

NO: PC-416
DATE: April 2021

PRODUCT: CP1E
TYPE: Discontinuation Notice

Discontinuation and Replacement of CP1E CPU Units with the CP2E

The CP1E small controller CPU units will be discontinued end the end of February 2022. The replacement CP2E product line was released in 2019 and in most cases is a form, fit and function replacement. The CP2E also adds new features such as up to 2 Ethernet ports and a total of 5 communication channels of Ethernet, RS232/422/485 as well as analog option boards and function blocks.. The CP1E will be supported technically and for repair until the end of March 2029. Users will be able to open their CP1E program in CX-ONE or CX-ONE lite V 4.51 or above and convert the program for the new CP2E.



Product Discontinuation

CP1E CPU units

Model CP1E-E14[]-A
Model CP1E-E20[]-A
Model CP1E-E30[]-A
Model CP1E-E40[]-A
Model CP1E-E60[]-A
Model CP1E-N30S[]-[]
Model CP1E-N40S[]-[]
Model CP1E-N60S[]-[]
Model CP1E-N14D[]-[]
Model CP1E-N20D[]-[]
Model CP1E-N30D[]-[]
Model CP1E-N40D[]-[]
Model CP1E-N60D[]-[]



Recommended Replacement

CP2E CPU units

Model CP2E-E14[]-A
Model CP2E-E20[]-A
Model CP2E-E30[]-A
Model CP2E-E40[]-A
Model CP2E-E60[]-A
Model CP2E-S30D[]-[]
Model CP2E-S40D[]-[]
Model CP2E-S60D[]-[]
Model CP2E-N14D[]-[]
Model CP2E-N20D[]-[]
Model CP2E-N30D[]-[]
Model CP2E-N40D[]-[]
Model CP2E-N60D[]-[]

Final order entry date

The end of February 2022

Final Shipment date

End of June 2022.

The CP1E will be supported through the end of March 2029

Differences/Similarities

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
Model CP2E	**	*	*	**	*	*	*

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
CP1E-E14DR-A	CP2E-E14DR-A
CP1E-E14SDR-A	CP2E-E14DR-A
CP1E-E20DR-A	CP2E-E20DR-A
CP1E-E20SDR-A	CP2E-E20DR-A
CP1E-E30DR-A	CP2E-E30DR-A
CP1E-E30SDR-A	CP2E-E30DR-A
CP1E-E40DR-A	CP2E-E40DR-A
CP1E-E40SDR-A	CP2E-E40DR-A
CP1E-E60SDR-A	CP2E-E60DR-A
CP1E-N30S1DR-A	CP2E-S30DR-A
CP1E-N30S1DT-D	CP2E-S30DT-D
CP1E-N30S1DT1-D	CP2E-S30DT1-D
CP1E-N30SDR-A	CP2E-S30DR-A
CP1E-N30SDT-D	CP2E-S30DT-D
CP1E-N30SDT1-D	CP2E-S30DT1-D
CP1E-N40S1DR-A	CP2E-S40DR-A

Product discontinuation	Recommended replacement
CP1E-N40S1DT-D	CP2E-S40DT-D
CP1E-N40S1DT1-D	CP2E-S40DT1-D
CP1E-N40SDR-A	CP2E-S40DR-A
CP1E-N40SDT-D	CP2E-S40DT-D
CP1E-N40SDT1-D	CP2E-S40DT1-D
CP1E-N60S1DR-A	CP2E-S60DR-A
CP1E-N60S1DT-D	CP2E-S60DT-D
CP1E-N60S1DT1-D	CP2E-S60DT1-D
CP1E-N60SDR-A	CP2E-S60DR-A
CP1E-N60SDT-D	CP2E-S60DT-D
CP1E-N60SDT1-D	CP2E-S60DT1-D
CP1E-N14DR-A	CP2E-N14DR-A
CP1E-N14DR-D	CP2E-N14DR-D
CP1E-N14DT-A	CP2E-N14DT-A
CP1E-N14DT-D	CP2E-N14DT-D
CP1E-N14DT1-A	CP2E-N14DT1-D
CP1E-N14DT1-D	CP2E-N14DT1-D
CP1E-N20DR-A	CP2E-N20DR-A
CP1E-N20DR-D	CP2E-N20DR-D
CP1E-N20DT-A	CP2E-N20DT-A
CP1E-N20DT-D	CP2E-N20DT-D
CP1E-N20DT1-A	CP2E-N20DT1-D
CP1E-N20DT1-D	CP2E-N20DT1-D
CP1E-N30DR-A	CP2E-N30DR-A
CP1E-N30DR-D	CP2E-N30DR-D
CP1E-N30DT-A	CP2E-N30DT-A
CP1E-N30DT-D	CP2E-N30DT-D
CP1E-N30DT1-A	CP2E-N30DT1-D
CP1E-N30DT1-D	CP2E-N30DT1-D
CP1E-N40DR-A	CP2E-N40DR-A
CP1E-N40DR-D	CP2E-N40DR-D
CP1E-N40DT-A	CP2E-N40DT-A
CP1E-N40DT-D	CP2E-N40DT-D
CP1E-N40DT1-A	CP2E-N40DT1-D
CP1E-N40DT1-D	CP2E-N40DT1-D
CP1E-N60DR-A	CP2E-N60DR-A
CP1E-N60DR-D	CP2E-N60DR-D
CP1E-N60DT-A	CP2E-N60DT-A
CP1E-N60DT-D	CP2E-N60DT-D
CP1E-N60DT1-A	CP2E-N60DT1-D
CP1E-N60DT1-D	CP2E-N60DT1-D

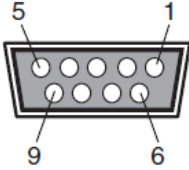
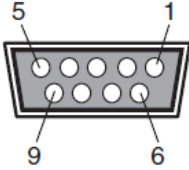


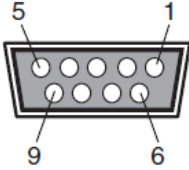

Dimensions

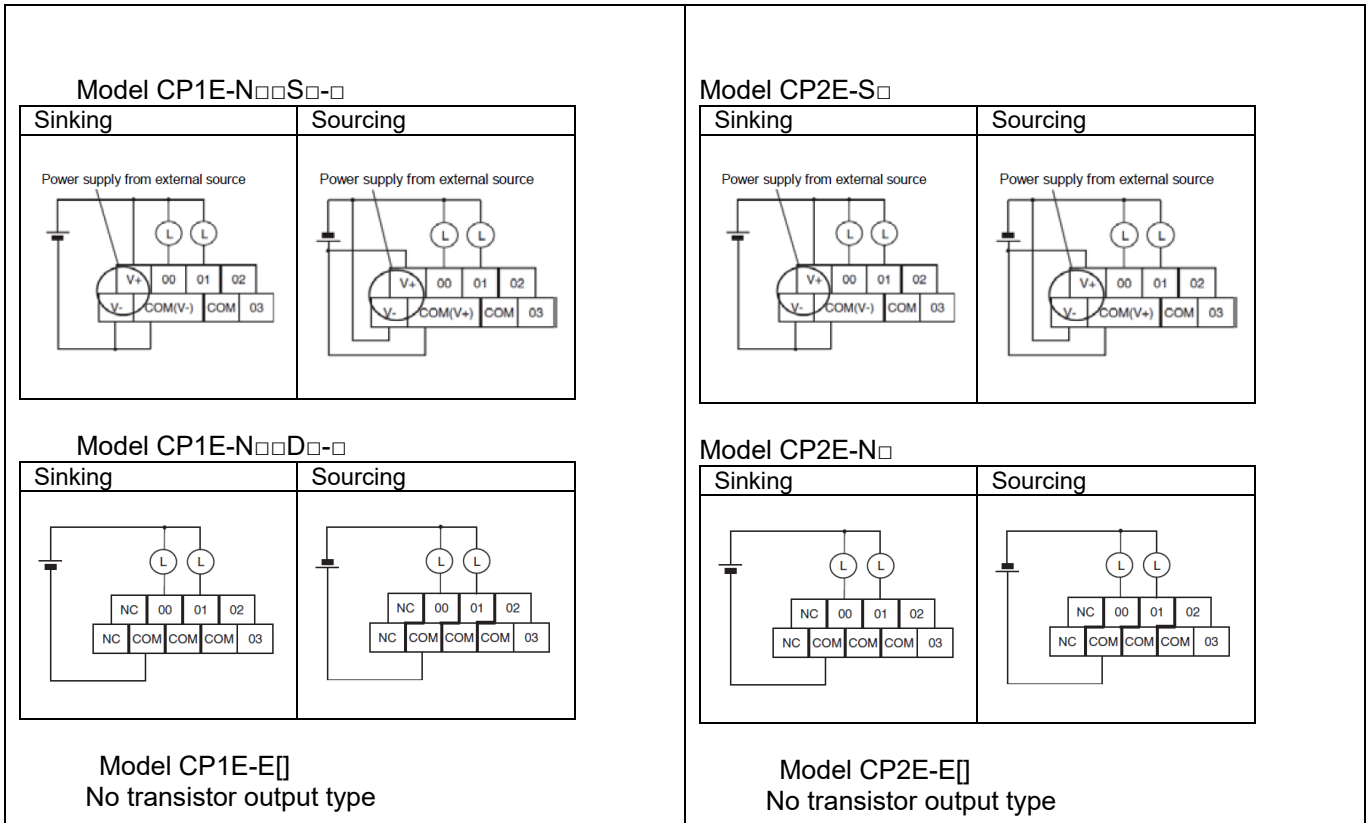
Product Discontinuation Model CP1E			Recommended Replacement Model CP2E	
I/O points	Dimension (W X H X D)		I/O points	Dimension (W X H X D)
	形 CP1E-E□□DR-A 形 CP1E-N□□D□—□	形 CP1E-E□□SDR-A 形 CP1E-N□□S□—□		Model CP2E
14	86X90×85	86×90×79	14	86×90×80
20	86X90×85	86×90×79	20	86×90×80
30	130X90×85	130×90×79	30	130×90×80
40	150X90×85	150×90×79	40	150×90×80
60	195X90×85	195×90×79	60	195×90×80

CX-ONE program connection

Product Discontinuation Model CP1E	Recommended Replacement Model CP2E
CX-Programmer connection i/f USB	CX-Programmer connection i/f Model CP2E-E□/CP2E-S□: USB Model CP2E-N□: Ethernet

Communications port and I/O wiring connections

Product Discontinuation Model CP1E	Recommended Replacement Model CP2E																																																						
CX-Programmer connection i/f USB	CX-Programmer connection i/f Model CP2E-E□/CP2E-S□: USB Model CP2E-N□: Ethernet																																																						
Built-in RS-232C port Model CP1E-N□ <table border="1"> <thead> <tr> <th rowspan="2">D-sub connector</th> <th rowspan="2">Pin No.</th> <th colspan="2">Signal name</th> </tr> <tr> <th>CP1E-N□□S□-□</th> <th>CP1E-N□□D□-□</th> </tr> </thead> <tbody> <tr> <td rowspan="9">  </td> <td>1</td> <td>FG</td> <td>FG</td> </tr> <tr> <td>2</td> <td>SD(TXD)</td> <td>SD(TXD)</td> </tr> <tr> <td>3</td> <td>RD(RXD)</td> <td>RD(RXD)</td> </tr> <tr> <td>4</td> <td>RS(RTS)</td> <td>RS(RTS)</td> </tr> <tr> <td>5</td> <td>CS(CTS)</td> <td>CS(CTS)</td> </tr> <tr> <td>6</td> <td>5V</td> <td>5V</td> </tr> <tr> <td>7</td> <td>-</td> <td>DR(DSR)</td> </tr> <tr> <td>8</td> <td>-</td> <td>ER(DTR)</td> </tr> <tr> <td>9</td> <td>SG(0V)</td> <td>SG(0V)</td> </tr> <tr> <td>シエル</td> <td></td> <td>FG</td> <td>FG</td> </tr> </tbody> </table>	D-sub connector	Pin No.	Signal name		CP1E-N□□S□-□	CP1E-N□□D□-□		1	FG	FG	2	SD(TXD)	SD(TXD)	3	RD(RXD)	RD(RXD)	4	RS(RTS)	RS(RTS)	5	CS(CTS)	CS(CTS)	6	5V	5V	7	-	DR(DSR)	8	-	ER(DTR)	9	SG(0V)	SG(0V)	シエル		FG	FG	Built-in RS-232C port Model CP2E-S□ <table border="1"> <thead> <tr> <th>Terminal block</th> <th>Pin No.</th> <th>Signal name</th> </tr> </thead> <tbody> <tr> <td rowspan="6">  </td> <td>1</td> <td>SD(TXD)</td> </tr> <tr> <td>2</td> <td>RD(RXD)</td> </tr> <tr> <td>3</td> <td>RS(RTS)</td> </tr> <tr> <td>4</td> <td>CS(CTS)</td> </tr> <tr> <td>5</td> <td>SG(0V)</td> </tr> <tr> <td>6</td> <td>FG</td> </tr> </tbody> </table> <p>Model CP2E-N□</p> <p>There are no built-in RS232C port. To connect HMI etc. Could you use Ethernet connection or RS232C option board (ModelCP1W-CIF01). Pin.No of ModelCP1W-CIF01 is same as D-sub connector of CP1E-N□□D□-□.</p>	Terminal block	Pin No.	Signal name		1	SD(TXD)	2	RD(RXD)	3	RS(RTS)	4	CS(CTS)	5	SG(0V)	6	FG
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Transistor output	Transistor output Depending on the model used for replacement, some wiring may need to be changed. From Model CP1E-N□□D□-□ to Model CP2E-S□																																																						



CX-ONE program connection method

Product Discontinuation Model CP1E	Recommended Replacement Model CP2E
CX-Programmer operation for online USB connection	CX-Programmer operation for online Model CP2E-E□/CP2E-S□ : Not change Model CP2E-N□ : An online connection between the CX-Programmer and the CP2E by Ethernet connection.
	Refer to Section 4 Programming Device in the CP2E CPU Unit Hardware User's Manual (Cat.No. W613) for the connection method with the CP2E.

Specifications in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.