



# Discontinue Low-Volume Members of the XC4000XL, XC4000E, XC9500XV, and XC3100A Product Families

XCN05020 (v1.2) April 12, 2010

Product Discontinuance Notice

## Overview

The purpose of this notice is to discontinue certain low-volume device package-pin combinations of the XC4000E, XC4000XL, and XC9500XV product families, and all of the device/package-pin combinations of the XC3100A product families. This applies to commercial and industrial (C-grade and I-grade) products only. **Military products are not affected.**

## Description

These device package combinations have declined in customer usage to the point that it is no longer economical to continue manufacturing them. A Pb-free version will not be provided for discontinued part numbers.

## Discontinuance Summary

### XC4000XL and XC4000E

For the XC4000XL product family:

- Package: HT144 for all 4000XL products
- Device: XC4020XL and XC4044XL on all packages

For the XC4000E product family:

- Device: XC4003E and XC4006E on all packages

The XC4000XLA family is a drop-in replacement where available for the XC4000XL family. Not all recommended replacements identified in the right column of [Table 1](#) are drop-in replacements for the discontinued part numbers. In these cases, a re-design of the customer's board may be required. Customers may need to have the original design tools in order to support the re-design.

Because of the maturity of the product, recommended replacements provide only a short-term solution and there is no commitment for end-of-life expectancy. For long-term solutions, please consider re-designing into the Spartan™ product family. Contact your Xilinx Sales Representative for help with replacement devices.

### XC9500XV

Two packages are being removed in the XC9500XV product family:

- Package: PC44 and CS48

Not all recommended replacements identified in right column of [Table 3](#) are drop-in replacements for the discontinued part numbers. In these cases, a re-design of the customer's board may be required. Customers may need to have the original design tools in order to support the re-design.

Because of the maturity of the product, recommended replacements provide only a short-term solution and there is no commitment for end-of-life expectancy. For long-term solutions, please consider re-designing into the XC9500XL product family. Please contact your Xilinx Sales Representative for help with replacement devices.

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## XC3100A

All remaining devices and packages from the XC3100A product family are being obsoleted.

Because of the maturity of the product, recommended replacements provide only a short-term solution and there is no commitment for end-of-life expectancy. For long-term solutions, please consider re-designing into the Spartan product family. Contact your Xilinx Sales Representative for help with replacement devices.

## Products Affected

This change affects the devices and packages listed in [Table 1](#), [Table 2](#), [Table 3](#), and [Table 4](#). See [Table 5](#) in the Appendix for a complete list of ordering part numbers affected by this change.

*Table 1: XC4000XL Products Affected*

XC4000XL Family Member	Package	Speed Grade	Temperature Grade	Recommended Replacement
XC4013XL	HT144	All speed grades	Commercial and industrial temperature grades	
XC4020XL	HT144	All speed grades	Commercial and industrial temperature grades	
XC4020XL	HT176	All speed grades	Commercial and industrial temperature grades	
XC4020XL	BG256	All speed grades	Commercial and industrial temperature grades	XC4020XLA-BG256 <sup>1</sup>
XC4020XL	PQ160	All speed grades	Commercial and industrial temperature grades	
XC4020XL	PQ208	All speed grades	Commercial and industrial temperature grades	XC4020XLA-PQ208 <sup>1</sup>
XC4020XL	PQ240	All speed grades	Commercial and industrial temperature grades	XC4020XLA-PQ240 <sup>1</sup>
XC4044XL	HQ160	All speed grades	Commercial and industrial temperature grades	XC4052XLA-HQ160
XC4044XL	HQ208	All speed grades	Commercial and industrial temperature grades	XC4052XLA-HQ208
XC4044XL	HQ240	All speed grades	Commercial and industrial temperature grades	XC4052XLA-HQ240
XC4044XL	HQ304	All speed grades	Commercial and industrial temperature grades	XC4052XLA-HQ304
XC4044XL	BG352	All speed grades	Commercial and industrial temperature grades	XC4052XLA-BG352
XC4044XL	BG432	All speed grades	Commercial and industrial temperature grades	XC4052XLA-BG432

<sup>1</sup> Indicates product with drop-in replacement capability.

*Table 2: XC4000E Products Affected*

<b>XC4000E Family Member</b>	<b>Package</b>	<b>Speed Grade</b>	<b>Temperature Grade</b>	<b>Recommended Replacement</b>
XC4003E	PC84	All speed grades	Commercial and industrial temperature grades	
XC4003E	PQ100	All speed grades	Commercial and industrial temperature grades	
XC4003E	VQ100	All speed grades	Commercial and industrial temperature grades	
XC4006E	PC84	All speed grades	Commercial and industrial temperature grades	
XC4006E	TQ144	All speed grades	Commercial and industrial temperature grades	
XC4006E	PQ160	All speed grades	Commercial and industrial temperature grades	
XC4006E	PQ208	All speed grades	Commercial and industrial temperature grades	

*Table 3: XC9500XV Products Affected*

<b>XC9500XV Family Member</b>	<b>Package</b>	<b>Speed Grade</b>	<b>Temperature Grade</b>	<b>Recommended Replacement</b>
XC9536XV	PC44	All speed grades	Commercial and industrial temperature grades	XC9536XL-PC44
XC9572XV	PC44	All speed grades	Commercial and industrial temperature grades	XC9572XL-PC44
XC9536XV	CS48	All speed grades	Commercial and industrial temperature grades	XC9536XL-CS48
XC9572XV	CS48	All speed grades	Commercial and industrial temperature grades	XC9572XL-CS48

*Table 4: XC3100A Products Affected*

<b>XC3100A Family Member</b>	<b>Package</b>	<b>Speed Grade</b>	<b>Temperature Grade</b>	<b>Recommended Replacement</b>
XC3120A	PC68	All speed grades	Commercial and industrial temperature grades	
XC3130A	PC68	All speed grades	Commercial and industrial temperature grades	
XC3130A	PC84	All speed grades	Commercial and industrial temperature grades	
XC3130A	PQ100	All speed grades	Commercial and industrial temperature grades	
XC3130A	VQ100	All speed grades	Commercial and industrial temperature grades	
XC3142A	PC84	All speed grades	Commercial and industrial temperature grades	

Table 4 (Continued): XC3100A Products Affected

XC3100A Family Member	Package	Speed Grade	Temperature Grade	Recommended Replacement
XC3142A	PQ100	All speed grades	Commercial and industrial temperature grades	
XC3142A	VQ100	All speed grades	Commercial and industrial temperature grades	
XC3142A	TQ144	All speed grades	Commercial and industrial temperature grades	
XC3164A	PC84	All speed grades	Commercial and industrial temperature grades	
XC3164A	TQ144	All speed grades	Commercial and industrial temperature grades	
XC3164A	PQ160	All speed grades	Commercial and industrial temperature grades	
XC3190A	PC84	All speed grades	Commercial and industrial temperature grades	
XC3190A	PQ160	All speed grades	Commercial and industrial temperature grades	
XC3190A	TQ176	All speed grades	Commercial and industrial temperature grades	
XC3190A	PQ208	All speed grades	Commercial and industrial temperature grades	
XC3195A	PC84	All speed grades	Commercial and industrial temperature grades	
XC3195A	PQ160	All speed grades	Commercial and industrial temperature grades	
XC3195A	PQ208	All speed grades	Commercial and industrial temperature grades	

## Key Dates and Ordering Information

Final orders are accepted until December 1, 2006.

Final deliveries must occur on or before May 1, 2007.

## Response

Customers are requested to place last-time-buy orders in a timely manner prior to the key dates listed above to avoid product availability issues. If you anticipate that your last time buy requirements will exceed the current rate, please provide your Xilinx Sales Representative with a forecast of the requirements. All orders will be supported on a first-come, first-served basis with the non-cancellable and non-returnable (NCNR) condition. For additional information or questions, contact your local Xilinx Sales representative.

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## Appendix

Table 5: Ordering Part Numbers Affected

XC4013XL-09HT144C	XC4044XL-09BG352C	XC4003E-3PC84I	XC3130A-09PQ100C	XC3164A-2PC84I
XC4013XL-1HT144C	XC4044XL-09BG432C	XC4003E-3PQ100C	XC3130A-1PC84C	XC3164A-2PQ160C
XC4013XL-1HT144I	XC4044XL-09HQ208C	XC4003E-3PQ100I	XC3130A-1PQ100C	XC3164A-2PQ160I
XC4013XL-2HT144C	XC4044XL-09HQ240C	XC4003E-4PC84C	XC3130A-2PQ100C	XC3164A-2TQ144C
XC4013XL-2HT144I	XC4044XL-1BG352C	XC4003E-4PC84I	XC3130A-2PQ100I	XC3164A-3PC84C
XC4013XL-3HT144C	XC4044XL-1BG352I	XC4003E-4PQ100C	XC3130A-3PC84C	XC3164A-3PC84I
XC4013XL-3HT144I	XC4044XL-1BG432C	XC4003E-4PQ100I	XC3130A-3PC84I	XC3164A-3PQ160C
	XC4044XL-1BG432I		XC3130A-3PQ100C	XC3164A-3PQ160I
XC4020XL-09BG256C	XC4044XL-1HQ208C	XC4006E-1PQ160C	XC3130A-3PQ100I	XC3164A-3TQ144C
XC4020XL-09HT144C	XC4044XL-1HQ208I	XC4006E-1PQ208C	XC3130A-4PC84C	XC3164A-3TQ144I
XC4020XL-09PQ160C	XC4044XL-1HQ240C	XC4006E-2PQ160C	XC3130A-4PC84I	XC3164A-4PC84C
XC4020XL-09PQ208C	XC4044XL-1HQ240I	XC4006E-2PQ160I	XC3130A-4PQ100C	XC3164A-4PC84I
XC4020XL-1BG256C	XC4044XL-2BG352C	XC4006E-3PQ160C	XC3130A-4PQ100I	XC3164A-4PQ160C
XC4020XL-1BG256I	XC4044XL-2BG352I	XC4006E-3PQ160I		XC3164A-4PQ160I
XC4020XL-1HT144C	XC4044XL-2BG432C	XC4006E-3PQ208C	XC3142A-09PC84C	XC3164A-4TQ144C
XC4020XL-1HT144I	XC4044XL-2BG432I	XC4006E-3PQ208I	XC3142A-09PQ100C	XC3164A-4TQ144I
XC4020XL-1PQ160C	XC4044XL-2HQ208C	XC4006E-4PQ160C	XC3142A-1PC84C	
XC4020XL-1PQ160I	XC4044XL-2HQ208I	XC4006E-4PQ160I	XC3142A-1PQ100C	XC3190A-09PC84C
XC4020XL-1PQ208C	XC4044XL-2HQ240C	XC4006E-4PQ208C	XC3142A-2PC84C	XC3190A-09PQ160C
XC4020XL-1PQ208I	XC4044XL-2HQ240I	XC4006E-4PQ208I	XC3142A-2PC84I	XC3190A-09TQ176C
XC4020XL-2BG256C	XC4044XL-3BG352C		XC3142A-2PQ100I	XC3190A-1PC84C
XC4020XL-2BG256I	XC4044XL-3BG352I	XC9536XV-7PC44C	XC3142A-3PC84C	XC3190A-1PQ160C
XC4020XL-2HT144C	XC4044XL-3BG432C	XC9536XV-7PC44I	XC3142A-3PC84I	XC3190A-1TQ176C
XC4020XL-2HT144I	XC4044XL-3BG432I	XC9536XV-5PC44C	XC3142A-3PQ100C	XC3190A-2PC84C
XC4020XL-2PQ160C	XC4044XL-3HQ208C	XC9536XV-5CS48C	XC3142A-3PQ100I	XC3190A-2PC84I
XC4020XL-2PQ160I	XC4044XL-3HQ208I	XC9536XV-7CS48C	XC3142A-4PC84C	XC3190A-2PQ160C
XC4020XL-2PQ208C	XC4044XL-3HQ240C	XC9536XV-7CS48I	XC3142A-4PC84I	XC3190A-2PQ160I
XC4020XL-2PQ208I	XC4044XL-3HQ240I		XC3142A-4PQ100C	XC3190A-2TQ176C
XC4020XL-3BG256C		XC9572XV-7PC44C	XC3142A-4PQ100I	XC3190A-2TQ176I
XC4020XL-3BG256I	XC4003E-1PC84C	XC9572XV-7PC44I		XC3190A-3PC84C
XC4020XL-3HT144C	XC4003E-1PQ100C	XC9572XV-5PC44C	XC3164A-09PC84C	XC3190A-3PQ84I
XC4020XL-3HT144I	XC4003E-2PC84C	XC9572XV-5CS48C	XC3164A-09TQ144C	XC3190A-3PQ160C
XC4020XL-3PQ160C	XC4003E-2PC84I	XC9572XV-7CS48C	XC3164A-1PC84C	XC3190A-3PQ160I
XC4020XL-3PQ160I	XC4003E-2PQ100C	XC9572XV-7CS48I	XC3164A-1PQ160C	XC3190A-3TQ176C
XC4020XL-3PQ208C	XC4003E-2PQ100I		XC3164A-1TQ144C	XC3190A-3TQ176I
XC4020XL-3PQ208I	XC4003E-3PC84C	XC3130A-09PC84C	XC3164A-2PC84C	XC3190A-4PC84C

*Table 5 (Continued): Ordering Part Numbers Affected*

XC3190A-4PC84I	XC3195A-09PC84C	XC3195A-2PC84C	XC3195A-3PC84C	XC3195A-4PC84C
XC3190A-4PQ160C	XC3195A-09PQ160C	XC3195A-2PC84I	XC3195A-3PC84I	XC3195A-4PC84I
XC3190A-4PQ160I	XC3195A-1PQ84C	XC3195A-2PQ160C	XC3195A-3PQ160C	XC3195A-4PQ160C
XC3190A-4TQ176C	XC3195A-1PQ160C	XC3195A-2PQ160I	XC3195A-3PQ160I	XC3195A-4PQ160I
XC3190A-4TQ176I				

## Revision History

The following table shows the revision history for this document.

Date	Version	Revision
12/05/05	1.0	Initial Xilinx release.
02/28/06	1.0.1	Minor editorial updates: corrected placement of superscript notes and fixed device name typos in <a href="#">Table 1</a> , <a href="#">Table 2</a> , <a href="#">Table 3</a> , and <a href="#">Table 4</a> .
03/10/06	1.1	Added superscript note to XC3142A (TQ144) in <a href="#">Table 4</a> .
04/12/10	1.2	Removed some members of the XC4000E, XC4000XL, and XC3100A families from <a href="#">Appendix</a> . These parts have already been PDN'd on PDN2004-20 and PDN2004-21.

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