SYSMAC CJ-series CJ2H (Built-in EtherNet/IP) CPU Units

CJ2H-CPU6□-EIP

CSM_CJ2H-CPU-EIP_DS_E_2_1

Flagship PLCs with Built-in Multifunctional Ethernet Port

• Small, Fast, Flexible:

The CJ2 CPU Units inherit and improve CJ1 features while also adding EtherNet/IP as a standard feature for high-speed, high-capacity Ethernet-based networking.



CJ2H-CPU6□-EIP

Features

- High-speed, high-capacity EtherNet/IP is built into every model.
- The CIP communications protocol is supported for direct access to multivendor devices.
- Tag memory provided for easy access from host PCs and PTs.
- Even more program memory and data memory.
- Superior high-speed control performance: LOAD instructions execute in 16 ns, SINE instructions in 0.59 µs.

Ordering Information

CJ2H (Built-in EtherNet/IP) CPU Units

		Speci	fications		Current consumption (A)			
Product name	I/O capacity/Mountable Units (Expansion Racks)	Program capacity			5 V 24 V		Model	Standards
	2,560 points / 40 Units (3 Expansion Racks max.)	400K steps	832K words DM: 32K words EM: 32K words × 25 banks	0.016 μs	0.82 (See note.)		CJ2H-CPU68-EIP	
CJ2H (Built-in EtherNet/IP) CPU Units		250K steps	512K words DM: 32K words EM: 32K words × 15 banks				CJ2H-CPU67-EIP	UC1, N, L, CE
CPO UNITS		150K steps	352K words DM: 32K words EM: 32K words × 10 banks			-	CJ2H-CPU66-EIP	
		100K steps	160K words DM: 32K words EM: 32K words × 4 banks				CJ2H-CPU65-EIP	
		50K steps	160K words DM: 32K words EM: 32K words × 4 banks				CJ2H-CPU64-EIP	

Note: Add 0.15 A per Adapter when using NT-AL001 RS-232C/RS-232A Adapters. Add 0.04 A per Adapter when using CJ1W-CIF11 RS-422A Adapters.

International Standards

- The standards indicated in the "Standards" column are those current for UL, CSA, cULus, NK, and Lloyd standards and EC Directives as of the end of April 2008. 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
- Ask your OMRON representative for the conditions under which the standards were met.

Accessories

The following accessories come with CPU Unit:

Item	Specification					
Battery	CJ1W-BAT01					
End Cover	CJ1W-TER01 (necessary to be mouned at the right end of CPU Rack)					
End Plate	PFP-M (2 pcs)					
Serial Port (RS-232C) Connector	Connector set for serial port connection (D-SUB 9-pin male connector)					

General Specifications

	Ham	CJ2H-					
	Item	CPU64-EIP	CPU65-EIP	CPU66-EIP	CPU67-EIP	CPU68-EIP	
Enclosure		Mounted in a par	nel				
Grounding		Less than 100 Ω					
CPU Rack Dimensio	ns	90 mm × 65 mm	\times 80 mm (H \times D \times V	V)			
Weight		280 g or less					
Current Consumption	on	5 VDC, 0.82 A					
	Ambient Operating Temperature	0 to 55°C					
	Ambient Operating Humidity	10% to 90%					
	Atmosphere	Must be free from corrosive gases.					
	Ambient Storage Temperature	−20 to 70°C (excluding 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 supply line (Conforms to IEC 61000-4-4.)					
Ose Environment	Overvoltage Category	Category II: Conforms to JIS B3502 and IEC 61131-2.					
	EMC Immunity Level	Zone B					
	Vibration Resistance	Conforms to JIS C60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz Acceleration of 9.8 m/s² for 100 min in X, Y, and Z directions (10 sweeps of 10 min each 100 min total)					
	Shock Resistance	Conforms to JIS C60068-2-27. 147 m/s², 3 times in X, Y, and Z directions (100 m/s² for Relay Output Units)					
Dottom	Life	5 years at 25°C	5 years at 25°C				
Battery	Model	CJ1W-BAT01					
Applicable Standard	Is	Conforms to cUL	us and EC Directive	es.			

Performance Specifications

	Items		CJ2H-						
	items		CPU64-EIP CPU65-EIP CPU66-EIP CPU67-EIP CPU68-EIP						
User Memory			50K steps	100K steps	150K steps	250K steps	400K steps		
I/O Bits			2,560 bits						
	Overhead F	Processing Time	Normal Mode: 200 μ s (If tag data links are used with EtherNet/IP, add the following to the above time: 100 μ s + Number of transferred words \times (0.33 μ s or 0.87 μ s *)) * When High-speed interrupt function is used						
Processing	Execution	Time	Basic Instructions: (Special Instructions						
Speed	Interrupts	I/O Interrupts and External Interrupts	Return time to cyclic * When High-speed	c task : 11 μs or 8 μs : d interrupt function is :		0) ′			
		Scheduled Interrupts	Return time to cyclic		s ≭ (27 µs in unit Ver. ⊁ (15 µs in unit Ver.1. used				
Maximum Num	ber of Conne	ctable Units	Total per CPU Rack Total per PLC: 40 U	or Expansion Rack: Inits max.	10 Units max.;				
Maximum Num	ber of Expans	sion Racks	3 max.						
	I/O Area		2,560 bits (160 word	ds): Words CIO 0000	to CIO 0159				
	Link Area		3,200 bits (200 word	ds): Words CIO 1000	to CIO 1199				
	CPU Bus U	nit Area	6,400 bits (400 word	ds): Words CIO 1500	to CIO 1899				
CIO Area	Special I/O	Unit Area	15,360 bits (960 wo	rds): Words CIO 2000) to CIO 2959				
	DeviceNet A	Area	9,600 bits (600 word	ds): Words CIO 3200	to CIO 3799				
	Internal I/O	Area		ds): Words CIO 1300 vords): Words CIO 38 external I/O.					
Work Area			8,192 bits (512 word Cannot be used for	ds): Words W000 to V	V511				
Holding Area			8,192 bits (512 words): Words H000 to H511 Bits in this area maintain their ON/OFF status when PLC is turned OFF or operating mode is changed. Words H512 to H1535: These words can be used only for function blocks. They can be used only for function block instances (i.e., they are allocated only for internal variables in function blocks).						
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						
Temporary Are	a		16 bits: TR0 to TR1	5					
Timer Area			4,096 timer number	s (T0000 to T4095 (se	eparate from counters))			
Counter Area			4,096 counter numbers (C0000 to C4095 (separate from timers))						
DM Area			DM Area words for	Special I/O Units: D20	ddressed either by bit 0000 to D29599 (100 v 00 to D31599 (100 wo	words × 96 Units)			
EM Area			32k words/bank × 25 banks max.: E00_00000 to E18_32767 max. (Bits in the EM Area can be addressed either by bit or by word.)						
Lin Alcu			32K words × 4 banks	32K words × 4 banks	32K words × 10 banks	32K words × 15 banks	32K words × 25 banks		
		Force-set/reset	EM3	ЕМ3	EM6 to EM9	EM7 to EME	EM11 to EM18		
		Enabled Banks		ing is enabled only for	r areas specified for a	utomatic address alloc	ation.		
Index Register	s		IR0 to IR15 These are special registers for storing PLC memory addresses for indirect addressing. (Index Registers car be set so that they are unique in each task or so that they are shared by all tasks.)						
Cyclic Task Fla	ng Area		128 flags						
Memory Card			128 MB, 256 MB, or 512 MB						
Operating Mod	es		PROGRAM Mode: Programs are not executed. Preparations can be executed prior to program execution in this mode. MONITOR Mode: Programs are executed, and some operations, such as online editing, and changes to present values in I/O memory, are enabled in this mode. RUN Mode: Programs are executed. This is the normal operating mode.						
Execution Mod	le		Normal Mode						
Programming Languages			Ladder Logic (LD), Sequential Function Charts (SFC), Structured Text (ST), and Instruction Lists (IL)						
Function	Maximum r	number of definitions	2,048						
Blocks	Maximum r	number of instances	2,048						
	Type of Tas	sks	Cyclic tasks Interrupt tasks (Pow tasks)	er OFF interrupt tasks	, scheduled interrupt to	asks, I/O interrupt task	s, and external interr		
Tasks	Number of	Tasks	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.)						

				CJ2H-						
	Items	CPU64-EIP	CPU65-EIP	CPU66-EIP	CPU67-EIP	CPU68-EIP				
	Type of Symbols	Global symbols: CNetwork symbols (Local symbols: Can be used only within a single task in the PLC. Global symbols: Can be used in all tasks in the PLC. Network symbols (tags): I/O memory in the CPU Unit can be externally accessed using symbols, depending on parameter settings. 							
Symbols (Variables)	Data Type of Symbols	BOOL (bit) UINT (one-word unsigned binary) UDINT (two-word unsigned binary) ULINT (four-word signed binary) INT (one-word signed binary) DINT (two-word signed binary) LINT (four-word signed binary) UINT BCD (one-word unsigned BCD) *1 UDINT BCD (two-word unsigned BCD) *1 ULINT BCD (tour-word unsigned BCD) *1 ULINT BCD (four-word unsigned BCD) *1 EAL (two-word floating-point) CHANNEL (word) *1 NUMBER (constant or number) *1 WORD (one-word hexadecimal) DWORD (two-word hexadecimal) LWORD (four-word hexadecimal) STRING (1 to 255 ASCII characters) TIMER (timer) *2 *1. Cannot be used in Function blocks								
	Maximum Size of Symbol	32k words								
	Array Symbols (Array Variables)									
	Number of Array Elements	32,000 elements max.								
	Number of Registrable Network Symbols (Tags)	20,000 max.								
	Length of Network Symbol (Tag) Name	255 bytes max.								
	Encoding of Network Symbols (Tags)	UTF-8								
	Memory Capacity	8,000 words		16,000 words	32,000 words					
	memory capacity	(Up to 32k words × 2	5 banks when EM is s	pecified in CX-Program	mmer)					
	Number of Samplings	Bits = 31, one-word	data =16, two-word da	ta = 8, four-word data	= 4					
	Sampling Cycle	1 to 2,550 ms (Unit:	1 ms)							
Data Tracing	Trigger Conditions	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 (Equals (≤), Not Equal (≠)								
	Delay Value	-32,768 to +32,767 ms								
File Memory	•	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	Function block program memory, comment file, program index file, symbol tables									

			lkam				CJ2H-		
			Item		CPU64-EIP	CPU65-EIP	CPU66-EIP	CPU67-EIP	CPU68-EIP
	Loc	nical	Dorte for	Logical Ports	8 ports (Used for SI	END, RECV, CMND,	PMCR, TXDU, and	RXDU instructions.)	
_		Logical Ports for Communications Extended Logica Ports		Extended Logical Ports	64 ports (Used for SEND2, RECV2, CMND2, and PMCR2 instructions.)				
	CIP		unications	Class 3 (Number of Connections)	Number of connecti	ions: 64			
			cation	UCMM (Non- connection Type)		of clients that can com of servers that can co			
		•	eral (USB) Port		USB 2.0-compliant	B-type connector			
	_		d Rate		12 Mbps max.				
	\vdash		nsmission Dist	tance	5 m max.				
	Serial Port				Interface: Conforms	s to EIA RS-232C.			
	-		nmunications		Half-duplex				
	 		chronization N	Method	Start-stop				
	-		d Rate			8, 9.6, 19.2, 38.4, 57.	6, or 115.2 (kbps)		
			nsmission Dist	tance	15 m max.				
				Mathad	- CCMA/CD				
		š -	Media Access Modulation	Method	CSMA/CD Baseband				
		icat	Transmission	Pathe	Star				
		eci.	Baud Rate	rauis	100 Mbps (100Base	2 TV)			
		g.	Transmission	Media	. ,	air (STP) cable; Categ	ories: 5 5e		
		ë -	Transmission		100 m (between hu	. , ,	01103. 0, 00		
		smis		scade Connections	No restrictions if switching hub is used.				
			CIP Communications: Tag Data Links		_				
				Connections	256				
mmu- ations			Packet Inte	rval (Refresh period)	0.5 to 10,000 ms (U Can be set for each of nodes.)		II be refreshed at th	ne set interval, regardle	ess of the numb
			Permissible	Communications Band	6,000 pps * 1				
			Number of	Tag Sets	256				
			Type of Tag	js .	CIO, DM, EM, HR,	and WR			
			Number of	Tags per Connection	8 (Seven tags if PL	C status is included in	the segment.)		
			Maximum L	ink Data Size per Node	184,832 words				
		s	Maximum D	Oata Size per Connection	252 or 722 words *2 (Data is synchronized within each connection.)				
		ions	Number of	Registrable Tag Set	256 (1 connection = 1 segment)				
		licat	Maximum T	ag Set Size	722 words (One wo	ord is used when PLC	status is included i	n the segment.)	
		Specificat		lumber of Tags e in a Single Cycle of 3		Unit to EtherNet/IP): 2 rNet/IP to CPU Unit):			
		Communications	Data Size R Cycle of CP	tefreshable in a Single PU Unit *3		to EtherNet/IP): 6,432 rNet/IP to CPU): 6,432			
		junic		Гад Data Link Parameter ring Operation	OK * 4				
		ၟႄ	Multi-cast F	Packet Filter *5	OK				
			CIP Communion Messages	cations: Explicit	-				
			Class 3 (Nu	mber of Connections)	Number of connecti				
			UCMM (Nor	n-connection Type)		of clients that can com of servers that can co			
			CIP Routing	9	OK (CIP routing is	enabled for the followi	ng remote Units: C	J1W-EIP21 and CJ2H	-CPU6□-EIP.)
			FINS Commun	nications	-				
			FINS/UDP		OK				
			FINICATOR						
			FINS/TCP		16 connections max	X.			
			_	onformance Test	16 connections max Conforms to A5. 10Base-T/100Base				

- *1. "Packets per second" is the number of communications packets that can be processed per second.
- *2. Large Forward Open (CIP optional specification) must be supported in order for 505 to 1,444 bytes to be used as the data size. Application is supported between CS/CJ-series PLCs. When connecting to devices from other manufacturers, make sure that the devices support the Large Forward Open specification.
- *3. If the maximum number is exceeded, refreshing will require more than one CPU Unit cycle.
- *4. When changing parameters, however, the EtherNet/IP port where the change is made will be restarted. In addition, a timeout will temporarily occur at the other node that was communicating with that port, and it will then recover automatically.

 *5. The EtherNet/IP port supports an IGMP client, so unnecessary multicast packets are filtered by using a switching hub that supports IGMP

Function Specifications

	F	unctions		Description		
Cuelo Timo	Minimum Cycle	e 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. (Unit version 1.1)		
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 Units, and	I/O Refreshing	Immediate Refreshing	I/O refreshing by immediate refreshing instructions		
	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 Response 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 Function		All of the outputs on Basic I/O Units can be turned OFF when an error occurs in RUN o MONITOR mode.		
Unit (I/O) Management		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.		
	Special I/O Units and CPU Bus Units	Unit Restart Bits to Restart Units		A Special I/O Unit or CPU Bus Unit can be restarted.		
		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 Fi	rst Word Settings	The first words allocated to a Units on the Racks can be set.		
	Holding I/O Memory when Changing Operating Modes			The status of I/O memory can be held when the operating mode is changed or power is turned ON. The forced-set/reset status can be held when the operating mode is changed 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 N	Memory		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 Configuration			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.		
- Cu. US	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.		

Host Link (PSWAY) Communications con be sent from a host computer of PT to readwrise IC memory, readscrated the operation conce, and perform other operations for PIC. No-protocol Communications Uic instructions for communications ports (such at XXDIRXD instructions) can be used for odds transfer with perplaned devices such as the conditions and printers. Peripheral Bus Uic instructions Uic instruc		Funct	tion	Description			
Port Perspectations Computer, High-speed communications are supported.	Communication	ons		-			
Host Link (SYSWAY) Communications No-protocol Communications No-protocol Communications No-protocol Communications No-protocol Communications No-protocol Communications NT Link Communications Peripheral Bus Protocol Communications Serial Catevay This gateway are protocol Communications and supported. Serial Catevay This gateway are passed communications are supported. Serial Catevay This gateway are passed communications are supported. Serial Catevay This gateway are passed communications are supported. This gateway are passed communications are supported. Serial Catevay This gateway are passed communications are supported. This gateway are passed communications are supported. Serial Catevay This gateway are passed communications are supported. This gateway are passed communications are supported. Serial Catevay Tag Data Links Topical Links Communications Serial Catevay This gateway passed communications are supported. This gateway are passed communications. Proved Communications Serial Catevay This gateway are passed communications. Proved Communications Serial Catevay This gateway are passed communications. Proved Communications Serial Catevay This gateway are passed communications. Proved CPF Interrupts A lask can be recorded from the devices on the EtherNetPreNovA. A py FINS commands can be transferred with the devices on the EtherNetPreNovA. This gateway are passed communications are passed communications are passed communications. This gateway are passed communications are passed communications are passed communications. This gateway are passed communications are passed communications. This gateway are passed communications. Serial Catevay are passed communications. Serial Catevay a			Peripheral Bus				
Host Link (\$YSWAY) Communications		Serial Port		-			
An Electronic Communications An I Link Communications NT Link Communications NT Link Communications NT Link Communications Perpheral Bus Communications Perpheral Bus Communications NT Link Communications Perpheral Bus Communications Communications I This gateway analysis and analysis with a various kinds of Support Software norming on a personal communications are supported. EtherNet/IP Port CIP CIP CIP CIP CIP Link Communications Service Programs CTORIP, LUPP, ARP, ICMP (ping only), BOOTP Applications: FINIS, CIP POPS, SMTP, SMTP, SMTS (Client), FIP (Server) Programs Sorvice Programs Sorvice Any CIP communications Service Service Service Service Service Service Service Any CIP communications Any FINIS comm							
Serial Gateway Ferpineral Bus Sorial Gateway Ferpineral Bus Sorial Gateway Ferpineral Bus Sorial Gateway Ferpineral Bus Sorial Gateway This gateway enables receiving and automatically converting PINS to the CompoWay/F. 1008ass-TVIOGass-T Protocosis TCP/Pis UpIN, APP, (LOP), APP, (LOP		No-protocol Communications		data transfer with peripheral devices such as bar code readers and printers.			
Serial Gateway EtherNet/IP Port EtherNet/IP Port Trib gateway enables receiving and automatically converting FINS to the CompoNay/F. 1008ase-17. 10		NT Link Communications					
Etherhet/IP Port Communications Final Co		Peripheral Bus					
Etherket/P Port		Serial Gateway		This gateway enables receiving and automatically converting FINS to the CompoWay/F.			
Cip		EtherNet/IP Port		Protocols: TCP/IP, UDP, ARP, ICMP (ping only), BOOTP			
Service Message Communications Any CIP commands can be received from the devices on the EthenNexitiP network. FiNS Communications Service Service Any FINS commands can be transferred with the devices on the EthenNexitiP network. Any FINS commands can be transferred with the devices on the EthenNexitiP network. Any FINS commands can be transferred with the devices on the EthenNexitiP network. Any FINS commands can be transferred with the devices on the EthenNexitiP network. Any FINS commands can be transferred with the devices on the EthenNexitiP network. Any FINS commands can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when an input signal is injust to an Interrupt Input Unit. At task can be executed when interrupt in the Input Unit. At task can be executed when interrupt in the Input Unit. At task can be executed when Input Unit. At task can be executed from a Special I/O Unit or a CPU Unit. At task can be executed when Input Unit. At task can be executed from a Special I/O Unit or Input Unit. At task		CIP	Tag Data Links				
Communications Message Communications Any FINS commands can be transferred with the devices on the EtherNet/IP network.			Message Communications	Any CIP commands can be received from the devices on the EtherNet/IP network.			
# When High-speed interrupt function is used. ### When High-speed interrupt function is used. ### At ask can be executed when QPU units gower turns OFF. ### At ask can be executed when an input signal is input to an interrupt input Unit. ### At ask can be executed when an input signal is input to an interrupt Input Unit. ### At ask can be executed when an input signal is input to an interrupt Input Unit. ### At ask can be executed when an input signal is input to an interrupt Input Unit. ### At ask can be executed when an input signal is input to an interrupt Input Unit. ### At ask can be executed when an input signal is input to an interrupt on an input signal is input to an interrupt input Unit. ### At ask can be executed when an input signal is input to an interrupt input Unit. ### At ask can be executed when an input signal is input to an interrupt input Unit. ### At ask can be executed when an input signal is input to an interrupt input Unit. ### At ask can be executed when an input signal is input to an interrupt input Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when interrupts are requested from a Special I/O Unit or a CPU But Unit. ### At ask can be executed when an interrupt Input Unit. ### At ask can be executed when an interrupt Input Unit. ### At ask can be executed when a terrupt Input Unit. ### At ask can be executed when a terrupt Input Unit. ### At ask can be executed when a terrupt Input Unit.		Communications	Message Communications	Any FINS commands can be transferred with the devices on the EtherNet/IP network.			
Interrupt Tasks		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.			
External Interrupt Tasks High-speed Interrupt Function Improves performance for executing interrupt tasks with certain restrictions. Cock data is stored in memory. Accuracy (Accuracy (Accuracy depends on the temperature.) Ambient temperature of 55°C - 3.5 to 4.05 min error per month Ambient temperature of 25°C - 1.5 to 4.15 min error per month Ambient temperature of 25°C - 1.5 to 4.15 min error per month Ambient temperature of 25°C - 3.5 to 4.05 min error per month Ambient temperature of 25°C - 3.5 to 4.05 min error per month Ambient temperature of 25°C - 3.5 to 4.05 min error per month Ambient temperature of 25°C - 3.5 to 4.5 min error per month Ambient temperature of 25°C - 3.5 to 4.5 min error per month Ambient temperature of 25°C - 3.5 to 4.05 min error per month Ambient temperature of 25°C - 3.5 to 4.5 min error per month Ambient temper			•	·			
High-speed Interrupt Function Improves performance for executing interrupt tasks with certain restrictions. Cock data is stored in memory. Accuracy (Accuracy depends on the temperature.) Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to -1.5 min error per month Ambient temperature of 25°C; -1.5 to entire temperature of 25°C; -1.5 to entire temperature of 25°C; -1.5 to entire temperature of 25°C; -1.5	Interrupt	I/O Interrupt Tasks	S				
Clock Function Clock Cloc		External Interrupt	Tasks				
Clock Function Accuracy (Accuracy (Accuracy depends on the temperature of 25°C: -3.5 to +1.5 min error per month Ambient temperature of 25°C: -3.5 to +1.5 min error 45°C: -3.5		High-speed Interru	ıpt Function				
Operation Start Time Storage		Clock Function		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			
PROGRAM mode is stored.		Operation Start Tir	me Storage	The time when operating mode was last changed to RUN mode or MONITOR mode is stored			
Power Interruption Time Storage Total Power ON Time Calculation Power ON Clock Data Storage User Program Overwritten Time Storage The time when the power is turned OFF is stored. A history of the times when the power was turned ON is stored. A history of the times when the power was turned ON is stored. The time that the user program was last overwritten is stored. The time when the Parameter Area was overwritten is stored. Holding Area data, DM Area data, EM Area data, Counter Completion Flags, and counter present values are had even when power is turned OFF. CIO Area, Work Area, some Auxiliar 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. Power OFF Detection Time Setting Power OFF Detection Delay Time Power OFF Detection Delay Time Number of Power Interruptions Counter The detection of power interruptions can be set. AC power supply: 2 to 5 ms (CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) 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. Standard programming can be encapsulated as function blocks. Ladder programming or structured text Acider programming or structured text Dolline Editing Dolline Editing Data Tracing Data Tracing Data Tracing Data Tracing Data Tracing Data Tracing The specified IO 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 enable continuously logging the data by constantly uploading the trace data uploadind during tracing). Data Tracing Data Traci	Clock	Operation Stop Tir	me Storage				
Total Power ON Time Calculation Power ON Clock Data Storage User Program Overwritten Time Storage The time that the PLC has been ON is stored in increments of 10 hours. A history of the times when the power was turned ON is stored. The time that the user program was last overwritten is stored. The time when the Parameter Area was overwritten is stored. Holding Area data, DM Area data, EM Area data, Counter Completion Flags, and counter present values are held even when power is turned OFF. ClO Area, Work Area, some Auxiliar 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. Power OFF Detection Time Setting Power OFF Detection Time Setting The detection time for power interruptions can be set. AC power supply: 2 to 5 ms (Ca11W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supporte		Startup Time Stora	age	The time when the power was turned ON is stored.			
Power ON Clock Data Storage User Program Overwritten Time Storage Parameter Date Storage The time that the user program was last overwritten is stored. The time when the Parameter Area was overwritten is stored. Holding Area data, DM Area data, EM Area data, Counter Completion Flags, and counter present values are held even when power is turned OFF. ClO Area, Work Area, some Auxiliar 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. Power OFF Detection Time Setting Power OFF Detection Delay Time The detection time for power interruptions can be set. AC power supply: 2 to 5 ms (Ca11W-PD022) or 2 to 20 ms (CJ1W-PD025) The detection of power interruptions can be delayed: 0 to 10 ms (Not supported by the CJ1W-PD022) or 2 to 20 ms (CJ1W-PD025) Function Blocks Standard programming can be encapsulated as function blocks. Languages in Function Block Definitions Ladder programming can be encapsulated as function blocks. Languages in Function Block Definitions Ladder programming or structured text The program can be changed during operation (in MONITOR or PROGRAM mode), except for block programming areas. Specified bits can be set or reset. Differentiate Monitoring Debugging Data Tracing 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 enable continuously logging the data by constantly uploading the trace data (trace data uploadin during tracing) *The trace data can be uploaded from PROGRAM mode to MONITOR or RUN mode). *The Iocacion and task number where execution stopped for a program error is recorded. The programs can be checked for items such as no END instruction and FALS/FAL errors a Theory of the programs can be checked for items such as no END instruction and		Power Interruption	Time Storage	·			
User Program Overwritten Time Storage							
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Power OFF Detection Time Setting				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			
Number of Power Interruptions Counter Function Blocks Languages in Function Block Definitions Ladder programming can be encapsulated as function blocks. Languages in Function Block Definitions Ladder programming or structured text Online Editing Force-Set/Reset Differentiate Monitoring Data Tracing Data Tracing Data Tracing Data Tracing North Data Tracing North Data Tracing Can be automatically started when operation is started (i.e., when the operatin mode is changed from PROGRAM mode to MONITOR or RUN mode). Storing Location of Error when an Error Occurs Program Check North Data Tracing Che	Power Supply Management	Power OFF Detect	ion Time Setting	AC power supply: 10 to 25 ms (variable)			
Number of Power Interruptions Counter The number of times power has been interrupted is counted.		Power OFF Detect	ion Delay Time				
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Debugging Debugging Data Tracing Data Tra	Function Bloc	eks		Standard programming can be encapsulated as function blocks.			
Debugging Data Tracing Data		Languages in Fund	ction Block Definitions				
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Debugging Data Tracing Data Tracing using CX-Programmer, which enable continuously logging the data by constantly uploading the trace data (trace data uploading during tracing). Data Tracing Data Tracing using CX-Programmer, which enable continuously logging the data by constantly uploading the trace data (trace data uploading the trace data on be uploaded during data tracing using CX-Programmer, which enable continuously logging the data by constantly uploading the trace data (trace data uploading the trace data (trace data uploading the trace data u		Force-Set/Reset		Specified bits can be set or reset.			
triggers can be set. • The trace data can be uploaded during data tracing using CX-Programmer, which enable continuously logging the data by constantly uploading the trace data (trace data uploadin during tracing). • Data tracing can be automatically started when operation is started (i.e., when the operatin mode is changed from PROGRAM mode to MONITOR or RUN mode). Storing Location 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 as		Differentiate Monit	oring				
Storing Location 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 a	Debugging	Data Tracing		 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). 			
Program Check		Storing Location of	of Error when an Error Occurs	,			
				The programs can be checked for items such as no END instruction and FALS/FAL errors at			

	Funct	lian.	Description
		lion	Description A function is provided to store predefined error codes in CPU Unit, error information, and time
	CPU Error Detection	- n	at which the error occurred. CPU Unit WDT errors are detected.
	CPO Elloi Detectio	JII	Errors can be generated for user-specified conditions: Non-fatal errors (FAL) and fatal errors
Self-	User-defined Failu	re Diagnosis	(FALS). Program section time diagnosis and program section logic diagnosis are supported (FPD instruction).
diagnosis and	Load OFF Functio	n	This function turns OFF all outputs from Output Units when an error occurs.
Restoration	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 Dete	ction	The time and logic of an instruction block can be analyzes using the FPD instruction.
	CPU Standby Dete	ection	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 erro	
		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	n This function detects the errors in Basic I/O Units.
		Backup Memory Error Detection	This function detects errors in the memory backup of the user programs and parameter area (backup memory).
		PLC Setup Error Detection	This function detects setting errors in the PLC Setup.
	Non-fatal Error Detection	CPU Bus Unit Error Detection	This function detects an error when there is an error in data exchange between the CPU Unit 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.
		Tag Memory Error Detection	This function detects errors in tag memory.
		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 Erro 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.
		Memory Error Detection	This function detects errors that occur in memory of the CPU Unit.
Self- diagnosis	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.
and Restoration (Continued from		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.
previous page)		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.
1.3.,		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 3.
		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 Erro 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.
		1	

Function				Description		
Self- diagnosis	System FALS Error Det (User-defined Fatal Error			This function generates a fatal (FALS) error when the user-defined conditions are met in program.		
and Restoration (Continued	Detection (Continued from	Version Error De	etection	This function detects an error when a user program includes a function that is not supported by the current unit version.		
from previous	previous page)	Memory Card Tr Detection	ransfer Error	This function detects an error when the automatic file transfer from Memory Card fails at startup.		
page)	Memory Self-resto	ration Function		This function performs a parity check on the user program area and self-restoration data.		
	Simple Backup Fu	nction		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 Serial Connection Via Networks		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).		
	Network			This function enables connecting the CX-Programmer online to a PLC that is connected via an EtherNet/IP network.		
	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.		
Casuritu	FINS Write Protect	ion		This function prohibits writing by using FINS commands sent over the network.		
Security	Unit Name Function	n		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	
CJ2H CPU Units	CJ2H-CPU6□-EIP	CPU: Unit version 1.0 EIP: Unit version 2.0	
CJ2FI CPU UIIIIS	CJ2H-CPU6LI-EIP	CPU: Unit version 1.1 EIP: Unit version 2.0	

Function Support by Unit Version

Unit Version 1.1 or Later

CX-Programmer version 8.02 or higher must be used to enable using the functions added for unit version 1.1.

Unit	CJ2H CPU Unit		
Model	CJ2H-CPU6⊟-EIP		
Unit version Item	Unit version 1.1	Unit version 1.0	
High-speed interrupt function Decreased overhead time for interrupt tasks Minimum interval setting of 0.1 ms for Scheduled Interrupt Task	Supported.	Not supported.	
Changing the minimum cycle time setting in MONITOR mode	Supported.	Not supported.	

Note: User programs that use functions of CJ2H CPU Units with unit version 1.1 or later cannot be used with CJ2H CPU Units with unit version 1.0 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 1.0, an error will be displayed and it will not be possible to download to the CPU Unit. If a program file (extension: .OBJ) that uses any of these functions is transferred to a CPU Unit with unit version 1.0, a program error will occur when operation starts or when the function starts and operation of the CPU Unit will stop.

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				Programming		
			Ver. 7.1 or lower	Ver. 8.0	Ver. 8.02 or higher	Console
CJ2H-CPU6□-EIP Unit version 1.0	Functions for unit version 1.0		-	OK (See note 1.)	ОК	
CJ2H-CPU6□-EIP Unit version 1.1	Functions added for unit version 1.1	Using new functions	-	-	OK (See note 2.)	(See note 4.)
		Not using new functions	-	OK (See note 3.)	OK	

Note: 1. CX-Programmer version 8.0 or higher is required to use CJ2H CPU Units (CJ2H-CPU6□-EIP).

- 2. CX-Programmer version 8.02 or higher is required to use the added functions in CJ2H CPU Units (CJ2H-CPU6□-EIP) with unit version 1.1.
- 3. 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.
- 4. A Programming Console cannot be used with a CJ2H CPU Unit.

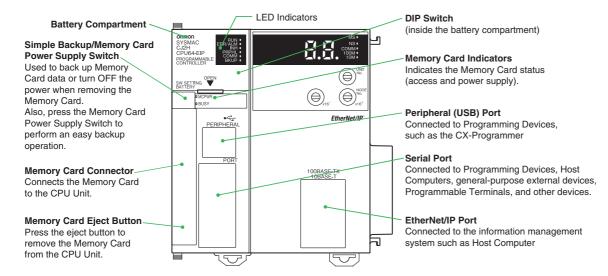
Device Type Setting

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. 4.0 or higher
CJ Series	CJ2H CPU Units	CJ2H-CPU6□-EIP	CJ2H

External Interface

A CJ2H CPU Unit (CJ2H-CPU6□-EIP) provides three communications ports for external interfaces: a peripheral (USB) port, a sirial port and an EtherNet/IP port.



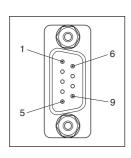
Peripheral (USB) Port

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	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 on the CPU Unit for anything but the NT-AL001-E Link Adapter. The external device or the CPU Unit may be damaged.

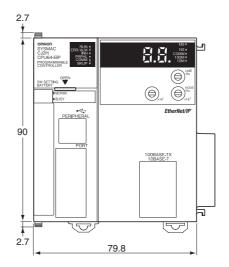
EtherNet/IP Port

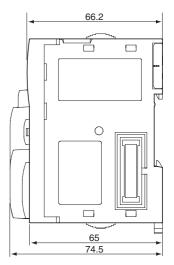
Item	Specification
Media Access Method	CSMA/CD
Modulation	Baseband
Transmission Paths	Star
Baud Rate	100 Mbps (100Base-TX)
Transmission Media	Shielded twisted-pair (STP) cable; Categories: 5, 5e
Transmission Distance	100 m (between hub and node)
Number of Cascade Connections	No restrictions if switching hub is used.
Communications	CIP Communications (tag data links, Explicit Messages). FINS communications

Dimensions (Unit: mm)

CJ2H CPU Unit CJ2H-CPU6□-EIP







Related Manuals

Cat. No.	Model	Manual	Application	Description	
W472	CJ2H-CPU6□-EIP CJ2H-CPU6□	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 Software User's Manual (W473).	
W473	CJ2H-CPU6□-EIP CJ2H-CPU6□	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 - CS1G/H-CPU - H CS1G/H-CPU - H CJ1G/H-CPU - H CJ1G-CPU - CJ1M-CPU - NSJ (B)-G5D NSJ (B)-M3D	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 CS1G/H-CPU -H CS1G/H-CPU -V1 CS1D-CPU -S CS1W-SCU -V1 CS1W-SCB -V1 CJ1H-CPU -H CJ1G-CPU -P CJ1M-CPU -C CJ1M-CPU -C CJ1W-SCU -V1 CP1H-X	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.	
W446		CX-Programmer Operation Manual			
W447	WS02-CX U-V Operation Manual Experience Blocks		Support Software for Windows computers CX-Programmer operating	Describes operating procedures for the CX-Programmer. Also refer to the <i>Software User's Manual</i> (W473) and <i>Instructions Reference Manual</i> (W474) when you do	
W469		CX-Programmer Operation Manual SFC Programming	procedure	programming.	
W464	CXONE-AL C-V CXONE-AL C-V	CS/CJ/CP/NSJ-series CX-Integrator Network Configuration Software Operation Manual	Network setup and monitoring	Describes the operating procedures for the CX-Integrator.	
W463	CXONE-AL C-V AL D-V	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.	

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