

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

Turbo UMAC CPU, 160/240 MHz



From 3-3766□□-□□□□-□□□□□□  
4-UMAC-00000007



### Recommended Replacement

Power UMAC CPU

To 3-4112A□U-□□0-B00000  
To 3-4241BEU-□□□-B00000

### [ 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 | Body Color | Dimensions | Wire Connection | Mounting Dimensions | Form Factor | Operation Ratings | Operation Methods |
|-------------------------|------------|------------|-----------------|---------------------|-------------|-------------------|-------------------|
| 3-4112A□U-□□0-B00000    | **         | **         | *               | **                  | **          | **                | *                 |
| 3-4231BEU-□□□-B00000    | **         | **         | *               | **                  | **          | **                | *                 |

\*\* : Compatible

\* : Minor change/Almost compatible

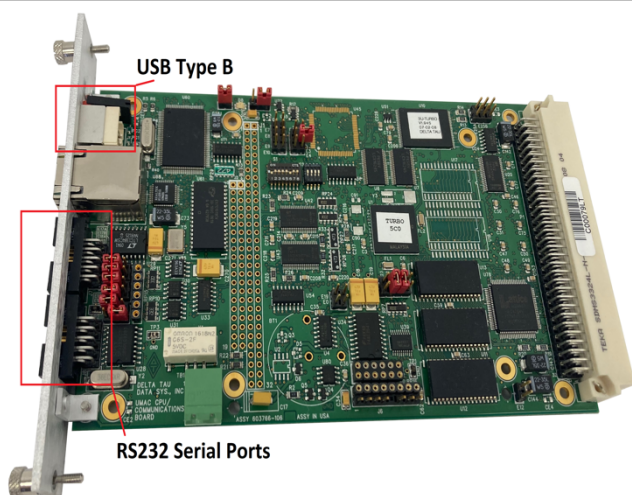
-- : Not compatible

- : No corresponding specification

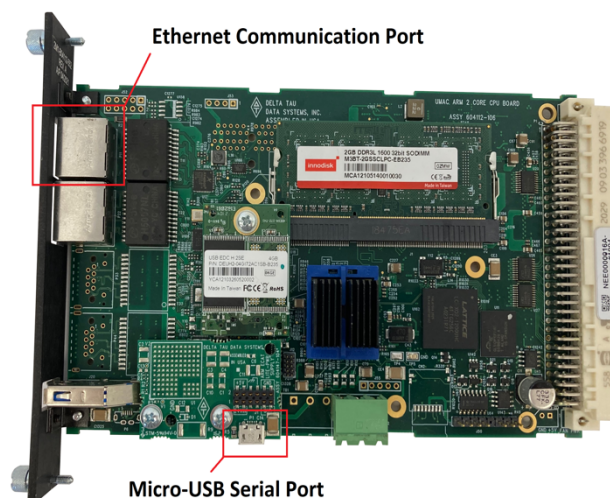
The following illustrations show the “from to” items for replacement product.

## [ Wire Connection ]

From 3-3766□□-□□□□-□□□□□□



To 3-4112A□U-□□□-B00000



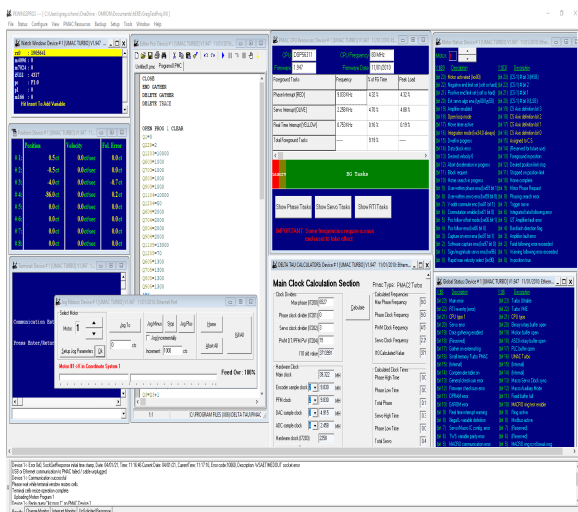
Relevant connections are identical between 1020 (3-4112A□U-□□□-B00000) and 1040 (3-4231BEU-□□□-B00000) CPUs. Only 1020 shown.

USB Type B port removed. Communication only via Ethernet.

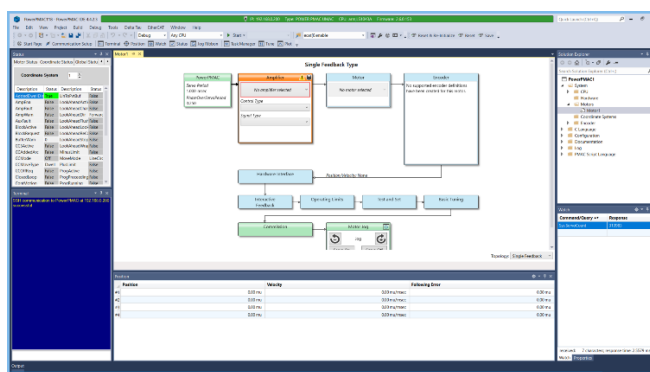
RS-232 Serial Port (10 pin connection) removed. Serial communication through Micro-USB USB to Serial Port (FTDI Windows Driver)

## [ Operation Methods ]

From 3-3766□□-□□□□-□□□□□□



To 3-4112A□U-□□□-B00000



Programming moved to Power PMAC IDE. Training is available.

[ Product Discontinuation and Recommended Replacement ]

3-3766□□-□□□□-□□□□□□ Part Number

UMAC Turbo CPU

| 3 | - | 3 | 7 | 6 | 6 |  |  | - | 2 |  | 1 |  | - |  |  | 0 | 0 |
|---|---|---|---|---|---|--|--|---|---|--|---|--|---|--|--|---|---|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A</b> <b>B</b></p> <p><b>C0 - Opt. 5C0 80MHz</b><br/>256Kx24 SRAM<br/>1Mx8 flash<br/>(Standard)</p> <p><b>C3 - Opt. 5C3 80MHz</b><br/>1Mx24 SRAM<br/>4Mx8 flash</p> <p><b>E0 - Opt. 5E0 160MHz</b><br/>256Kx24 SRAM<br/>1Mx8 flash</p> <p><b>E3 - Opt. 5E3 160MHz</b><br/>1Mx24 SRAM<br/>4Mx8 flash</p> <p><b>F0 - Opt. 5F0 240MHz</b><br/>256Kx24 SRAM<br/>1Mx8 flash</p> <p><b>F3 - Opt. 5F3 240MHz</b><br/>1Mx24 SRAM<br/>4Mx8 flash</p> <p><b>CPU / Memory / Firmware Options</b></p> | <p><b>C</b></p> <p><b>2 - PMAC2 (Standard)*</b></p> | <p><b>D</b></p> <p><b>0 - No Options</b><br/><b>1 - Opt. 8A</b><br/>High-accuracy clock crystal</p> <p><b>2 - Opt. 16A</b><br/>Battery-backed Parameter RAM</p> <p><b>3 - Opt. 18A</b><br/>Electronic board Identification</p> <p><b>4 - Opt. 8A &amp; Opt. 16A</b><br/>High-accuracy clock crystal &amp;<br/>Battery-backed Parameter RAM</p> <p><b>5 - Opt. 8A &amp; Opt. 18A</b><br/>High-accuracy clock crystal &amp;<br/>Electronic board Identification</p> <p><b>6 - Opt. 16A &amp; Opt. 18A</b><br/>Battery-backed Parameter RAM &amp;<br/>Electronic board Identification</p> <p><b>7 - Opt. 8A &amp; Opt. 16A &amp; Opt. 18A</b><br/>High-accuracy clock crystal &amp;<br/>Battery-backed Parameter RAM &amp;<br/>Electronic board Identification</p> <p><b>Other CPU Options</b></p> | <p><b>F</b></p> <p><b>4 - No Options</b><br/><b>5 - Opt. 2B</b><br/>Dual Port. RAM</p> <p><b>6 - Opt. 15F</b><br/>ModBus Comm.</p> <p><b>7 - Opt. 2B &amp; Opt. 15F</b><br/>Dual Port. RAM &amp;<br/>ModBus Comm.</p> <p><b>8 - Opt. A**</b><br/>PC/104 BUS</p> <p><b>9 - Opt. 2B &amp; Opt. A**</b><br/>Dual Port. RAM &amp;<br/>PC/104 BUS</p> <p><b>A - Opt. 15F &amp; Opt. A**</b><br/>ModBus Comm. &amp;<br/>PC/104 BUS</p> <p><b>B - Opt. 2B &amp; Opt. 15F &amp; Opt. A**</b><br/>Dual Port. RAM &amp;<br/>ModBus Comm. &amp;<br/>PC/104 BUS</p> <p><b>Communication Options</b></p> | <p><b>G</b> <b>H</b></p> <p><b>B0 - Opt. B0</b><br/>1 slot Front, top and bottom<br/><b>BLACK plates (Standard)**</b></p> <p><b>B1 - Opt. B1</b><br/>1.5 slot Front, top and bottom<br/><b>BLACK plates**</b></p> <p><b>R0 - Opt. R0 (Obsolete)</b><br/>1 slot Front, top and bottom<br/><b>SILVER plates (Standard)**</b></p> <p><b>R1 - Opt. R1 (Obsolete)</b><br/>1.5 slot Front, top and bottom<br/><b>SILVER plates**</b></p> <p><b>Order as Spare Only</b><br/><b>F0 - 1 slot Front BLACK plate**</b><br/><b>F1 - 1.5 slot Front BLACK plate**</b><br/><b>A0 - 1 slot Front SILVER plate** (Obsolete)</b><br/><b>A1 - 1.5 slot Front SILVER plate** (Obsolete)</b><br/><b>00 - No plates</b></p> <p><b>Plate Options**</b></p> | <p><b>K</b> <b>L</b></p> <p><b>00 - No Additional* Options</b><br/><b>xx - Factory assigned digits for Additional* Options</b></p> <p><b>Factory Assigned Options</b></p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* If Opt. 10xx (specific firmware version) or any other Additional Option is required, contact factory for digits

**K** and **L** (Factory Assigned digits). If Opt. 10xx is not ordered the latest firmware is used.

\*\* 1 slot plates used when No Opt-A is ordered or if ACC-PC104 is connected To CPU Board's PC/104 BUS (Opt-A).

1.5 slot plates used when Opt-A is ordered and No ACC is Connected to CPU Board's PC/104 BUS (Opt-A) to protect connector.

3-4112A□□-□□□-B00000 Part Number

Power UMAC 2 CORE ARM CPU

| 3 | - | 4 | 1 | 1 | 2 | A |  | U | - |  |  | 0 | - | B | 0 | 0 | 0 |
|---|---|---|---|---|---|---|--|---|---|--|--|---|---|---|---|---|---|

|                                                                                                 |                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A</b></p> <p><b>A - Dual-Core 1GHz ARM CPU</b></p>                                        | <p><b>B</b></p> <p><b>A - 1 GB RAM &amp; 1 GB Flash</b><br/><b>E - 2 GB RAM &amp; 4 GB Flash</b></p> | <p><b>D</b></p> <p><b>2 - 2 RJ45 Ethernet Ports OR (1 EtherNet &amp; 1 EtherCAT Port***) (E)</b></p> <p><b>4 - PCIe** &amp; 2 RJ45 Ethernet Ports OR (1 EtherNet &amp; 1 EtherCAT Port***) (E)</b></p> <p><b>PCIe, EtherNet And/Or EtherCAT Options</b></p>                                                                                                                                              | <p><b>G</b> <b>H</b></p> <p><b>B0 - 1 SLOT Black Front, Top and Bottom plates</b></p> <p><b>Plate Option</b></p> | <p><b>K</b> <b>L</b></p> <p><b>00 - No Additional* Options</b><br/><b>xx - Factory assigned digits for Additional* Options</b></p> <p><b>Factory Assigned Options</b></p> |
| <p><b>C</b></p> <p><b>U - UMAC Option with (30U-604147-10X)</b></p> <p><b>Format Option</b></p> |                                                                                                      | <p><b>E</b></p> <p><b>0 - No EtherCAT</b><br/><b>1 - EtherCAT I/O Only</b><br/><b>2 - EtherCAT 4 Servo Axes and I/O</b><br/><b>3 - EtherCAT 8 Servo Axes and I/O</b><br/><b>5 - EtherCAT 16 Servo Axes and I/O</b><br/><b>9 - EtherCAT 32 Servo Axes and I/O</b></p> <p><b>For more than 32 Servo Axes call factory</b></p> <p><b>EtherCAT Options</b><br/><b>Requires EtherCAT Port Option From</b></p> |                                                                                                                  |                                                                                                                                                                           |

\*\* This Option May require additional plates

\*\*\* For EtherCAT option requires selection from (E)

**NOTES:**

- As Custom P/Ns require customer approval, no equivalent part number can be recommended at this time.
- All recommendations are for the 1020 (“Dual Core”) UMAC CPU. The 1040 (“Quad Core”) version is also available and may be preferred for some applications and customers. Contact Local Omron Representative if you are not sure which would be recommended for your specific application.
- All recommendations are for the “1GB RAM & 1GB Flash” option, as no true equivalent option existed previously. The “2GB RAM & 4GB Flash” option is also available and may be preferred for some applications and customers. Contact Local Omron Representative if you are not sure which would be recommended for your specific application.
- Certain options (Electronic Board Identification, Dual Port RAM, and PC/104 BUS) are not available, and so units with those options are suggested to contact Local Omron Representative. Other options (battery-backed RAM and Modbus) have equivalents that are standard on 1020 and 1040 UMAC CPUs.

| Product Discontinuation | Recommended Replacement            |
|-------------------------|------------------------------------|
| 3-3766E0-2014-000000    | 3-4112AAU-200-BH0000               |
| 3-3766E0-2014-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E0-2014-F00000    | 3-4112AAU-200-BH0000               |
| 3-3766E0-2015-000000    | Contact Local Omron Representative |
| 3-3766E0-2015-B00000    | Contact Local Omron Representative |
| 3-3766E0-2015-B10000    | Contact Local Omron Representative |
| 3-3766E0-2015-F00000    | Contact Local Omron Representative |
| 3-3766E0-2016-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E0-2017-B00000    | Contact Local Omron Representative |
| 3-3766E0-2017-B10000    | Contact Local Omron Representative |
| 3-3766E0-2114-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E0-2115-B00000    | Contact Local Omron Representative |
| 3-3766E0-2214-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E0-2215-B00000    | Contact Local Omron Representative |
| 3-3766E0-2215-B10000    | Contact Local Omron Representative |
| 3-3766E0-2217-B00000    | Contact Local Omron Representative |
| 3-3766E0-2219-B00000    | Contact Local Omron Representative |
| 3-3766E0-2219-B10000    | Contact Local Omron Representative |
| 3-3766E0-2414-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E3-2014-000000    | 3-4112AAU-200-BH0000               |
| 3-3766E3-2014-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E3-2015-000000    | Contact Local Omron Representative |
| 3-3766E3-2015-B00000    | Contact Local Omron Representative |
| 3-3766E3-2015-B10000    | Contact Local Omron Representative |
| 3-3766E3-2015-F00000    | Contact Local Omron Representative |
| 3-3766E3-2016-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E3-2114-B00000    | 3-4112AAU-200-BH0000               |
| 3-3766E3-2115-B00000    | Contact Local Omron Representative |

|                      |                                    |
|----------------------|------------------------------------|
| 3-3766E3-2214-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766E3-2215-B00000 | Contact Local Omron Representative |
| 3-3766E3-2217-B00000 | Contact Local Omron Representative |
| 3-3766E3-2219-F10000 | Contact Local Omron Representative |
| 3-3766E3-2415-000000 | Contact Local Omron Representative |
| 3-3766E3-2415-B00000 | Contact Local Omron Representative |
| 3-3766E3-2614-B00000 | Contact Local Omron Representative |
| 3-3766E3-2615-B00000 | Contact Local Omron Representative |
| 3-3766F0-2014-000000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2014-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2014-B10000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2014-F00000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2015-000000 | Contact Local Omron Representative |
| 3-3766F0-2015-B00000 | Contact Local Omron Representative |
| 3-3766F0-2015-B10000 | Contact Local Omron Representative |
| 3-3766F0-2015-F00000 | Contact Local Omron Representative |
| 3-3766F0-2016-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2017-B00000 | Contact Local Omron Representative |
| 3-3766F0-2018-B10000 | Contact Local Omron Representative |
| 3-3766F0-2019-B00000 | Contact Local Omron Representative |
| 3-3766F0-2019-B10000 | Contact Local Omron Representative |
| 3-3766F0-2019-F00000 | Contact Local Omron Representative |
| 3-3766F0-2019-F10000 | Contact Local Omron Representative |
| 3-3766F0-2115-B00000 | Contact Local Omron Representative |
| 3-3766F0-2214-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2214-B10000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2215-B00000 | Contact Local Omron Representative |
| 3-3766F0-2215-B10000 | Contact Local Omron Representative |
| 3-3766F0-2216-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F0-2217-B00000 | Contact Local Omron Representative |
| 3-3766F3-2014-000000 | 3-4112AAU-200-BH0000               |
| 3-3766F3-2014-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F3-2015-000000 | Contact Local Omron Representative |
| 3-3766F3-2015-B00000 | Contact Local Omron Representative |
| 3-3766F3-2015-B10000 | Contact Local Omron Representative |
| 3-3766F3-2015-F00000 | Contact Local Omron Representative |
| 3-3766F3-2016-B00000 | 3-4112AAU-200-BH0000               |

|                      |                                    |
|----------------------|------------------------------------|
| 3-3766F3-2017-B00000 | Contact Local Omron Representative |
| 3-3766F3-2019-B00000 | Contact Local Omron Representative |
| 3-3766F3-2019-B10000 | Contact Local Omron Representative |
| 3-3766F3-2019-F10000 | Contact Local Omron Representative |
| 3-3766F3-2114-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F3-2115-B00000 | Contact Local Omron Representative |
| 3-3766F3-2115-B10000 | Contact Local Omron Representative |
| 3-3766F3-2214-B00000 | 3-4112AAU-200-BH0000               |
| 3-3766F3-2215-B00000 | Contact Local Omron Representative |
| 3-3766F3-2215-B10000 | Contact Local Omron Representative |
| 3-3766F3-2217-B00000 | Contact Local Omron Representative |
| 3-3766F3-2219-B00000 | Contact Local Omron Representative |
| 3-3766F3-2415-B00000 | Contact Local Omron Representative |
| 3-3766F3-2415-B10000 | Contact Local Omron Representative |
| 3-3766F3-2417-B00000 | Contact Local Omron Representative |
| 3-3766F3-2514-B00000 | Contact Local Omron Representative |
| 3-3766F3-2515-B00000 | Contact Local Omron Representative |
| 3-3766F3-2615-B00000 | Contact Local Omron Representative |
| 3-3766F3-2717-B00000 | Contact Local Omron Representative |
| 3-3766F3-2719-B10000 | Contact Local Omron Representative |
| 4-UMAC-00000007      | 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                  | 3/10/2023 | RM          | AA          |
| B   | Added special part number | 3/30/2023 | EW          |             |