



PRODUCT DISCONTINUANCE # 16399Generic Copy

Issue Date: 09-Mar-2010**TITLE:** End of life (EOL) of PQ2 and PQFP/MQFP 40mm x 40mm Package**PROPOSED ASSEMBLY LAST TIME BUILD:**

- For PQ2 40x40 last time build is Dec 31, 2010
- For PQFP/MQFP 40x40 last time build is June 1, 2010
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PROPOSED ASIC ORDER DEADLINE:

- For PQ2 40x40 - Order deadline is October 31, 2010
- For PQFP/MQFP 40x40 – Order deadline is April 1, 2010

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact your local ON Semiconductor Sales Office or John Rankin<John.Rankin@onsemi.com> or Christine Walker<Christine.Walker@onsemi.com>

NOTIFICATION TYPE:

Customers must notify ON Semiconductor (<quality@onsemi.com>) in writing within 90 days of receipt of this notification if they consider the discontinued product to be "Sole Source." ON Semiconductor and the customer may negotiate an appropriate End-of-Life.

DESCRIPTION AND PURPOSE:

Amkor Technology Korea Plant 1, ON Semi assembly subcontractor is removing the PQ2 & MQFP (PQFP) 40mm x 40mm package in their portfolio due low demands and production is not economically viable. These packages are running in very low volume and were not active for the past two years. Amkor will accommodate last time build for PQ2 40x40 till Dec 31, 2010 and for PQFP 40x40 till June 30, 2010.

It is recommended that customer will do the last time buy.

Please refer to appendix 1 & 2 Amkor PCN notice for details of this EOL.

**PRODUCT DISCONTINUANCE #16399****Appendix 1 : Amkor PQ2 Discontinuance Notice****1.0 Scope:**

This PCN serves as notice to all customers that Amkor Technology plans to discontinue manufacturing of all PowerQuad 2 LQFP (Package Code TP) and MQFP (Package Code HS) packages in ATK1

Upon completion of this change, all PowerQuad 2 products in ATK1 will be discontinued.

2.0 Implementation Date

Final assembly of PowerQuad 2 packages will be December 31st, 2010.

3.0 Sales Action:

Amkor Sales is requested to distribute this PCN to affected customers and coordinate plans to fulfill final lifetime build quantities or, where possible, qualify an alternative package solution for their impacted devices.

4.0 Customer Action:

Customers will be notified through Amkor Sales. They are asked to review this PCN and to coordinate with their respective Amkor account management team for the phase out of PowerQuad 2 for their impacted devices by providing final life time build quantities or qualifying an alternative package solution prior to the final assembly date described in Section 2.0.

5.0 Purpose of Change:

The purpose of this PCN is to alert customers of Amkor's intention to discontinue assembly of PowerQuad 2 packages. PowerQuad 2 is an older thermally enhanced leadframe package solution which has been experiencing steadily declining demand over the past several years. Current demand is now at a point where Amkor no longer believes we can ensure continued supply for the long term. Therefore, Amkor is requesting customers to take preventative measures now to avoid potential PowerQuad 2 supply problems later on.

6.0 Description of Change:

Upon completion of this PCN, Amkor will no longer assemble the following LQFP and MQFP PowerQuad 2 packages:

20mm x 20mm LQFP 144L (PDL: TP 20 144)
28mm x 28mm MQFP 144L, 160L, 208L 256L (PDL: HS 28 144, 160, 208, 256)
32mm x 32mm MQFP 240L (PDL: HS 32 240)
40mm x 40mm MQFP 304L (PDL: HS 40 304)

7.0 Conclusion:

The declining demand for PowerQuad 2 leadframe packages has resulted in risk of long term package supply sustainability throughout the material supply chain. Amkor believes it is in our customer's best interest to determine either an alternative package solution or place final build orders for current PowerQuad 2 applications.

**PRODUCT DISCONTINUANCE #16399****Appendix 2 : Amkor PQFP/MQFP 40mm x 40mm Discontinuance****1.0 Scope:**

This PCN serves as notice to all customers that Amkor Technology plans to discontinue manufacturing all of the above impacted 40mm x 40mm MQFP Packages at ATK1.

There are no alternative leadframe packages within Amkor to replace the 40mm package.

2.0 Implementation Date:

The target date for the production shut down of the impacted 40mm x 40mm MQFP leadframe assembly line at the Korean ATK1 facility is June 30, 2010.

Last day for orders is June 1, 2010.

3.0 Sales Action:

- Present this PCN to all affected 40mm x 40mm MQFP customers and notify them of the planned discontinuance.
- Work with customers to develop exit plans, final build quantities, and buffer inventory plans as appropriate

4.0 Customer Action:

Customers will be notified through Amkor Technology Sales of the 40mm x 40mm MQFP Phase-out.

Customers with 40mm x 40mm MQFP packages active in their portfolio that are assembled in ATK1 need to communicate with the Amkor sales team to plan for final assembly builds in anticipation of the line shut down.

Final assembly builds need to be scheduled to start before June 1, 2010 to ensure completion before shut down.

5.0 Purpose of Change:

Amkor continually reviews its package portfolio and the corresponding performance to corporate financial goals. The 40mm package is a very mature package and current production volume is not economically viable. Amkor will not continue to devote resources to maintain this package.

6.0 Description of Change:

Amkor Technology plans to End Of Life 40mm x 40mm MQFP Packages at ATK1 by June 30, 2010 with a last order date of June 1, 2010.

7.0 Conclusion:

This PCN serves as notification to all affected customers that Amkor Technology plans to stop manufacturing 40mm x 40mm MQFP Packages at ATK1 as described in prior sections.