Overview

The purpose of this notification is to announce the transitioning of all wire bond package types for Spartan®-3, Spartan-3E and Spartan-3A FPGA products from gold (Au) to copper (Cu) wire. For the Cu-wire assembly, only halogen free, EU-ROHS compliant packages and green mold compound will be used. These packages do not contain published REACH SvHC materials.

Description

Xilinx's conversion to copper wire is to align with the current industry trend to better support long-term demand for the affected products. Copper wire has demonstrated better electrical and mechanical performance than gold wire. Xilinx assembly suppliers have qualified copper wire technology and have been using it in high volume production since 2008. Any planned capacity expansion will be for copper wire packages only.

This change will not affect fit, form, function or MSL rating of the packages. For Cu-wire assembly, the packages are halogen free, EU-RoHS compliant with green mold compound, and do not contain published REACH SvHC materials. Xilinx will continue to support packages assembled with tin lead (SnPb) solder balls and leadframe plating.

Products Affected

This change affects all speed, package, and temperature variations of "XC" commercial (C) and industrial (I) grade product families mentioned in the title and overview. Automotive "XA" and Aerospace/Defense "XQ" are not affected.

Key Dates and Ordering Information

Xilinx will begin to cross-ship products using both gold wire and copper wire per the Table 1 schedule.

Table 1: Spartan-3 FPGA Products Cross-Ship Schedule

Devices	Packages	Target Cross Shipping Date
Spartan-3/-3E/-3A	VQ(G)100 TQ(G)144 PQ(G)208	November, 2011
Spartan-3/-3E/-3A	CP(G)132 FT(G)256 FG(G)320 FG(G)400 FG(G)456 FG(G)484 FG(G)676 FG(G)900 FG(G)1156	January, 2012*

* Phase In Begins

Qualification Data

Xilinx has successfully passed and completed the Cu wire qualification. Please refer to Xilinx RPT156 for more detail.

Response

No response is required. For additional information or questions, please contact Xilinx Technical Support.

Important Notice: Xilinx Customer Notifications (XCNs, XDNs, and Quality Alerts) can be delivered via e-mail alerts sent by the Support website (http://www.xilinx.com/support). Register today and personalize your "Documentation and Design Advisory Alerts" area to include Customer Notifications. Xilinx Support provides many benefits, including the ability to receive alerts for new and updated information about specific products, as well as alerts for other publications such as data sheets, errata, application notes, etc. For information on how to sign up, refer to Xilinx Answer Record 18683.

Additional Documentation

Qualification Report (RPT156):

https://secure.xilinx.com/webreg/clickthrough.do?cid=173884.

Revision History

The following table shows the revision history for this document.

Date	Version	Revision
08/15/11	1.0	Initial release.

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