

Product Discontinuation Notice

Programmable Multi-Axis Controller (PMAC)

Issue Date
March 31, 2023

20230323_DOP_00002

For over 20 years, the Turbo PMAC family and other common accessories have enjoyed a successful life span and numerous innovative applications. We thank you for that. Key components on these products have been obsolete for a few years now. They are no longer obtainable and our inventory stock is nearing its' end. For that reason, we are announcing the discontinuation of certain products that incorporate these components. Please contact your local OMRON sales representative for more information about this notice and other OMRON industry-leading line of programmable multi-axis motion controllers.

Product Discontinuation

MACRO I/O Peripheral Accessory ACC-52M



Model 3-3970-00-A□□□-00□00



Recommended Replacement

No Direct Replacement

UMAC Systems

ACC-5E3 + ACC-24E3

ACC-5E3 + ACC-59E3

PB□□-A□□0□□-1□□□□□□0

EtherCAT Drives or I/O

Omron 1S or 1SA Series

Omron ECC-203 + NX I/O

[Final order entry date]

March 31, 2024

[Date of The Last Shipping]

September 30, 2024

[Scheduled date of maintenance close]

September 29, 2027 (subject to part availability)

[Difference from discontinued product]

Recommended replacement Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
UMAC Solution	-	--	*	--	*	*	-
Power Brick Solution	-	--	*	--	*	*	-
EtherCAT Solution	-	-	--	-	-	-	-

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

[Product Discontinuation and Recommended Replacement]

4-3744-00-□00□-00000 Part Number

ACC-52M

D

E

F

G

J

K

L

3	-	3	9	7	0	-	0	0	-					-	0	0			
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D

A - Fiber-Optic MACRO Transceiver

MACRO Communication Options

E

1 - Sinking Output
2 - Sourcing Output

Digital Outputs

F

G

00 - No I/O Option
11 - 2x 12-bit A-D (+/-10V)
2x 12-bit D-A (+/-10V)
Single Channel Servo Interface Option
21 - 2x 12-bit A-D (0-10V)
2x 12-bit D-A (+/-10V)
Single Channel Servo Interface Option

I/O Option

J

0 - No Din Rail Mount
1 - Din Rail Mount

Mounting

K

L

00 - No Additional* Options
xx - Factory assigned digits
for Additional* Options

Factory Assigned Options

* If Any Additional Option is required, contact factory for digits K and L (Factory Assigned digits).

For UMAC Solution:

3-4017A-00-□00□-□1□□ Part Number																	
<div style="display: flex; justify-content: space-between; align-items: center;"> UMAC ACC-5E3 <div style="display: flex; gap: 10px;"> E H I K L </div> </div>																	
3	-	4	0	1	7	A	-	0	0	-	0	0	-	1			
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> E A - Fiber-Optic MACRO Transceiver MACRO Communication Options </div>						<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> H 1 - 32-Node MACRO ASIC 2 - 64-Node MACRO ASIC MACRO Node Options </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I B - BLACK Front, top and bottom plates (Standard) F - BLACK Front plate only Order as Spare Only Plate Options </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> K L 00 - No Additional* Options xx - Factory assigned digits for Additional* Options Factory Assigned Options </div>			
<small>* If Any Additional Option is required, contact factory for digits K and L (Factory Assigned digits).</small>																	

3-4002A□□□□-□□□□-□□□ Part Number																			
<div style="display: flex; justify-content: space-between; align-items: center;"> ACC-24E3 <div style="display: flex; gap: 10px;"> A B C D E F G H I K L </div> </div>																			
3	-	4	0	0	2	A					-					-			
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> A B 50 - Axis 1-2 Digital PWM 61 - Axis 1-2 Two Phase 16-bit DAC with Removable Terminal Blks 62 - Axis 1-2 Two Phase 16-bit DAC with DB15 connectors 63 - Axis 1-2 Three Phase 18-bit DAC with DB15 connectors 65 - Axis 1-2 Two Phase 18-bit DAC with Removable Terminal Blks 66 - Axis 1-2 Two Phase 18-bit DAC with DB15 connectors 67 - Axis 1-2 One Phase 16-bit DAC with DB15 connectors Amplifier Interface </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> C D 00 - No Axis 3-4 50 - Axis 3-4 Digital PWM 61 - Axis 3-4 Two Phase 16-bit DAC with Removable Terminal Blks 62 - Axis 3-4 Two Phase 16-bit DAC with DB15 connectors 63 - Axis 3-4 Three Phase 18-bit DAC with DB15 connectors 65 - Axis 3-4 Two Phase 18-bit DAC with Removable Terminal Blks 66 - Axis 3-4 Two Phase 18-bit DAC with DB15 connectors 67 - Axis 3-4 One Phase 16-bit DAC with DB15 connectors Amplifier Interface </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> E F 31 - Axis 1-2 Digital Feedback with Removable Terminal Blks 32 - Axis 1-2 Digital Feedback with DB15 connectors 41 - Axis 1-2 Sine encoder with 16-bit ADCs 42 - Axis 1-2 Resolver with 16-bit ADCs 43 - Axis 1-2 Sine encoder Not Filtered with 12-bit ADCs 44 - Axis 1-2 Resolver with 12-bit ADCs 45 - Axis 1-2 Sine encoder Filtered, with 16-bit ADCs 46 - Axis 1-2 16-bit Auto-Correcting Interpolator, DB15 47 - Axis 1-2 16-bit Three Phase Interpolator, DB15 Feedbacks </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> G H 00 - No Axis 3-4 31 - Axis 3-4 Digital Feedback with Removable Terminal Blks 32 - Axis 3-4 Digital Feedback with DB15 connectors 41 - Axis 3-4 Sine encoder with 16-bit ADCs 42 - Axis 3-4 Resolver with 16-bit ADCs 43 - Axis 3-4 Sine encoder Not Filtered with 12-bit ADCs 44 - Axis 3-4 Resolver with 12-bit ADCs 45 - Axis 3-4 Sine encoder Filtered, with 16-bit ADCs 46 - Axis 3-4 16-bit Auto-Correcting Interpolator, DB15 47 - Axis 3-4 16-bit Three Phase Interpolator, DB15 Feedbacks </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I B - Front, top and bottom Black plates (Standard) Plate Options </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> K L 00 - No Additional* Options xx - Factory assigned digits for Additional* Options Factory Assigned Options </div>			
<small>* If Any Additional Option is required, contact factory for digits K and L (Factory Assigned digits).</small>																			

3-4027A-00-0□□□-□2□□ Part Number																													
<div style="display: flex; justify-content: space-between; align-items: center;"> UMAC ACC-59E3 <div style="display: flex; gap: 10px;"> F G H I J K L </div> </div>																													
3	-	4	0	2	7	A	-	0	0	-	0			-	2														
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> F G H 200 - 16-Channel +/- 10V or 4-20mA 16-Bit A/D Converter board 211 - 16-Channel +/- 10V or 4-20mA 16-Bit A/D Converter and 8-Channel 16-Bit DAC +/- 10V Output 222 - 16-Channel +/- 10V or 4-20mA 16-Bit A/D Converter and 8-Channel 18-Bit DAC +/- 10V Output I/O Interface </div>																		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> I B - BLACK Front, top and bottom plates (Standard) F - BLACK Front plate only Order as Spare Only Plate Options </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> J 2 - Mezzanine Board I/O Mezzanine </div>				<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> K L 00 - No Additional* Options xx - Factory assigned digits for Additional* Options Factory Assigned Options </div>			
<small>* If Any Additional Option is required, contact factory for digits K and L (Factory Assigned digits).</small>																													

For Power Brick Solution:

PBL□-A□□0□□-1□□□□□□0 Part Number

B

D

E

G

H

I

J

K

L

M

N

O

P	B	L		-	A			0			-						0
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Option B		
4:	4-Axis	
8:	8-Axis	

Option GH		
	Axis 1-4	Axis 5-8 No. Enc. + Flags
50:	5/15A	- 4
5A:	5/15A	- 8
70:	1/3A	- 4
7A:	1/3A	- 8
80:	0.25/0.75A	- 4
8A:	0.25/0.75A	- 8
55:	5/15A	5/15A 8
77:	1/3A	1/3A 8
88:	0.25/0.75A	0.25/0.75A 8
57:	5/15A	1/3A 8
58:	5/15A	0.25/0.75A 8
78:	1/3A	0.25/0.75A 8

Option I	
0:	-
1:	MACRO

Option O				
	True DAC	Filtered PWM	Analog Inputs	GP Relays
0:	-	-	-	-
1:	-	4	4	4
2: ^{*1}	-	8	8	8
4: ^{*5}	4	-	4	4
5: ^{*5}	4	4	4	8

^{*1} Only available with 8 encoder channels

^{*5} Only available with 8 encoder channels and 4 amplifier channels in option H (value A)

PBA□-A□□0□□-1□□□□□□0 Part Number

B

D

E

G

H

I

J

K

L

M

N

O

P	B	A		-	A			0			-						0
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Option B	
4:	4-Axis
8:	8-Axis

Option GH		
	Axis 1-4	Axis 5-8 No. Enc.
50:	5/10A	- 4
5A:	5/10A	- 8
80:	8/16A	- 4
8A:	8/16A	- 8
55:	5/10A	5/10A 8
85:	8/16A	5/10A 8
88:	8/16A	8/16A 8

Option I	
0:	-
1:	MACRO

Option O				
	True DAC	Filtered PWM	Analog Inputs	GP Relays
0:	-	-	-	-
1:	-	4	4	4
2: ^{*1}	-	8	8	8
4: ^{*5}	4	-	4	4
5: ^{*5}	4	4	4	8

^{*1} Only available with 8 encoder channels

For EtherCAT Solution:

R88D-1SN□□□-ECT Part Number

R88D-1SN01H-ECT

1S-series
Servo Drive

Drive type
N : Communications type

Maximum applicable Servomotor capacity

- 01 : 100 W
- 02 : 200 W
- 04 : 400 W
- 06 : 600 W
- 08 : 750 W
- 10 : 1 kW
- 15 : 1.5 kW
- 20 : 2 kW
- 30 : 3 kW

Power supply voltage

- L : 100 VAC
- H : 200 VAC
- F : 400 VAC

Communications type

ECT : EtherCAT communications

NX-□□□□□□-□ Part Number

NX-□□□□□□-□
(1) (2) (3) (4) (5)

(1) Unit type

No.	Specification
ID	DC input
IA	AC input
OD	Transistor output
OC	Relay output
MD	DC input/Transistor output

(2) Number of points

No.	Specification
2	2 points
3	4 points
4	8 points
5	16 points
6	32 points, or 16 points each for inputs and outputs

(3) I/O type

No.	Inputs	Outputs	Mixed I/O (Input, Output)
1	For both NPN/PNP	NPN	For both NPN/PNP, NPN
2	---	PNP	For both NPN/PNP, PNP
3	NPN	---	---
4	PNP	---	---
6	---	N.O.	---
7	---	N.O.+N.C.	---

(5) External connection terminals

No.	Specification
None	Screwless clamping terminal block
-1	M3 screw terminal block
-5	MIL connector
-6	Fujitsu connector

(4) Other specifications

Digital Input Units

Varies depending on desired functions

NOTES:

- A UMAC Solution is the closest replacement, but because of the differences, customers are recommended to contact local Omron representative to determine the most appropriate solution for their specific application.

Product Discontinuation	Recommended Replacement
3-3970-00-A100-00000	Contact Local Omron Representative
3-3970-00-A100-00100	Contact Local Omron Representative
3-3970-00-A111-00000	Contact Local Omron Representative
3-3970-00-A111-00100	Contact Local Omron Representative
3-3970-00-A121-00000	Contact Local Omron Representative
3-3970-00-A121-00100	Contact Local Omron Representative
3-3970-00-A200-00000	Contact Local Omron Representative
3-3970-00-A200-00100	Contact Local Omron Representative
3-3970-00-A211-00000	Contact Local Omron Representative
3-3970-00-A211-00100	Contact Local Omron Representative
3-3970-00-A221-00000	Contact Local Omron Representative
3-3970-00-A221-00100	Contact Local Omron Representative

Specifications and prices 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.

Rev	Description	Date	Prepared By	Approved By
A	Released	5/12/2023	PS	AA