



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

XCN05020 (v1.1) March 10, 2006

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.**

NOTE: Some members of the XC4000E, XC4000XL, and XC3100A families (see footnotes in [Table 1](#), [Table 2](#), and [Table 4](#)) are previously discontinued per [PDN2004-20](#) and [PDN2004-21](#). For these devices, the final order and final delivery dates stated in PDN2004-20 and PDN2004-21 remain unchanged.

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.

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 ¹	HT176	All speed grades	Commercial and industrial temperature grades	
XC4020XL	BG256	All speed grades	Commercial and industrial temperature grades	XC4020XLA-BG256 ²
XC4020XL	PQ160	All speed grades	Commercial and industrial temperature grades	
XC4020XL	PQ208	All speed grades	Commercial and industrial temperature grades	XC4020XLA-PQ208 ²
XC4020XL ¹	PQ240	All speed grades	Commercial and industrial temperature grades	XC4020XLA-PQ240 ²
XC4044XL ¹	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 ¹	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

¹ Some members of the XC4000E and XC4000XL families are previously discontinued per [PDN2004-21](#).

² Indicates product with drop-in replacement capability.

Table 2: XC4000E Products Affected

XC4000E Family Member	Package	Speed Grade	Temperature Grade	Recommended Replacement
XC4003E	PC84	All speed grades	Commercial and industrial temperature grades	
XC4003E	PQ100	All speed grades	Commercial and industrial temperature grades	
XC4003E ¹	VQ100	All speed grades	Commercial and industrial temperature grades	
XC4006E ¹	PC84	All speed grades	Commercial and industrial temperature grades	
XC4006E ¹	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	

¹ Some members of the XC4000E and XC4000XL families are previously discontinued per [PDN2004-21](#).

Table 3: XC9500XV Products Affected

XC9500XV Family Member	Package	Speed Grade	Temperature Grade	Recommended Replacement
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

XC3100A Family Member	Package	Speed Grade	Temperature Grade	Recommended Replacement
XC3120A ¹	PC68	All speed grades	Commercial and industrial temperature grades	
XC3130A ¹	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 ¹	VQ100	All speed grades	Commercial and industrial temperature grades	
XC3142A	PC84	All speed grades	Commercial and industrial temperature grades	
XC3142A	PQ100	All speed grades	Commercial and industrial temperature grades	
XC3142A	VQ100	All speed grades	Commercial and industrial temperature grades	
XC3142A ¹	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	

Table 4: XC3100A Products Affected (Continued)

XC3100A Family Member	Package	Speed Grade	Temperature Grade	Recommended Replacement
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 ¹	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 ¹	PQ208	All speed grades	Commercial and industrial temperature grades	

¹ Some members of the XC3100A families are previously discontinued per [PDN2004-20](#).

Key Dates and Ordering

Final orders are accepted until December 1, 2006.

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

Response

Immediate response to this notice is not required. As was previously noted, some of the discontinued part numbers have direct pin-compatible replacements at higher densities. Others have several indirect replacements. Please contact your Xilinx Sales Representative for assistance in planning for device replacement. For additional information or questions, please contact [Xilinx Technical Support](#).

Important Notice: As of March 1, 2004, Xilinx Customer Notices (PCN, PDN, and Advisory) are delivered via e-mail alerts sent by the MySupport web site (<http://www.xilinx.com/support>). Register today and personalize your "MyAlerts" to include Customer Notices. This change 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, and so forth. For instructions on how to sign up, refer to [Xilinx Answer Record 18683](#).

Appendix

Table 5: Ordering Part Numbers Affected

XC4013XL-09HT144C	XC4044XL-09HQ240C	XC4003E-4PC84I	XC3130A-09PC68C	XC3142A-4PC84I
XC4013XL-1HT144C	XC4044XL-09HQ304C	XC4003E-4PQ100C	XC3130A-09PC84C	XC3142A-4PQ100C
XC4013XL-1HT144I	XC4044XL-1BG352C	XC4003E-4PQ100I	XC3130A-09PQ100C	XC3142A-4PQ100I
XC4013XL-2HT144C	XC4044XL-1BG352I	XC4003E-4VQ100C	XC3130A-09VQ100C	XC3142A-4TQ144C
XC4013XL-2HT144I	XC4044XL-1BG432C	XC4003E-4VQ100I	XC3130A-1PC68C	XC3142A-4TQ144I
XC4013XL-3HT144C	XC4044XL-1BG432I		XC3130A-1PC84C	XC3142A-4VQ100C
XC4013XL-3HT144I	XC4044XL-1HQ160C	XC4006E-1PC84C	XC3130A-1PQ100C	XC3142A-4VQ100I
	XC4044XL-1HQ160I	XC4006E-1PQ160C	XC3130A-1VQ100C	
XC4020XL-09BG256C	XC4044XL-1HQ208C	XC4006E-1PQ208C	XC3130A-2PC68C	XC3164A-09PC84C
XC4020XL-09HT144C	XC4044XL-1HQ208I	XC4006E-1TQ144C	XC3130A-2PC68I	XC3164A-09TQ144C
XC4020XL-09HT176C	XC4044XL-1HQ240C	XC4006E-2PC84C	XC3130A-2PQ100C	XC3164A-1PC84C
XC4020XL-09PQ160C	XC4044XL-1HQ240I	XC4006E-2PC84I	XC3130A-2PQ100I	XC3164A-1PQ160C
XC4020XL-09PQ208C	XC4044XL-1HQ304C	XC4006E-2PQ160C	XC3130A-2VQ100C	XC3164A-1TQ144C
XC4020XL-09PQ240C	XC4044XL-1HQ304I	XC4006E-2PQ160I	XC3130A-2VQ100I	XC3164A-2PC84C
XC4020XL-1BG256C	XC4044XL-2BG352C	XC4006E-2TQ144C	XC3130A-3PC68C	XC3164A-2PC84I
XC4020XL-1BG256I	XC4044XL-2BG352I	XC4006E-2TQ144I	XC3130A-3PC68I	XC3164A-2PQ160C
XC4020XL-1HT144C	XC4044XL-2BG432C	XC4006E-3PC84C	XC3130A-3PC84C	XC3164A-2PQ160I
XC4020XL-1HT144I	XC4044XL-2BG432I	XC4006E-3PC84I	XC3130A-3PC84I	XC3164A-2TQ144C
XC4020XL-1HT176C	XC4044XL-2HQ160C	XC4006E-3PQ160C	XC3130A-3PQ100C	XC3164A-3PC84C
XC4020XL-1HT176I	XC4044XL-2HQ160I	XC4006E-3PQ160I	XC3130A-3PQ100I	XC3164A-3PC84I
XC4020XL-1PQ160C	XC4044XL-2HQ208C	XC4006E-3PQ208C	XC3130A-3VQ100C	XC3164A-3PQ160C
XC4020XL-1PQ160I	XC4044XL-2HQ208I	XC4006E-3PQ208I	XC3130A-3VQ100I	XC3164A-3PQ160I
XC4020XL-1PQ208C	XC4044XL-2HQ240C	XC4006E-3TQ144C	XC3130A-4PC68C	XC3164A-3TQ144C
XC4020XL-1PQ208I	XC4044XL-2HQ240I	XC4006E-3TQ144I	XC3130A-4PC68I	XC3164A-3TQ144I
XC4020XL-1PQ240C	XC4044XL-2HQ304C	XC4006E-4PC84C	XC3130A-4PC84C	XC3164A-4PC84C
XC4020XL-1PQ240I	XC4044XL-2HQ304I	XC4006E-4PC84I	XC3130A-4PC84I	XC3164A-4PC84I
XC4020XL-2BG256C	XC4044XL-3BG352C	XC4006E-4PQ160C	XC3130A-4PQ100C	XC3164A-4PQ160C
XC4020XL-2BG256I	XC4044XL-3BG352I	XC4006E-4PQ160I	XC3130A-4PQ100I	XC3164A-4PQ160I
XC4020XL-2HT144C	XC4044XL-3BG432C	XC4006E-4PQ208C	XC3130A-4VQ100C	XC3164A-4TQ144C
XC4020XL-2HT144I	XC4044XL-3BG432I	XC4006E-4PQ208I	XC3130A-4VQ100I	XC3164A-4TQ144I
XC4020XL-2HT176C	XC4044XL-3HQ160C	XC4006E-4TQ144C		
XC4020XL-2HT176I	XC4044XL-3HQ160I	XC4006E-4TQ144I	XC3142A-09PC84C	XC3190A-09PC84C
XC4020XL-2PQ160C	XC4044XL-3HQ208C		XC3142A-09PQ100C	XC3190A-09PQ160C
XC4020XL-2PQ160I	XC4044XL-3HQ208I	XC9536XV-7PC44C	XC3142A-09TQ144C	XC3190A-09PQ208C
XC4020XL-2PQ208C	XC4044XL-3HQ240C	XC9536XV-7PC44I	XC3142A-09VQ100C	XC3190A-09TQ176C
XC4020XL-2PQ208I	XC4044XL-3HQ240I	XC9536XV-5PC44C	XC3142A-1PC84C	XC3190A-1PC84C
XC4020XL-2PQ240C	XC4044XL-3HQ304C	XC9536XV-5CS48C	XC3142A-1PQ100C	XC3190A-1PQ160C
XC4020XL-2PQ240I	XC4044XL-3HQ304I	XC9536XV-7CS48C	XC3142A-1TQ144C	XC3190A-1PQ208C
XC4020XL-3BG256C		XC9536XV-7CS48I	XC3142A-1VQ100C	XC3190A-1TQ176C
XC4020XL-3BG256I	XC4003E-1PC84C		XC3142A-2PC84C	XC3190A-2PC84C
XC4020XL-3HT144C	XC4003E-1PQ100C	XC9572XV-7PC44C	XC3142A-2PC84I	XC3190A-2PC84I
XC4020XL-3HT144I	XC4003E-1VQ100C	XC9572XV-7PC44I	XC3142A-2PQ100I	XC3190A-2PQ160C
XC4020XL-3HT176C	XC4003E-2PC84C	XC9572XV-5PC44C	XC3142A-2TQ144C	XC3190A-2PQ160I
XC4020XL-3HT176I	XC4003E-2PC84I	XC9572XV-5CS48C	XC3142A-2TQ144I	XC3190A-2PQ208C
XC4020XL-3PQ160C	XC4003E-2PQ100C	XC9572XV-7CS48C	XC3142A-2VQ100C	XC3190A-2PQ208I
XC4020XL-3PQ160I	XC4003E-2PQ100I	XC9572XV-7CS48I	XC3142A-2VQ100I	XC3190A-2TQ176C
XC4020XL-3PQ208C	XC4003E-2VQ100C		XC3142A-3PC84C	XC3190A-2TQ176I
XC4020XL-3PQ208I	XC4003E-2VQ100I	XC3120A-09PC68C	XC3142A-3PC84I	XC3190A-3PC84C
XC4020XL-3PQ240C	XC4003E-3PC84C	XC3120A-1PC68C	XC3142A-3PQ100C	XC3190A-3PQ84I
XC4020XL-3PQ240I	XC4003E-3PC84I	XC3120A-2PC68C	XC3142A-3PQ100I	XC3190A-3PQ160C
	XC4003E-3PQ100C	XC3120A-2PC68I	XC3142A-3TQ144C	XC3190A-3PQ160I
XC4044XL-09BG352C	XC4003E-3PQ100I	XC3120A-3PC68C	XC3142A-3TQ144I	XC3190A-3PQ208C
XC4044XL-09BG432C	XC4003E-3VQ100C	XC3120A-3PC68I	XC3142A-3VQ100C	XC3190A-3PQ208I
XC4044XL-09HQ160C	XC4003E-3VQ100I	XC3120A-4PC68C	XC3142A-3VQ100I	XC3190A-3TQ176C
XC4044XL-09HQ208C	XC4003E-4PC84C	XC3120A-4PC68I	XC3142A-4PC84C	XC3190A-3TQ176I

Table 5: Ordering Part Numbers Affected (Continued)

XC3190A-4PC84C
 XC3190A-4PC84I
 XC3190A-4PQ160C
 XC3190A-4PQ160I
 XC3190A-4PQ208C
 XC3190A-4PQ208I
 XC3190A-4TQ176C
 XC3190A-4TQ176I
 XC3190A-3PQ160C

XC3195A-09PC84C
 XC3195A-09PQ160C
 XC3195A-09PQ208C
 XC3195A-1PQ84C
 XC3195A-1PQ160C
 XC3195A-1PQ208C
 XC3195A-2PC84C
 XC3195A-2PC84I
 XC3195A-2PQ160C
 XC3195A-2PQ160I
 XC3195A-2PQ208C
 XC3195A-2PQ208I
 XC3195A-3PC84C
 XC3195A-3PC84I
 XC3195A-3PQ160C
 XC3195A-3PQ160I
 XC3195A-3PQ208C
 XC3195A-3PQ208I
 XC3195A-4PC84C
 XC3195A-4PC84I
 XC3195A-4PQ160C
 XC3195A-4PQ160I
 XC3195A-4PQ208C
 XC3195A-4PQ208I

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 Table 1 , Table 2 , Table 3 , and Table 4 .
03/10/06	1.1	Added superscript note to XC3142A (TQ144) in Table 4 .