OMRON



» Fast programming with Function Blocks

» Flexible Ethernet connectivity

» Easy positioning functionality

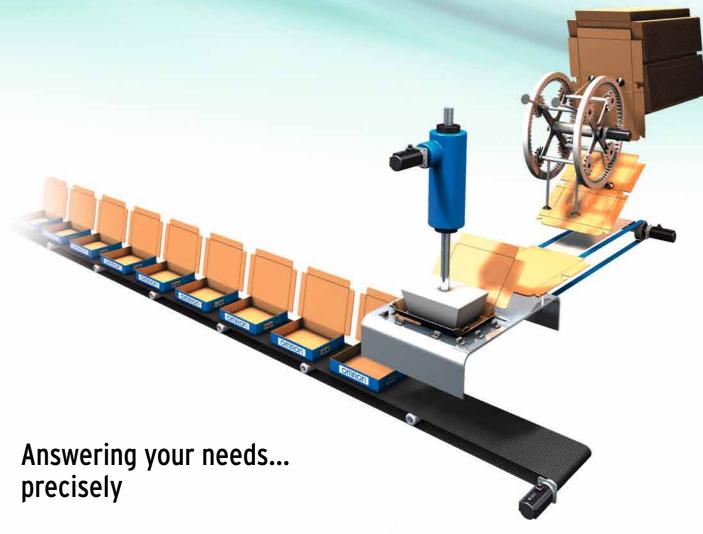
Think big... start small!

Omron's vast experience in the field of industrial automation has resulted in the creation of the right products for your applications, ranging from simple to more complex automation solutions. The CP1 family of programmable controllers provides you with a complete product line-up to automate compact machines and perform any other simple automation tasks, quickly and easily. Programming and operation are consistent with Omron's other modular Programmable controllers. And you are guaranteed the same high quality and reliability that you expect from any Omron product, ensuring that your equipment keeps on giving continuous dependable performance.

Scalable solution

The CP1 family is scalable; this means that you can choose the products with the right level of sophistication to meet your automation needs in terms of functionality, flexibility and pricing. Each of the CP1 family models, the CP1E, CP1L and CP1H, offers the functionality required for complete machine control. Benefits include: easy expansion of I/O, fast and versatile communication, and full positioning capabilities via ready-to-use Function Blocks. The CP1 family uses the same instruction set and professional programming software found in Omron's other modular Programmable controllers.





Fast and versatile communication

Flexible, fast and yet cost-effective communication is essential in today's competitive market. This applies in particular to compact Programmable controllers, which not only need to connect with devices inside the machine, but also outside the machine for operating, data-logging and remote access. With this in mind, Omron has given the CP1 family excellent communication capabilities for both serial and Ethernet networking. In addition, Omron provides flexible and economical option boards for serial communication.

Flexible Ethernet connectivity

To meet communication needs over different protocols simultaneously and to easily connect for remote access, our latest CP1L Programmable controller features embedded Ethernet with socket services functionality. This offers, among other things, programmable connectivity to third-party devices and makes this outstanding product the best-in-class machine controller on the market.

Easy positioning functions

The CP1 family is designed to fulfill position control tasks. Up to four axes of servo-drives can be controlled with high-speed pulse outputs, while high-speed pulse inputs can allow the connection of up to four encoders. Control is easily achieved with Function Block or standard functions without the need of specialist motion boards or expansion units. Furthermore, thanks to its fast serial ports, the CP1 family is also capable of performing simple positioning tasks. With the use of Modbus Function Blocks, up to 31 inverters can be controlled and monitored in real-time.

Easy positioning, quick results

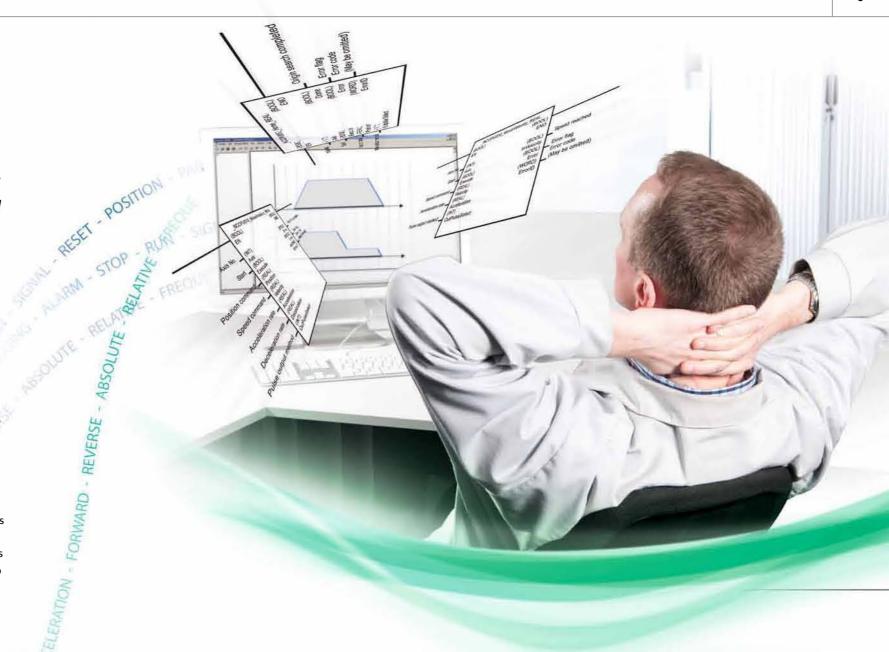
The CP1 family is the perfect choice for any application that requires positioning. Whether for conveyor control, point-to-point position control, or non-interpolated pick-and-place systems, the combination of high-speed pulse outputs, variable speed drive control and position feedback will provide all the functionality that you need for your application.

Ideal for position control

When simplicity and ease of use are essential, there is no better solution for your position applications than combining the CP1 family with servos and inverters from Omron's extensive range. The SmartStep 2 servo drive is a perfect partner and offers high performance while keeping things simple and cost effective. Omron provides standard functions and Function Blocks for SmartStep 2 and other servo drives to create your application with minimal effort.

Easy variable speed drive control

Variable speed drive control is made easy within the CP1 family by using the serial port(s) and the Easy Modbus Master feature for high-speed communication. Omron Function Blocks enable you to control and monitor up to 31 inverters in realtime simply by configuration of parameters. With the encoders connected to the high-speed counter inputs, the CP1 is able to calculate the exact position to perform accurate positioning easily and quickly. In addition, in the MX2 inverter series, all simple positioning is handled within the drive itself.



Saving you time

For many standard functions Omron provide ready-to-use and tested Function Blocks that allow you to reduce your programming and testing time. With Function Blocks you achieve faster, easier and more structured programming that can also increase machine functionality. Ladder programming still remains the easiest language for many people to use, but for more complex mathematical calculations 'Structured Text' (ST) offers greater flexibility. These languages are supported in the CP1L and CP1H. Omron's software is renowned for its ease of use and intuitive style and CX-One is no exception.

 \sim 7

Flexible Ethernet connectivity

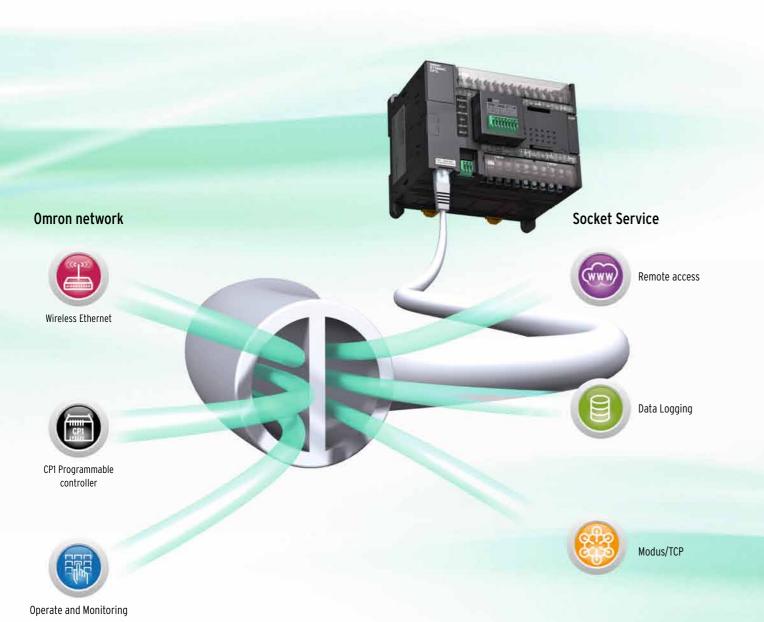
As simple and quick- as USB!

6

Thanks to the CP1L-EM's or CP1L-EL's Automatic-Connect function, programming over Ethernet is as simple as using USB on the other models in the CP1 family. This means that you don't need to waste time adjusting the Ethernet settings on the PC, but that you can simply plug and connect, just like USB. The Automatic-Connect function connects instantly over a default IP address to the CP1L, saving you valuable set-up time.

Versatile communication

Omron's CP1L Ethernet models are equipped as standard with Socket Services. This facilitates the easy exchange of data with other Ethernet devices supporting a dedicated protocol. The Socket Services reduce effort and simplify programming and allow Ethernet protocols to be used directly from your Programmable controller program. Ethernet can also be used for applications that require remote access functionality, such as a secure VPN connection with a standard router.



More options - greater possibilities!

More analog I/Os

In addition to the two standard embedded analog inputs, Omron's CP1L with embedded Ethernet also supports three new, optional analog I/O boards. These enable you to add extra analog inputs and outputs, and mixed inputs/outputs at minimum cost and without the need for more cabinet space. With its analog I/O modules, auto-tuning PID function, the CP1 is ideal for accurate process control.



CP1 family features at a glance

- 10 to 60 I/O base models, expandable to 320 I/O points
- Digital, analog and temperature sensor I/O expansion units
- 4 to 6 High-speed encoder inputs and
 2 to 4 high-speed pulse outputs
- Modbus Master feature for easy inverter or temperature control
- Analog I/O option boards and auto-tuning PID for accurate process control
- Optional boards for RS-232/RS-422/485/Ethernet or LCD display
- Ladder diagram, Function Block or Structured Text programming
- Powerful instructions common within Omron's modular Programmable controller series
- USB or Ethernet port no special cables needed
- No-Battery mode operation retains the program and data

Note: The functions that are supported depend on the model.

Maximize efficiency by selecting the optimum CPU unit for your applications

			THE PERSONNEL PROPERTY OF THE PERSONNEL PROP					THE STREET OF TH							
			CP1E												
			E-type					N-type							
			CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E		
			-E10D	-E14DR-A	-E20DR-A	-E30DR-A	-E40DR-A	-N14D	-N20D	-NA20D	-N30D	-N40D	-N60D		
/0	Digital	Inputs	6	8	12	18	24	8	12	12	18	24	36		
	Digital	Outputs	4	6	8	12	16	6	8	8	12	16	24		
	Remov	able Terminals	No					No							
	Total I/	O Capacity	10	14	20	150	160	14	20	140	150	160	180		
		Expansion Units	No			Yes (3 max.)		No		Yes (3 max.)					
						,				,					
	CJ-Series Special I/O		No					No							
	and CP	U Bus Units													
	Interrupt/Quick/		4 6					6							
	Counter Inputs														
		peed Counter	(10 kHz may)	6 (10 kHz max	(.)			2 (100 kHz max.) and							
	Inputs		(10 kHz max.)					4 (10 kHz ma	x.)						
	Pulse C	Outputs	No					2 axes (100 k	Hz max.)						
		stor outputs													
	models	only)													
	A														
	Analog (embed		No					No		2 inputs, 1 output	No				
	•	,	Yes (2)					Yes (2)		1 output					
	_	al Analog	No					No							
	Settings Input		INU	NO .				NO							
(resolution 1/256)															
Optional	Number of boards		0					0 1							
boards	suppor	ted													
		Communications	No	No					No Yes						
	(CP1W-CIF01/11/12)							No.							
	Etherne (CP1W-		No					No		Yes					
	LCD Di	,	No					No							
		-DAM01)	NO					NO							
	•	I/O boards	No					No							
CPU	_	mming port	USB					USB							
details		2C port (embedded						Yes (1)							
		on Blocks support						No							
		r diagrams or ST	NO					INU							
	language)														
		sing Speed	1.19 µs / Basic	instruction, 7.9	9 μs / Special ir	struction		1.19 µs / Bas	ic instruction, 7.	9 μs / Special in	struction				
	(minim														
	Prograi	m Capacity	2K steps					8K steps							
	Dot- !!	lomon.	Ol/ mords	do				QV words							
	Data M Capacit		2K words					8K words	ok words						
	-	y Cassette	No					No							
		-ME05M)	No					IVO							
	Real-Ti	me Clock	No					Yes (with opti	onal battery)						
	Battery	,	No					Optional (CP1	W-BAT01)						
	7-Segment Display		No				No	,							
		ver Supply	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E		
Outputs		. 1. Oupp.J	-E10DR-A	-E14DR-A	-E20DR-A	-E30DR-A	-E40DR-A	-N14DR-A	-N20DR-A	-NA20DR-A	-N30DR-A	-N40DR-A	-N60DR-A		
	DC Pov	ver Supply	CP1E	-	-	-	-	CP1E	CP1E	-	CP1E	CP1E	CP1E		
			-E10DR-D					-N14DR-D	-N20DR-D		-N30DR-D	-N40DR-D	-N60DR-D		
Transistor		AC Power Supply		-	-	-	-	CP1E	CP1E	-	CP1E	CP1E	CP1E		
Outputs	Type		-E10DT-A					-N14DT-A	-N20DT-A		-N30DT-A	-N40DT-A	-N60DT-A		
		DC Power Supply		-	-	-	-	CP1E	CP1E	CP1E	CP1E	CP1E	CP1E		
	Course	AC Downer Court	-E10DT-D					-N14DT-D	-N20DT-D	-NA20DT-D	-N30DT-D	-N40DT-D	-N60DT-D		
	Source Type	AC Power Supply	-E10DT1-A			-	-	CP1E -N14DT1-A	CP1E -N20DT1-A	-	CP1E -N30DT1-A	CP1E- N14DT1-A	CP1E -N60DT1-A		
	, , , , ,	DC Power Supply				_		CP1E	CP1E	CP1E	CP1E	CP1E	CP1E		
		2010Hor oupply	-E10DT1-D					-N14DT1-D	-N20DT1-D	-NA20DT1-D	-N30DT1-D	-N40DT1-D	-N60DT1-D		
Note: This	table is	a general overviev		ils refer to the (P1F datasheet	(Cat No P061)	CP1L datashee								







CP1L									CP1H			
L-type M-type							EM-type		<u> </u>			
CP1L	CP1L -L14D	CP1L	CP1L M30D	CP1L M40D	CP1L -M60D	EL-type CP1L -EL20D	CP1L -EM30D	CP1L -EM40D	CP1H -Y20DT-D	CP1H -X40D	CP1H -XA40D	
		12	18	24	36	12	18	24	12	24	24	
	6	8	12	16	24	8	12	16	8	16	16	
No			Yes			No	Yes		Yes			
10	54	60	150	160	180	60	150	160	300	320	320	
No	Yes (1 max.)		Yes (3 max.)			Yes (1 max.)	Yes (3 max.)		Yes (7 units or 15 output words	15 input words / s max.)		
No						No			Yes (2 max.)			
2	4	6				6			6	8		
4 (100 kHz max.)				4 (100 kHz max.)			2 (100 kHz max.) and 2 Line-driver (1 MHz)	nd driver			
2 axes (100 kHz max.)						2 axes (100 kHz	z max.)	2 (100 kHz max.) and 2 Line-driver (1 MHz)	4 axes (100 kHz max.)			
No						2 inputs			No		4 inputs, 2 outputs	
Yes (1)						No			Yes (1)			
Yes (0-10V)						No Yes (0-10V)						
0	1		2			1	2		2			
No Yes						Yes			Yes			
No Yes						No			Yes			
No	Yes					Yes			Yes			
No						Yes			No			
USB						Ethernet			USB			
No						No			No			
Yes						Yes			Yes			
0.55 μs / Basic i	0.55 μs / Basic instruction, 4.1 μs / Special instruction						instruction, 4.1 μ	Special instruction			µs /	
5K steps			10K steps			5K (+10K FB) steps 20K steps 20K steps						
10K words			32K words			10K words	32K words		32K words			
Yes						Yes			Yes			
Yes (C.H.W. DAT)	21)					Yes (C IIW DAT	'01\		Yes (C IIIW, DAT	01)		
Yes (CJ1W-BAT01) No					Yes (CJTW-BAT	(CJ1W-BAT01) Yes (CJ1W-BAT01) Yes						
	CP1L	CP1L	CP1L	CP1L	CP1L	- -	-	-	res	CP1H	CP1H	
	-L14DR-A		-M30DR-A	-M40DR-A	-M60DR-A					-X40DR-A	-XA40DR-A	
CP1L	CP1L -L14DR-D	CP1L	CP1L -M30DR-D	CP1L -M40DR-D	CP1L -M60DR-D	CP1L -EL20DR-D	CP1L -EM30DR-D	CP1L -EM40DR-D	-	-	-	
CP1L	CP1L -L14DT-A	-L20DT-A	CP1L -M30DT-A	CP1L -M40DT-A	CP1L -M60DT-A	-	-	-	-	-	-	
	CP1L -L14DT-D	CP1L -L20DT-D	CP1L -M30DT-D	CP1L -M40DT-D	CP1L -M60DT-D	CP1L -EL20DT-D	CP1L -EM30DT-D	CP1L -EM40DT-D	CP1H -Y20DT-D	CP1H -X40DT-D	CP1H -XA40DT-D	
-	-	-	-	-	-	-	-	-	-	-	-	
CP1L -L10DT1-D	CP1L -L14DT1-D	CP1L -L20DT1-D	CP1L -M30DT1-D	CP1L -M40DT1-D	CP1L -M60DT1-D	CP1L -EL20DT1-D	CP1L -EM30DT1-D	CP1L -EM40DT1-D	-	CP1H -X40DT1-D	CP1H -XA40DT1-D	

Expansion units

Expansion I/O Units



CP1W-8ED

DC inputs: 8

CP1W-8ER

Relay outputs: 8

CP1W-8ET

Transistor outputs (sinking): 8

CP1W-8ET1

Transistor outputs (sourcing): 8



CP1W-16ER

Relay outputs: 16

CP1W-16ET

Transistor outputs (sinking): 16

CP1W-16ET1

Transistor outputs (sourcing): 16

CP1W-20EDR1

DC inputs: 12 Relay outputs: 8



CP1W-20EDT

DC inputs: 12

Transistor outputs (sinking): 8

CP1W-20EDT1

DC inputs: 12

Transistor outputs (sourcing): 8

CP1W-32ER

Relay outputs: 32

CP1W-32ET

Transistor outputs (sinking): 32

CP1W-32ET1

Transistor outputs (sourcing): 32

CP1W-40EDR

DC inputs : 24 Relay outputs: 16

CP1W-40EDT

DC inputs: 24

Transistor outputs (sinking): 16

CP1W-40EDT1

DC inputs: 24

Transistor outputs (sourcing): 16

Analog I/O Units



Analog Input Unit

CP1W-AD041

Analog inputs: 4 (resolution: 6,000)

Analog Output Unit

CP1W-DA021

Analog outputs: 2 (resolution: 6,000)

CP1W-DA041

Analog outputs: 4 (resolution: 6,000)

Analog I/O Unit

CP1W-MAD11

Analog inputs: 2 (resolution: 6,000) Analog outputs: 1 (resolution: 6,000)

Temperature Sensor Unit



CP1W-TS001

Thermocouple inputs: 2

CP1W-TS002

Thermocouple inputs: 4

CP1W-TS101

Platinum-resistance thermometer inputs: 2

CP1W-TS102

Platinum-resistance thermometer inputs: 4

CompoBus/S I/O Link Unit



CP1W-SRT21

Inputs: 8 bits Outputs: 8 bits

Optional Boards



CP1W-CIF01 RS-232C (15 m max.)



CP1W-CIF11 RS-422A/485 (50 m max.)



CP1W-CIF12 RS-422A/485 (Isolated-type) (500 m max.)



CP1W-CIF41 Ethernet



CP1W-DAM01 Display 4 rows, 12 characters



CP1W-ADB21 Analog 2 inputs, 0-10 V, 0-20 mA



CP1W-DAB21V Analog 2 outputs, 0-10 V



CP1W-MAB221 Analog 2 inputs 0-10 V, 0-20 mA &

2 outputs 0-10 V

Memory Cassette



CP1W-ME05M 512K words

(upload/download program)

Battery Set



CJ1W-BAT01 (for CP1L/CP1H)



CP1W-BAT01 (for CP1E)

CJ Unit Adapter



CP1W-EXT01

CJ Unit adapter for use with CP1H. Includes CJ endplate.

I/O Connecting Cable



CP1W-CN811 Length: 80 cm

CP1W Expansion Units include I/O Connection Cables (in lengths of approx. 6 cm) for side-by-side

Note: This table is a general overview only. For details, refer to the CP1E datasheet (Cat. No. P061), CP1L datasheet (Cat. No. P081) or CP1H datasheet (Cat. No. P080).

Software

The CX-One is a comprehensive software package that integrates Support Software for OMRON PLCs and components. CX-One Ver. $4.\Box$ includes CX-Programmer Ver. $9.\Box$.

CX-One Lite is a subset of the complete CX-One package that provides only the Support Software required for micro PLC applications. CX-One Lite Ver. 4. \square includes Micro PLC (the CP1 family) Edition CX-Programmer Ver. 9. \square .

Note 1: The CX-One and CX-One Lite cannot be simultaneously installed on the same computer.

Note 2: This section is a general overview only. For details, refer to the CX-One Catalog (No. R134).

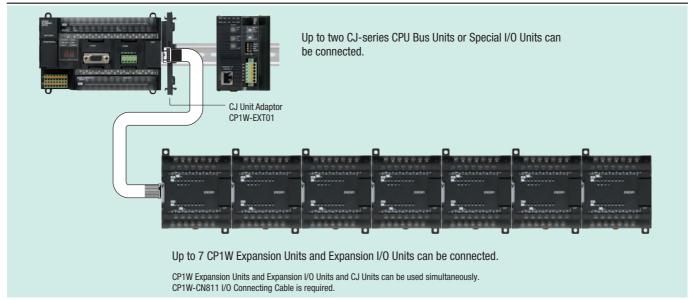
		Media	Order code
FA Integrated Tool Package CX-One Ver.4.□	Single user licence*1	DVD*2	CXONE-AL01D-V4
FA Integrated Tool Package CX-One Lite Ver.4.□	Single user licence	CD	CXONE-LT01C-V4

^{*1} Multi licenses are available for the CX-One (3, 10, 30, or 50 licenses).

CX-One supported OS: Windows 7, Windows Vista® or Windows XP (SP3 or higher).

Except for Windows XP 64-bit version.

Using CJ-series units and CP1W units with the CP1H



CJ-Series Units for use with CP1H

Description	Unit Name	Model	Description	Unit Name	Model
Analog I/O and Control Units	Universal Analog Input Unit	CJ1W-AD04U	Motion/Position	Position Control Units	CJ1W-NC113
	Analog Input Unit	CJ1W-AD041-V1	Control Units		CJ1W-NC133
		CJ1W-AD042			CJ1W-NC213
		CJ1W-AD081-V1			CJ1W-NC233
	Analog Output Unit	CJ1W-DA021			CJ1W-NC413
		CJ1W-DA041			CJ1W-NC433
		CJ1W-DA042V		MECHATROLINK-II Position Control Unit	CJ1W-NCF71
		CJ1W-DA08V			CJ1W-NCF71-MA
		CJ1W-DA08C			CJ1W-NC271
	Analog Input/Output Unit	CJ1W-MAD42			CJ1W-NC471
	Universal Analog Input Unit	CJ1W-PH41U		MECHATROLINK-II Motion Control Unit	CJ1W-MCH71
	Process Input Unit	CJ1W-PDC15	Communication	Serial Communication Units	CJ1W-SCU21-V1
	Thermocouple Input Unit	CJ1W-PTS15	Units		CJ1W-SCU22
		CJ1W-PTS51			CJ1W-SCU31-V1
	Resistance Thermometer Input Unit	CJ1W-PTS16			CJ1W-SCU32
		CJ1W-PTS52			CJ1W-SCU41-V1
	Temperature Control Loops,	CJ1W-TC001			CJ1W-SCU42
	Thermocouple Unit	CJ1W-TC002		Ethernet Unit	CJ1W-ETN21
		CJ1W-TC003		EtherNet/IP Unit	CJ1W-EIP21
		CJ1W-TC004		FL-net Ethernet Unit	CJ1W-FLN22
	Temperature Control Loops, RTD	CJ1W-TC101		High-speed Data Storage Unit	CJ1W-SPU01-V2
		CJ1W-TC102		DeviceNet Master Unit	CJ1W-DRM21
		CJ1W-TC103		CompoNet Master Unit	CJ1W-CRM21
		CJ1W-TC104		CompoBus/S Master Unit	CJ1W-SRM21
Motion/Position Control Units	High Speed Counter Unit	CJ1W-CT021		Controller Link Unit	CJ1W-CLK23
			Control Units	RFID Sensor Controller Unit	CJ1W-V680C11
					CJ1W-V680C12
					CJ1W-V600C11
					CJ1W-V600C12

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^{*2} The CX-One is also available on CD (CXONE-AL□□C-V4).

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and OWNOWS exclusive wait aftire is that the products are the front necessit in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR

- The application examples provided in this catalog are for reference only. Check functions and safety of the equipment before use.

 Never use the products for any application requiring special safety requirements, such as nuclear
- energy control systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, or other application involving serious risk to life or property, without ensuring that the system as a whole has been designed to address the risks, and that the OMRON products are properly rated and installed for the intended use within the overall equipment or system.

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

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Authorized Distributor:

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Cat. No. P082-E1-01

0312-(0405)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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