

# CPM2C Ordering Information

## International Standards

The products shown in the attached tables are those that conform to the UL, CSA, cULus, cUL, NK, Lloyd's Register, and EC Directives as of September 2003.

(U: UL, C: CSA, UC: cULus, CU: cUL, N: NK, L: Lloyd, CE: EC Directives)

Please contact OMRON representative for application conditions.

## CPM2C CPU Units

CPU Unit	Inputs	Outputs	Internal clock	Model	Standards	
Units with 10 I/O points Inputs: 6 Outputs: 4	I/O terminal block	6 inputs (24 V DC)	4 relay outputs	---	CPM2C-10CDR-D	U, C, CE
				Yes	CPM2C-10C1DR-D	
Units with 10 I/O points Inputs: 6 Outputs: 4	2 Fujitsu connectors	6 inputs (24 V DC)	4 sinking transistor outputs	---	CPM2C-10CDTC-D	U, C, CE
			4 sourcing transistor outputs	---	CPM2C-10CDT1C-D	
			4 sinking transistor outputs	Yes	CPM2C-10C1DT1C-D	
			4 sourcing transistor outputs	Yes	CPM2C-10C1DT1M-D	
	2 MIL connectors	6 inputs (24 V DC)	4 sinking transistor outputs	---	CPM2C-10CDTM-D	U, C, CE
			4 sinking transistor outputs	Yes	CPM2C-10C1DTM-D	
			4 sourcing transistor outputs	---	CPM2C-10CDT1M-D	
			4 sourcing transistor outputs	Yes	CPM2C-10C1DT1M-D	
Units with 20 I/O points Inputs: 12 Outputs: 8	2 terminal blocks	12 inputs (24 V DC)	8 relays	---	CPM2C-20CDR-D	U, C, CE
			8 sinking transistor outputs	---	CPM2C-20CDTC-D	
			8 sourcing transistor outputs	---	CPM2C-20CDT1C-D	
			8 sourcing transistor outputs	Yes	CPM2C-20C1DT1C-D	
	2 Fujitsu connectors	12 inputs (24 V DC)	8 sinking transistor outputs	---	CPM2C-20CDTM-D	U, C, CE
			8 sinking transistor outputs	Yes	CPM2C-20C1DTM-D	
			8 sourcing transistor outputs	---	CPM2C-20CDT1M-D	
			8 sourcing transistor outputs	Yes	CPM2C-20C1DT1M-D	
Units with 32 I/O points Inputs: 16 Outputs: 16	2 Fujitsu connectors	16 inputs (24 V DC)	16 sinking transistor outputs	---	CPM2C-32CDTC-D	U, C, CE
			16 sourcing transistor outputs	---	CPM2C-32CDT1C-D	
	2 MIL connectors	16 inputs (24 V DC)	16 sinking transistor outputs	---	CPM2C-32CDTM-D	U, C, CE
			16 sourcing transistor outputs	---	CPM2C-32CDT1M-D	
Programmable Slave with DeviceNet slave and CompoBus/S Master, 10 I/O points Inputs: 6 Outputs: 4	1 Fujitsu connector	6 inputs (24 V DC)	4 sinking transistor outputs	Yes	CPM2C-S100C-DRT	U, C, CE
			4 sourcing transistor outputs	Yes	CPM2C-S110C-DRT	
Units with CompoBus/S Master, 10 I/O points Inputs: 6 Outputs: 4	1 Fujitsu connector	6 inputs (24 V DC)	4 sinking transistor outputs	Yes	CPM2C-S100C	U, C, CE
			4 sourcing transistor outputs	Yes	CPM2C-S110C	

## Power Supply Unit

Unit	Input	Output	Model	Standards
AC Power Supply Unit	100 to 240 V AC	24 V DC/600 mA	CPM2C-PA201	U, C, CE

## Expansion I/O Units

Expansion I/O Unit	Inputs	Outputs	Model	Standards	
Units with inputs only Inputs: 8	1 Fujitsu connector	8 inputs (24 V DC)	---	CPM2C-8EDC	U, C, CE
	1 MIL connector	8 inputs (24 V DC)	---	CPM2C-8EDM	
Units with inputs only Inputs: 16	1 Fujitsu connector	16 inputs (24 V DC)	---	CPM2C-16EDC	U, C, CE
	1 MIL connector	16 inputs (24 V DC)	---	CPM2C-16EDM	
Units with relay outputs only Outputs: 8	I/O terminal block	---	8 relay outputs	CPM2C-8ER	U, C, CE
			8 sinking transistor outputs	CPM2C-8ETC	
	1 Fujitsu connector	---	8 sourcing transistor outputs	CPM2C-8ET1C	U, C, CE
			8 sinking transistor outputs	CPM2C-8ETM	
1 MIL connector	---	8 sourcing transistor outputs	CPM2C-8ET1M	U, C, CE	
		8 sinking transistor outputs	CPM2C-8ETM		
Units with transistor outputs only Outputs: 8	1 Fujitsu connector	---	16 sinking transistor outputs	CPM2C-16ETC	U, C, CE
			16 sourcing transistor outputs	CPM2C-16ET1C	
	1 MIL connector	---	16 sinking transistor outputs	CPM2C-16ETM	U, C, CE
			16 sourcing transistor outputs	CPM2C-16ET1M	
Units with 10 I/O points Inputs: 6 Outputs: 4	1 I/O terminal block	6 inputs (24 V DC)	4 relay outputs	CPM2C-10EDR	U, C, CE

Expansion I/O Unit		Inputs	Outputs	Model	Standards
Units with 20 I/O points	1 I/O terminal block	12 inputs (24 V DC)	8 relay outputs	CPM2C-20EDR	U, C, CE
Inputs: 12 Outputs: 8					
Units with 24 I/O points	2 Fujitsu connectors	16 inputs (24 V DC)	8 sinking transistor outputs	CPM2C-24EDTC	U, C, CE
	2 MIL connectors	16 inputs (24 V DC)	8 sourcing transistor outputs	CPM2C-24EDT1	U, C, CE
Inputs: 16 Outputs: 8			8 sinking transistor outputs	CPM2C-24EDTM	U, C, CE
			8 sourcing transistor outputs	CPM2C-24EDT1M	U, C, CE
Units with 32 I/O points	2 Fujitsu connectors	16 inputs (24 V DC)	16 sinking transistor outputs	CPM2C-32EDTC	U, C, CE
	2 MIL connectors	16 inputs (24 V DC)	16 sourcing transistor outputs	CPM2C-32EDT1C	U, C, CE
Inputs: 16 Outputs: 16			16 sinking transistor outputs	CPM2C-32EDTM	U, C, CE
			16 sourcing transistor outputs	CPM2C-32EDT1M	U, C, CE

### Analog I/O Units

Product	Specifications	Model	Standards
Analog I/O Unit	2 analog inputs and 1 analog output	CPM2C-MAD11	CE

### Temperature Sensor Unit

Product	Specifications	Model	Standards
Temperature Sensor Unit	2 inputs for thermocouples	CPM2C-TS001	CE
	2 inputs for temperature resistance thermometers	CPM2C-TS101	

### CompoBus/S I/O Link Units

Product	Specifications	Model	Standards
CompoBus/S I/O Link Units	I/O Links: 8 inputs, 8 outputs	CPM2C-SRT21	CE

### I/O Connectors

(Connectors are not provided with CPU Unit. Select the appropriate ones from the following table. One CPU Unit requires two sets of Connectors.)

#### Fujitsu Connectors

Connection method	From OMRON		From Fujitsu
Soldered	C500-CE241	1 set	FCN-361J024-AUConnector FCN-360C024-J2Connector Cover
Crimped	C500-CE242		FCN-363J024Housing FCN-363J-AUCContacts FCN-360C024-J2Connector Cover
Pressure-welded	C500-CE243		FCN-367J024-AU/F

#### MIL Connectors

Connection method	Model	Number in box	Specifications
Pressure-welded	XG4M-2030-T	100	Poles: 20

**Note:** Any commercially available 20-pole (IDC) connectors, according to MIL-C-83503, DIN 41651 or IEC 60603-1 specification, can be used.

### Programming Consoles and Cables

Product	Model	Standards	
Programming Console (2-m cable attached)	CQM1-PRO01-E	U, C, CE, N	
Programming Console (Requires separate cable. See below.)	C200H-PRO27-E	U, C, N, CE	
Connecting Cable for connecting CQM1-PRO01-E to a peripheral port	CS1W-CN114	CE	
Connecting Cable for C200H-PRO27-E	2-m cable	C200H-CN222	N
	4-m cable	C200H-CN422	---
Connecting Cable for C200H-PRO27-E allowing direct connection to the CPM2C CPU Unit	2-m cable	CS1W-CN224	CE
	6-m cable	CS1W-CN624	CE

### Support Software

Product	Functions	Model	Standards
CX-One	Omron's integrated software for programming and configuration of all control system components, including PLCs, HMI, drives, temperature controllers and advanced sensors.	CX-ONE-AL□□C-E* <sup>1</sup>	---

\*1 □□ = Number of licenses (01, 03, 10)

Product	Model	Standards
Expansion Memory Unit	CPM1-EMU01-V1	---
EEPROM (256 K)	EEROM-JD	---

Peripheral Port Adapters and Connecting Cables

Description		Computer port	Length	Model	Standards
Personal Computer Connecting Cables	Peripheral Port Cable	For a D-sub 9-pin port	2 m	CS1W-CN226	CE
			6 m	CS1W-CN626	CE
			3.3 m	CQM1-CIF02	U, C, N, L, CE
			0.05 m	CS1W-CN114	CE

RS-232C Cables

Product	Computer port	Specifications	Length	Model	Standards
RS-232C Cable	For a D-sub 9-pin port	Can be used with a peripheral bus or Host Link. Uses connector that prevents ESD (electrostatic discharge.)	2 m	XW2Z-200S-V	---
			5 m	XW2Z-500S-V	---
			2 m	XW2Z-200S-CV	---
			5 m	XW2Z-500S-CV	---

Communications Port Connecting Cables

Description	Cable length	Model	Standards
Converts to a Peripheral port and RS-232C port.	0.1 m (about 4")	CPM2C-CN111	CE
Converts to a Peripheral port only.	0.05 m (about 2")	CS1W-CN114	CE
Converts to an RS-232C port only.	0.1 m (about 4")	CS1W-CN118	CE

Simple Communications Unit

Product	Specifications	Model	Standards
Simple Communications Unit	RS-485/RS-232C ports for connection to components	CPM2C-CIF21	U, C, CE

Adapters

Product	Function	Model	Standards
Peripheral/RS 232C Adapter Unit	Peripheral port level conversion	CPM2C-CIF01-V1	---
RS-422/RS-485/RS-232C Adapter Unit		CPM2C-CIF11	U, C, CE
Link Adapter	RS-232C to RS-422A conversion	3G2A9-AL004-E	---
RS-422A Adapter		NT-AL001	---

Battery

Product	Function	Model	Standards
Battery	Backs up memory in the CPM2C CPU Unit.	CPM2C-BAT01	CE

I/O Terminal Blocks and Connecting Cables

Product	Description	No. of inputs/outputs	Model	Comments
I/O Terminal Blocks	Slim type with M3 slotted screw terminal block	20	XW2D-20G6	For more information refer to "Wiring Systems" on page 384
	Flat cable connector with M2.5 slotted screw terminal block	20	XW2B-20G4	
Common terminals (3-tier inputs)	---		XW2E-20G5-IN16	
Common terminals (2-tier outputs)	---		XW2C-20G6-IO16	

Product	Cable length	Model	Comments	
Special Connecting Cable	With Fujitsu connector	0.5 m	XW2Z-050A	For more information refer to "Wiring Systems" on page 384
		1 m	XW2Z-100A	
		1.5 m	XW2Z-150A	
		2 m	XW2Z-200A	
		3 m	XW2Z-300A	
		5 m	XW2Z-500A	
	With MIL connector	2.5 m	G79-025C	
		5 m	G79-050C	

Relay I/O Terminals and Connecting Cables

Product	Mounted relay	I/O points	Processing	Rated voltage	Model	Standards	Output	Fujitsu connector	MIL connector
Relay I/O terminals	G7TC	16 inputs	NPN (– common)	24 V DC	G7TC-ID16	---	---	G79-□00C	G79-O□00C
				100 (110) V AC	G7TC-IA16			G79-□00C	G79-O□00C
				200 (220) V AC				G79-□00C	G79-O□00C
		16 outputs	NPN (+ common, sinking output)	24 V DC	G7TC-OC16		Sink	G79-□00C	G79-O□00C
	16 outputs	PNP (– common, sourcing output)	24 V DC	G7TC-OC16-1		Source	G79-□00C	G79-O□00C	
	8 outputs	NPN (+ common, sinking output)	24 V DC	G7TC-OC08	---	Sink	G79-□00C	G79-O□00C	
	G6D	16 outputs	NPN (+ common, sinking output)	24 V DC	G70D-SOC16	---	Sink	G79-□00C	G79-O□00C
			PNP (– common, sourcing output)	24 V DC	G70D-SOC16-1	---	Source		G79-□00C
	G3DZ (Power MOSFET Relay)	16 outputs	NPN (+ common, sinking output)	24 V DC	G70D-FOM16	---	Sink	G79-□00C	G79-O□00C
			PNP (– common, sourcing output)	24 V DC	G70D-FOM16-1	---	Source		G79-□00C
	G6D	16 outputs	NPN (+ common, sinking output)	24 V DC	G70D-VSOC16	---	Sink	G79-□00C	G79-O□00C
	G3DZ (Power MOSFET Relay)	16 outputs	NPN (+ common, sinking output)	24 V DC	G70D-VFOM16	---	Sink	G79-□00C	G79-O□00C
			NPN (+ common, sinking output)	24 V DC	G70A-ZOC16-3	---	Sink	G79-□00C	G79-O□00C
	(Sold separately) G2R G3R G3RN H3RN	16 outputs	PNP (– common, sourcing output)	24 V DC	G70A-ZOC16-4	---	Source	---	G79-□00C

Product	Cable length	Model	Comments
Connecting Cable with connector (1:1)	With Fujitsu connector	1 m	G79-100C
		1.5 m	G79-150C
		2 m	G79-200C
		3 m	G79-300C
		5 m	G79-500C
	With MIL connector	0.25 m	G79-O25C
		5 m	G79-O50C
		0.25 m	G79-I25C
		0.5 m	G79-I50C

DC Power Supplies

Product	Output voltage/current	Input voltage	Model	Standards
DC Power Supply (3 W)	24 V DC, 0.13 A	85 V AC to 264 V AC	S82K-00324	U, C
DC Power Supply (7.5 W)	24 V DC, 0.3 A	85 V AC to 264 V AC	S82K-00724	U, C
DC Power Supply (15 W)	24 V DC, 0.6 A	85 V AC to 264 V AC	S82K-01524	U, C
DC Power Supply (30 W)	24 V DC, 1.3 A	85 V AC to 264 V AC	S82K-03024	U, C
DC Power Supply (50 W)	24 V DC, 2.1 A	85 V AC to 264 V AC	S82K-05024	U, C

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.  
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.