannot at do not specifically s gpecial I/O Units, PTs tart bank in parameter 32K words × 15 banks Bank 0 to E Bank 7 to E for indirect addressim- nared by all tasks.) n be executed prior to s, such as online edit this mode.	addressed by CPU E the CJ2 CPU Units. t be addressed by Cf support the CJ2 CPU a, and Support Softwa er settings. (unit versi 32K words × 25 banks Bank 0 to 18 Bank 11 to 18 g. (Index Registers c		

		Items		CPU64	CPU65	CJ2H- CPU66	CPU67	CPU68	
Programmir	Programming Languages			Ladder Logic (LD), Sequential Functior Structured Text (ST Instruction Lists (IL)	n Charts (SFC), Γ), and		0.001	0.000	
Function	Maxim	um num	ber of definitions	2,048	,				
Blocks	-		ber of instances	2,048					
		f Tasks		Cyclic tasks	ver OFF interrupt tasks	, scheduled interrupt ta	sks, I/O interrupt tasks	and external interrupt	
Tasks	Numbe	er of Tas	sks	Cyclic tasks: 128 Interrupt tasks: 256 (Interrupt tasks can be defined as cyclic tasks to create extra cyclic tasks. Therefore, the total number of cyclic tasks is actually 384 max.)					
	Туре о	f Symbo	ols		Can be used only withir Can be used in all task		LC.		
Symbols (Variables)	Data Type of Symbols			 UDINT BCD (two ULINT BCD (fou) REAL (two-word LREAL (four-wor CHANNEL (word NUMBER (const WORD (one-word) DWORD (two-word) LWORD (four-word) LWORD (four-word) STRING (1 to 25 TIMER (timer) * COUNTER (courd) User defined dat *1. Cannot be used o 	d unsigned binary) d unsigned binary) igned binary) signed binary) signed binary) word unsigned BCD) * p-word unsigned BCD) floating-point) r-word unsigned BCD) floating-point) d floating-point) 1) * 1 ant or number) * 1 d hexadecimal) ord hexadecimal) ord hexadecimal) 55 ASCII characters) 2	*1 *1 s) *3	s used		
	Maxim	um Size	of Symbol	32k words					
	Array S	Symbols	s (Array Variables)	One-dimensional a	rravs				
		-	ay Elements	32,000 elements m					
		-		8,000 words		16,000 words	32.000 words		
	Memor	y Capa	city	(The EM Area can be specified from the CX-Programmer to use up to 32K words multiplied by the number of banks supported by the CPU Unit model.)					
	Numbe	er of Sau	mplings	,	data =16, two-word d	ata = 8, four-word data	u = 4		
Data	Sampli	ng Cyc	le	1 to 2,550 ms (Unit	: 1 ms)				
Tracing	Trigger Delay \	r Condit /alue	tions	ON/OFF of specified bit Data comparison of specified word Data size: 1 word, 2 words, 4 words Comparison Method: Equals (=), Greater Than (>), Greater Than or Equals (≥), Less Than (<), Less Than or					
File Memory	1			Memory Card (128, 256, or 512 Mbytes) (Use the Memory Cards provided by OMRON.) EM file memory (Part of the EM Area can be converted for use as file memory.)					
Source/ Comment Memory			ces, comments, ces, symbol tables	Capacity: 3.5 Mbyte	es				
	Logica for Cor		Logical Ports	8 ports (Used for S	END, RECV, CMND, F	MCR, TXDU, and RXI	DU instructions.)		
	nicatio		Extended Logical Ports	64 ports (Used for SEND2, RECV2, CMND2, and PMCR2 instructions.)					
	CIP Co nicatio	ns	Class 3 Connection Type UCMM	Number of connect		municata at the same t	lime: 22		
	Specifi	cation	(Non-connection Type)	Maximum number of clients that can communicate at the same time: 32 Maximum number of servers that can communicate at the same time: 40					
Communi- cations	Periph	eral (US	B) Port	USB 2.0-compliant	B-type connector				
cations		Baud F	Rate	12 Mbps max.					
		Transr	nission Distance	5 m max.					
	Serial I	Port		Interface: Conforms	s to EIA RS-232C.				
		Comm	unications Method	Half-duplex					
		Synch	ronization Method	Start-stop					
		-		· ·					
		Baud F	Rate	0.3, 0.6, 1.2, 2.4, 4.	.8, 9.6, 19.2, 38.4, 57.6	6, or 115.2 (kbps)			

Function Specifications

	F	unctions		Description		
	Minimum Cycle Time			A minimum cycle time can be set. (0.2 to 32,000 ms; Unit: 0.1 ms) The minimum cycle time setting can be changed in MONITOR mode.		
Cycle Time Management	Cycle Time Mo	nitoring		The cycle time is monitored. (0.01 to 40,000 ms; Unit: 0.01 ms)		
	Background Pr	rocessing		Instructions with long execution times can be executed over multiple cycles to prevent fluctuations in the cycle time.		
	Basic I/O		Cyclic Refreshing	Cyclic refreshing of Basic I/O Units, Special I/O Units, and CPU Bus Units		
	Units, Special	I/O Refreshing	Immediate Refreshing	I/O refreshing by immediate refreshing instructions		
	I/O Units, and CPU Bus	noncoming	Refreshing by IORF	I/O refreshing by IORF instruction		
	Units	Unit Recogn	ition at Startup	The number of units recognized when the power is turned ON is displayed.		
		Input Respo	nse Time Setting	The input response times can be set for Basic I/O Units. The response time can be increased to reduce the effects of chattering and noise at input contacts. The response time can be decreased to enable detecting shorter input pulses.		
	Basic I/O Units	Load OFF F	unction	All of the outputs on Basic I/O Units can be turned OFF when an error occurs in RUN or MONITOR mode.		
Unit (I/O)		Basic I/O Unit Status Monitoring		Alarm information can be read from Basic I/O Units and the number of Units recognized can be read.		
Management		Unit Restart	Bits to Restart Units	A Special I/O Unit or CPU Bus Unit can be restarted.		
	Special I/O Units and CPU Bus Units	Synchronous Unit Operation		The start of processing for all the specified Units can be synchronized at a fixed interval. Maximum number of Units: 10 Units (Only Units that support Synchronous Operation Mode can be used.) Synchronous operation cycle: 0.5 to 10ms (default: 2 ms) Maximum number of words for synchronous data refreshing: 96 words (total of all Units)		
		Automatic I/O Allocation at Startup		I/O words can be automatically allocated to the Basic I/O Units that are connected in the PLC to start operation automatically without registering Units into I/O tables.		
	Configuration Management	I/O Table Creation		The current unit configuration can be registered in I/O tables to prevent it from being changed, to reserve words, and to set words.		
		Rack/Slot First Word Settings		The first words allocated to a Units on the Racks can be set.		
	Holding I/O Memory when Changing Operating Modes		hanging Operating Modes	The status of I/O memory can be held when the operating mode is changed or pow- turned ON. The forced-set/reset status can be held when the operating mode is char or power is turned ON.		
	File Memory			Files (such as program files, data files, and symbol table files) can be stored in Memory Card, EM File Memory, or Comment Memory.		
Memory Management	Built-in Flash M	lemory		The user program and Parameter Area can be backed up to an internal flash memory when they are transferred to the CPU Unit.		
	EM File Function	on		Parts of the EM Area can be treated as file memory.		
	Storing Commo	ents		I/O comments can be stored as symbol table files in a Memory Card, EM file memory, or comment memory.		
	EM Configurati	ion		EM Area can be set as trace memory or EM file memory.		
	Automatic File	Transfer at S	tartup	A program file and parameter files can be read from a Memory Card when the power is turned ON.		
Memory Cards	Program Repla	cement durin	g PLC Operation	The whole user program can be read from a Memory Card to CPU Unit during operation.		
Salus	Function for Re Card	eading and W	riting Data from a Memory	Data in I/O memory in the CPU Unit can be written to a Memory Card in CSV/TXT format. Data in CSV/TXT format in the Memory Card can be read to I/O memory in the CPU Unit.		

	Funct	tion	Description		
Communicatio	ons		-		
	Peripheral (USB) Port Peripheral Bus Serial Port		Bus for communications with various kinds of Support Software running on a personal computer. High-speed communications are supported.		
	Serial Port		-		
	Host Link (SYSWAY) Communications No-protocol Communications NT Link Communications		Host Link commands or FINS commands placed between Host Link headers and terminators can be sent from a host computer or PT to read/write I/O memory, read/control the operating mode, and perform other operations for PLC.		
			I/O instructions for communications ports (such as TXD/RXD instructions) can be used for data transfer with peripheral devices such as bar code readers and printers.		
			I/O memory in the PLC can be allocated and directly linked to various PT functions, including status control areas, status notification areas, touch switches, lamps, memory tables, and other objects.		
	Peripheral Bus		Bus for communications with various kinds of Support Software running on a personal computer. High-speed communications are supported.		
	Serial Gateway	,	This gateway enables receiving and automatically converting FINS to the CompoWay/F.		
	Scheduled Interrup	pts	Tasks can be executed at a specified interval (minimum of 0.2 ms or 0.1 ms *, Unit: 0.1 ms). * When High-speed interrupt function is used.		
	Power OFF Interru	pts	A task can be executed when CPU Unit's power turns OFF.		
Interrupt	I/O Interrupt Tasks	3	A task can be executed when an input signal is input to an Interrupt Input Unit.		
	External Interrupt	Tasks	A task can be executed when interrupts are requested from a Special I/O Unit or a CPU Bus Unit.		
	High-speed Interru	upt Function	Improves performance for executing interrupt tasks with certain restrictions. (Unit version 1.1 or later.)		
	Clock Function		Clock data is stored in memory. Accuracy (Accuracy depends on the temperature.) Ambient temperature of 55° C: -3.5 to $+0.5$ min error per month Ambient temperature of 25° C: -1.5 to $+1.5$ min error per month Ambient temperature of 0° C: -3 to $+1$ min error per month		
	Operation Start Tir	me Storage	The time when operating mode was last changed to RUN mode or MONITOR mode is stored.		
Clock	Operation Stop Time Storage		The last time a fatal error occurred or the last time the operating mode was changed to PROGRAM mode is stored.		
	Startup Time Storage		The time when the power was turned ON is stored.		
	Power Interruption Time Storage		The time when the power is turned OFF is stored.		
	Total Power ON Ti	me Calculation	The total time that the PLC has been ON is stored in increments of 10 hours.		
	Power ON Clock D	ata Storage	A history of the times when the power was turned ON is stored.		
	User Program Ove	erwritten Time Storage	The time that the user program was last overwritten is stored.		
	Parameter Date St	orage	The time when the Parameter Area was overwritten is stored.		
Power	Memory Protection		Holding Area data, DM Area data, EM Area data, Counter Completion Flags, and counter present values are held even when power is turned OFF. CIO Area, Work Area, some Auxiliary Area data, and Timer Completion Flags, timer present values, index registers, and data registers can be protected by turning ON the IOM Hold Bit in the Auxiliary Area, and by also setting the IOM Hold Bit to "Hold" in the PLC Setup.		
Supply Management	Power OFF Detect	ion Time Setting	The detection time for power interruptions can be set. AC power supply: 10 to 25 ms (variable) DC power supply: 2 to 5 ms (CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025)		
	Power OFF Detect	ion Delay Time	The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022.)		
	Number of Power	Interruptions Counter	The number of times power has been interrupted is counted.		
Function Bloc			Standard programming can be encapsulated as function blocks.		
	Languages in Fund	ction Block Definitions	Ladder programming or structured text		
	Online Editing		The program can be changed during operation (in MONITOR or PROGRAM mode), except for block programming areas.		
	Force-Set/Reset		Specified bits can be set or reset. Force-set/reset to the EM Area is enabled by specifying a start bank in parameter setting. (unit version 1.2 or higher)		
	Differentiate Monit	toring	ON/OFF changes in specified bits can be monitored.		
Debugging	Data Tracing		 The specified I/O memory data can be stored in the trace memory in the CPU Unit. The triggers can be set. The trace data can be uploaded during data tracing using CX-Programmer, which enables continuously logging the data by constantly uploading the trace data (trace data uploading during tracing). Data tracing can be automatically started when operation is started (i.e., when the operating mode is changed from PROGRAM mode to MONITOR or RUN mode). 		
	Storing Location of	of Error when an Error Occurs	The location and task number where execution stopped for a program error is recorded.		
	Program Check		The programs can be checked for items such as no END instruction and FALS/FAL errors at startup.		

	Funct	ion	Description
			A function is provided to store predefined error codes in CPU Unit, error information, and time
	Error Log		at which the error occurred.
	CPU Error Detection	on	CPU Unit WDT errors are detected. Errors can be generated for user-specified conditions: Non-fatal errors (FAL) and fatal errors
	User-defined Failu	re Diagnosis	(FALS).
			Program section time diagnosis and program section logic diagnosis are supported (FPD instruction).
	Load OFF Function	n	This function turns OFF all outputs from Output Units when an error occurs.
	RUN Output		The RUN output from the CJ1W-PA205R turns ON while CPU Unit is in RUN mode or MONITOR mode.
	Basic I/O Load Sho	ort-circuit Detection	This function provides alarm information from Basic I/O Units that have load short-circuit protection.
	Failure Point Detec	ction	The time and logic of an instruction block can be analyzes using the FPD instruction.
	CPU Standby Dete	ction	This function indicates when the CPU Unit is on standby because all Special I/O Units and CPU Bus Units have not been recognized at the startup in RUN or MONITOR mode.
		System FAL Error Detection (User-defined non-fatal error)	This function generates a non-fatal (FAL) error when the user-defined conditions are met in program.
		Duplicate Refreshing Error Detection	This function detects an error when an immediate refreshing Instruction in an interrupt task is competing with I/O refreshing of a cyclic task.
		Basic I/O Unit Error Detection	This function detects the errors in Basic I/O Units.
		Backup Memory Error	This function detects errors in the memory backup of the user programs and parameter area
		Detection PLC Setup Error Detection	(backup memory). This function detects setting errors in the PLC Setup.
	Non-fatal Error	CPU Bus Unit Error Detection	This function detects an error when there is an error in data exchange between the CPU Unit
	Detection		and a CPU Bus Unit.
		Special I/O Unit Error Detection	This function detects an error when there is an error in data exchange between the CPU Unit and a Special I/O Unit.
		Battery Error Detection	This function detects an error when a battery is not connected to the CPU Unit or when the battery voltage drops.
		CPU Bus Unit Setting Error Detection	This function detects an error when the model of a CPU Bus Unit in the registered I/O tables does not agree with the model that is actually mounted in the PLC.
		Special I/O Unit Setting Error Detection	This function detects an error when the model of a Special I/O Unit in the registered I/O tables does not agree with the model of Unit that is actually mounted.
Self-		Memory Error Detection	This function detects errors that occur in memory of the CPU Unit.
diagnosis and Restoration		I/O Bus Error Detection	This function detects when an error occurs in data transfers between the Units mounted in Rack slots and the CPU Unit and detects when the End Cover is not connected to the CPU Rack or an Expansion Rack.
		Unit/Rack Number Duplication Error	This function detects an error when the same unit number is set for two or more Units, the same word is allocated to two or more Basic I/O Units, or the same rack number is set for two or more Racks.
		Too Many I/O Points Error Detection	This function detects an error when the total number of I/O points set in the I/O tables or the number of Units per Rack exceeds the specified range.
		I/O Setting Error Detection	This function detects an error when the number of Units in the registered I/O tables does not agree with the actual number of Units that is mounted, or an Interrupt Unit has been connected in the wrong position, i.e., not in slot 0 to 4.
		Program Error Detection	This function detects errors in programs.
		Instruction Processing Error Detection	This function detects an error when the given data value is invalid when executing an instruction, or execution of instruction between tasks was attempted.
	Fatal Error Detection	Indirect DM/EM BCD Error Detection	This function detects an error when an indirect DM/EM address in BCD mode is not BCD.
		Illegal Area Access Error Detection	This function detects an error when an attempt is made to access an illegal area with an instruction operand.
		No END Error Detection	This function detects an error when there is no END instruction at the end of the program.
		Task Error Detection	This function detects an error when there are no tasks that can be executed in a cycle, there is no program for a task, or the execution condition for an interrupt task was met but there is no interrupt task with the specified number.
		Differentiation Overflow Error Detection	This function detects an error when too many differentiated instructions are entered or deleted during online editing (131,072 times or more).
		Invalid Instruction Error Detection	This function detects an error when an attempt is made to execute an instruction that is not defined in the system.
		User Program Area Overflow Error Detection	This function detects an error when instruction data is stored after the last address in user program area.
		Cycle Time Exceeded Error Detection	This function monitors the cycle time (10 to 40,000 ms) and stops the operation when the set value is exceeded.
	Fatal Free	System FALS Error Detection (User-defined Fatal Error)	This function generates a fatal (FALS) error when the user-defined conditions are met in program.
	Fatal Error Detection (Continued from	Version Error Detection	This function detects an error when a user program includes a function that is not supported by the current unit version.
	previous page)	Memory Card Transfer Error Detection	This function detects an error when the automatic file transfer from Memory Card fails at startup.
	Memory Self-resto	ration Function	This function performs a parity check on the user program area and self-restoration data.

	Function		Description
	Simple Backup Function		This function collectively backs up the data in CPU Unit (user programs, parameters, and I/O memory) and internal backup data in the I/O Units.
	Unsolicited Communications		A function that allows the PLC to use Network Communications Instruction to send required FINS commands to a computer connected via a Host Link
Maintenance	Remote Programming and Monitoring		Host Link communications can be used for remote programming and remote monitoring through a Controller Link, Ethernet, DeviceNet, or SYSMAC LINK Network. Communications across network layers can be performed. Controller Link or Ethernet: 8 layers DeviceNet or SYSMAC LINK: 3 layers
	Automatic Online Connection via Network Direct Connection		This function enables automatically connecting to the PLC online when the CX-Programmer is directly connected by a serial connection (peripheral (USB) port or serial port).
	Read Protection using Password		This function protects reading and displaying programs and tasks using passwords. Write protection: Set using the DIP switch. Read protection: Set a password using the CX-Programmer.
Converter	FINS Write Protection		This function prohibits writing by using FINS commands sent over the network.
Security	Unit Name Function		This function allows the users to give any names to the Units. Names are verified at online connection to prevent wrong connection
	Hardware ID Using Lot Numbers		This function sets operation protection by identifying hardware using the user programs according to lot numbers stored in the Auxiliary Area.

Unit Versions

Units	Models	Unit version
		Unit version 1.4
CJ2H CPU Units	CJ2H-CPU6□	Unit version 1.3
CJ2H CFU UNIS	JJ2H-CP06	Unit version 1.2
		Unit version 1.1 *

* Although the product of unit version 1.0 does not exist for the CJ2H CPU unit (CJ2H-CPU6), this unit version 1.1 means that the functions are added based on the same functionality as CJ2H-CPU6-EIP unit version 1.0.

Function Support by Unit Version

Unit Version 1.4 or Later

CX-Programmer version 9.3 or higher must be used to enable using the functions added for unit version 1.4.

Unit	CJ2H CPU Unit		
Model	CJ2H-CPU6□		
Unit version	Unit version 1.4 or higher	Unit version 1.3 or earlier	
Synchronous unit operation function Position Control Units with EtherCAT interface CJ1W-NC 82 work for synchronous unit operation.	Supported.	Not supported.	

Unit Version 1.3 or Later

CX-Programmer version 9.1 or higher must be used to enable using the functions added for unit version 1.3.

	Unit	CJ2H CPU Unit		
	Model	CJ2H-(CPU6	
Item	Unit version	Unit version 1.3 or later	Unit version 1.2 or earlier	
Special instructions for certain	CJ1W-NC281/NC481/NC881 Position Control Units: PCU HIGH-SPEED POSITIONING (NCDMV(218))	Supported.	Not supported.	
Special I/O Units	CJ1W-NC281/NC481/NC881 Position Control Units: PCU POSITIONING TRIGGER (NCDTR(219))	Supported.	Not supported.	
New special instructions	SIGNED AREA RANGE COMPARE: ZCPS(088)	Supported.	Not supported.	
	DOUBLE SIGNED AREA RANGE COMPARE: ZCPSL(116)	Supported.	Not supported.	

Unit Version 1.2 or Later

CX-Programmer version 8.3 or higher must be used to enable using the functions added for unit version 1.2.

Unit	CJ2H CPU Unit			
Model	CJ2H-CPU6□			
Unit version	Unit version 1.2 or higher	Unit version 1.1 or earlier		
EM force-set/reset function	Supported.	Not supported.		
Jota: User programs that use functions of C 12H CPI LUnits with unit version 1.2 or later cannot be used with C 12H CPI LUnits with unit version				

Note: User programs that use functions of CJ2H CPU Units with unit version 1.2 or later cannot be used with CJ2H CPU Units with unit version 1.1 or earlier. If an attempt is made to transfer a program that uses any of these functions from the CX-Programmer to a CPU Unit with unit version 1.1 or earlier , an error will be displayed and it will not be possible to download to the CPU Unit.

Unit Version 1.1 or Later

CX-Programmer version 8.1 or higher must be used to enable using the functions added for unit version 1.1.

Note: Although the product of unit version 1.0 does not exist for the CJ2H CPU unit (CJ2H-CPU6_), it describes here assuming that the functions are added with unit version 1.1 to the unit version 1.0 functions as well as CJ2H-CPU6_-EIP.

Unit	CJ2H CPU Unit
Model	CJ2H-CPU6□
Unit version	Unit version 1.1 or higher
High-speed interrupt function Decreased overhead time for interrupt tasks Minimum interval setting of 0.1 ms for Scheduled Interrupt Task	Supported.
Changing the minimum cycle time setting in MONITOR mode	Supported.
Synchronous unit operation function Position Control Units (High-speed type) CJ1W-NC□□4 work for synchronous unit operation.	Supported.
Addition of Immediate refreshing instruction only for specific Special I/O Units and CPU Bus Units For CJ1W-AD042 : Analog Input Direct Convert AIDC (216) For CJ1W-DA042V : Analog Output Direct Convert AODC (217) For CJ1W-SCU22/32/42 : Direct Receive Via Serial Communications Unit DRXDU (261) Direct Transmit Via Serial Communications Unit DTXDU (262)	Supported.

Unit Versions and Programming Devices

The following tables show the relationship between unit versions and CX-Programmer versions.

Unit Versions and Programming Devices

	Functions		Required Programming Device						
CPU Unit			CX-Programmer					Programming	
			Ver. 7.1 or lower	Ver.8.0	Ver.8.1/ Ver.8.2	Ver. 8.3	Ver. 9.1/9.2	Ver. 9.3 or higher	Console
CJ2H-CPU6D Unit version 1.4		Using new functions	-	-	-	-	-	OK	
		Not using new functions	-	OK *1	OK *1	ОК	ОК	ОК	
	Functions added for unit version 1.3	Using new functions	-	-	-	-	OK	OK	
		Not using new functions	-	OK *1	OK *1	OK	ОК	ОК	**0
CJ2H-CPU6□	Functions added for unit version 1.2	Using new functions	-	-	-	OK	OK	OK	- *3
Unit version 1.2		Not using new functions	-	OK *1	OK *1	OK	ОК	ОК	
CJ2H-CPU6 Unit version 1.1	Functions added for unit version 1.1	Using new functions	-	-	OK *2	OK	OK	OK	
		Not using new functions	-	_	ОК	ОК	ОК	ОК	

*1. It is not necessary to upgrade the version of the CX-Programmer if functionality that was enhanced for the upgrade of the CPU Unit will not be used.
 *2. CX-Programmer version 8.2 or higher is required to use CJ2 CPU Units (CJ2H-CPU6). However the functions of unit version 1.0 and only High-speed interrupt function and Changing the minimum cycle time setting in MONITOR mode are supported in CX-Programmer version 8.02.
 *3. A Programming Console cannot be used with a CJ2H CPU Unit.

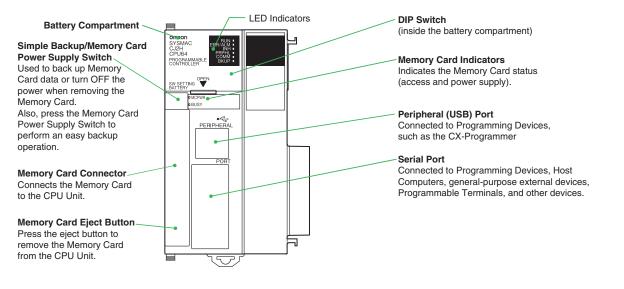
Device Type Setting

The unit version does not affect the setting made for the device type on the CX-Programmer. Select the device type as shown in the following table regardless of the unit version of the CPU Unit.

Series	CPU Unit group	CPU Unit model	Device type setting on CX-Programmer Ver. 8.0 or higher
CJ Series	CJ2H CPU Units	CJ2H-CPU6	CJ2H

External Interface

A CJ2H CPU Unit (CJ2H-CPU6) provides two communications ports for external interfaces: a peripheral (USB) port and a serial port.



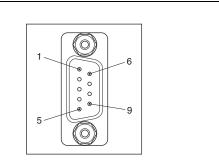
Peripheral (USB) Port

Item	Specification		
Baud Rate	12 Mbps max.		
Transmission Distance	5 m max.		
Interface	USB 2.0-compliant B-type connector		
Protocol	Peripheral Bus		

Serial Port

Item	Specification		
Communications method	Half duplex		
Synchronization Start-stop			
Baud rate 0.3/0.6/1.2/2.4/4.8/9.6/19.2/38.4/57.6/115.2 kbps *			
Transmission distance 15 m max.			
Interface EIA RS-232C			
Protocol	Host Link, NT Link, 1:N, No-protocol, or Peripheral Bus		

* Baud rates for the RS-232C are specified only up to 19.2 kbps. The CJ Series supports serial communications from 38.4 kbps to 115.2 kbps, but some computers cannot support these speeds. Lower the baud rate if necessary.



Pin No. Signal Nan		Name	Direction
1	FG	Protection earth	-
2	SD (TXD)	Send data	Output
3	RD (RXD)	Receive data	Input
4	RS (RTS)	Request to send	Output
5	CS (CTS)	Clear to send	Input
6	5 V	Power supply	-
7	DR (DSR)	Data set ready	Input
8	ER (DTR)	Data terminal ready	Output
9	SG (0 V)	Signal ground	-
Connector hood	FG	Protection earth	-

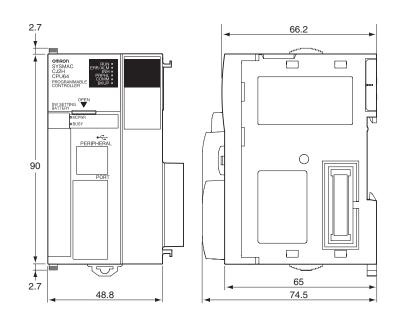
Note: Do not use the 5-V power from pin 6 of the RS-232C port for anything but CJ1W-CIF11 RS-422A Conversion Adapter, NT-AL001 RS-232C/ RS-422A Conversion Adapter and NV3W-M□20L(-V1) Programmable Terminal. The external device or the CPU Unit may be damaged.

(Unit: mm)

Dimensions

CJ2H CPU Unit CJ2H-CPU6□





Related Manuals

Cat. No.	Model	Manual	Application	Description
W472	CJ2H-CPU6□-EIP CJ2H-CPU6□ CJ2M-CPU□□	CJ-series CJ2 CPU Unit Hardware User's Manual	Hardware specifications for CJ2 CPU Units	Describes the following for CJ2 CPU Units: • Overview and features • Basic system configuration • Part nomenclature and functions • Mounting and setting procedure • Remedies for errors • Also refer to the <i>Software User's Manual</i> (W473).
W473	CJ2H-CPU6□-EIP CJ2H-CPU6□ CJ2M-CPU□□	CJ-series CJ2 CPU Unit Software User's Manual	Software specifications for CJ2 CPU Units	Describes the following for CJ2 CPU Units: • CPU Unit operation • Internal memory • Programming • Settings • Functions built into the CPU Unit Also refer to the Hardware User's Manual (W472)
W474	CJ2H-CPU6 -EIP CJ2H-CPU6 CJ2M-CPU3 CJ2M-CPU1 CS1G/H-CPU -H CS1G/H-CPU-H CJ1G/H-CPU-H CJ1G-CPU- CJ1M-CPU- NSJ	CS/CJ/NSJ-series Instructions Reference Manual	Information on instructions	Describes each programming instruction in detail. Also refer to the <i>Software User's Manual</i> (W473) when you do programming.
W342	CJ2H-CPU6-EIP CJ2H-CPU6 CJ2H-CPU6 CS1G/H-CPU0H CS1G/H-CPU0H CS1D-CPU0H CS1D-CPU0S CS1W-SC00-V1 CJ1H-CPU0H-R CJ1G/H-CPU0H CJ1G-CPU0P CJ1M-CPU0 CJ1G-CPU0 CJ1W-SCU0-V1 CP1H-X000- CP1H-X000- NSJ-000(0)-000	CS/CJ/CP/NSJ-series Communications Command Reference Manual	Information on communications for CS/CJ/CP-series CPU Units and NSJ-series Controllers	Describes C-mode commands and FINS commands Refer to this manual for a detailed description of commands for communications with the CPU Unit using C mode commands or FINS commands. Note: This manual describes the communications commands that are addressed to CPU Units. The communications path that is used is not relevant and can include any of the following: serial ports on CPU Units, communications ports on Serial Communications Units/Boards, and Communications Units. For communications commands addressed to Special I/O Units or CPU Bus Units, refer to the operation manual for the related Unit.
W463	CXONE-AL	CX-One Setup Manual	Installing software from the CX- One	Provides an overview of the CX-One FA Integrated Tool Package and describes the installation procedure.
W446		CX-Programmer Operation Manual		
W447	WS02-CXPC□-V□	CX-Programmer Operation Manual Functions Blocks/ Structured Text	Support Software for Windows computers CX-Programmer operating	Describes operating procedures for the CX-Programmer. Also refer to the Software User's Manual (W473) and Instructions Reference Manual (W474) when you do
W469	-	CX-Programmer Operation Manual SFC Programming	procedure	programming.
W366	WS02-SIMC1-E	CS/CJ/CP/NSJ-series CX-Simulator Operation Manual	Operating procedures for CX- Simulator Simulation Support Software for Windows computers Using simulation in the CX- Programmer with CX- Programmer version 6.1 or higher	Describes the operating procedures for the CX-Simulator. When you do simulation, also refer to the <i>CX-Programmer</i> <i>Operation Manual</i> (W446), <i>Software User's Manual</i> (W473), and <i>CS/CJ/NSJ series Instructions Reference Manual</i> (W474).
W464	CXONE-AL	CS/CJ/CP/NSJ-series CX-Integrator Network Configuration Software Operation Manual	Network setup and monitoring	Describes the operating procedures for the CX-Integrator.

Read and understand this catalog.

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Performance Data.

Data presented in Omron Company websites, catalogs and other materials 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 user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation Industrial Automation Company