



# Forged to Stamped Lid Conversion for Monolithic FPGA Flip Chip Packages

XCN16004 (v1.3) October 31, 2016

Product Change Notice

## Overview

The purpose of this notification is to announce the transition from “forged” to “stamped” lids for selected 31mm and 35mm monolithic flip chip package body sizes. Device-packages from Virtex®-4, Virtex®-7, Kintex®-7 FPGAs and Zynq®-7000 families will be included in the change. Lid material remains unchanged, as does fit and function. However, form (lid shape) will be slightly modified.

## Description

Xilinx will be transitioning selected monolithic flip chip packages for Virtex-4, Virtex-7, Kintex-7 FPGAs and Zynq-7000 families from forged to stamped lids. Lid material will remain Ni plated Cu and overall package thickness for all impacted part numbers will remain unchanged. Top surface of the stamped lid will be slightly smaller than that of the current flat top, forged lid.

This conversion is being done to standardize lid designs across Xilinx’s flip chip package offerings. Stamped lids are widely used in the industry and as such, no special risks or considerations are associated with this change. Reliability and manufacturing performance is on par with that of forged lids.

## Products Affected

This change affects all speed, package, and temperature variations of “XC” commercial (C), industrial (I) and Defense “XQ” grade reflected in [Table 1](#) and [Table 2](#). Any associated SCDs or EasyPath™ are also affected.

Table 1: Virtex-4 Devices-Packages FPGAs Products Affected

Device	Package-Pin	Body Size
XC4VFX40	FF(G)1152	35mm
XC4VFX60		
XC4VFX100		
XQ4VFX60	FF1152	
XQ4VFX100		

Table 2: 7-series FPGAs and Zynq-7000 Devices-Packages Product Affected

Device	Package-Pin	Body Size
XC7K325T	FF(G)900	31mm
XC7K410T		
XC7Z035		
XC7Z045		
XC7Z100		
XC7K420T	FF(G)1156	35mm
XC7K480T		
XC7VX330T	FF(G)1157	
XC7VX415T		
XC7VX485T		
XC7V585T		
XC7VX415T	FF(G)1158	
XC7VX485T		

### Key Dates and Ordering Information

Xilinx will begin cross-shipping “XC” products using both forged and stamped lids starting from June 18, 2017. The date code cut-over for “XQ” products will be “1725”.

### Traceability

No change to any part ordering or top marking. Below is a representation of the lid change.

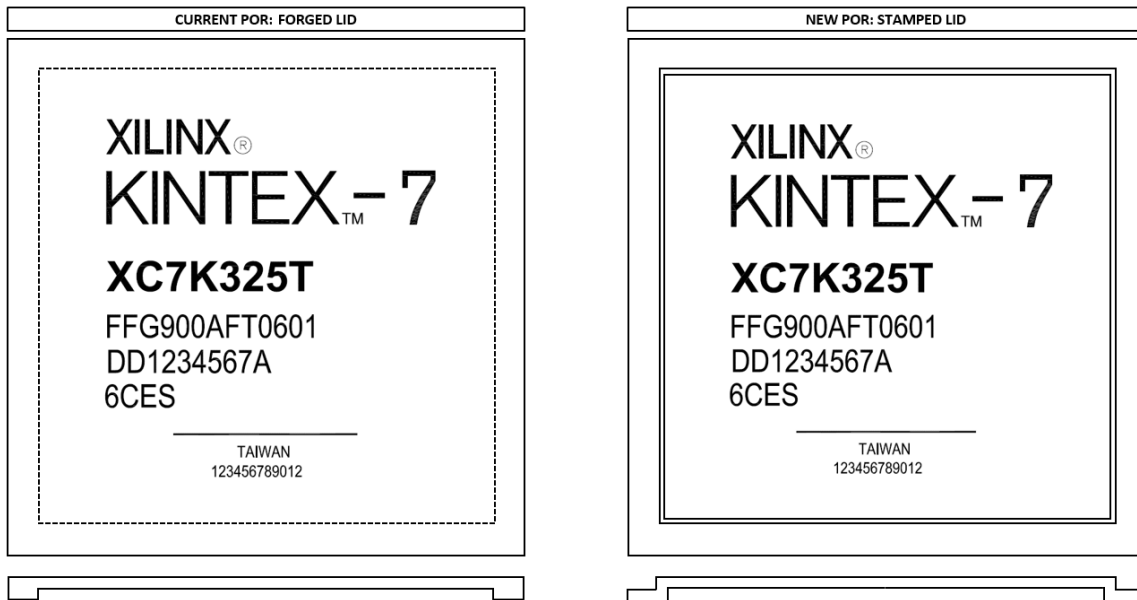


Figure 1: Lid change representation

## Qualification Data

Qualification vehicles and results are shown in [Table 3](#). Additional qualification data can be provided upon request.

Table 3: Qualification Test

Device	Package-Pin	TCB 1000 (-55C/125C)	Results
XC2V8000	FF(G)1152	0/25 x 3 lots	Passed
XC4VFX100	FF(G)1152	0/25 x 3 lots	Passed
XC7V585T	FF(G)1157	0/25 x 3 lots	Passed

## Response

No response is required. For additional information or questions, please contact [Xilinx Technical Support](#).

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## Revision History

The following table shows the revision history for this document.

Date	Version	Revision
4/18/2016	1.0	Initial Release.
4/25/2016	1.1	Removed Virtex-II product from Table 1 and Virtex-II references.
7/4/2016	1.2	Revised cross-shipping date and added “XQ” cut-over date code.
10/31/2016	1.3	Revised cross-shipping date and cut-over date code.

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