Product Discontinuation Notice

Overview

The purpose of this notification is to communicate that Xilinx is discontinuing the original Spartan® and Virtex® FPGA products. This product discontinuance notice (PDN) applies to both **Commercial (C)** and **Industrial (I)** temperature grade products.

Description

As part of Xilinx regular product pruning activities the original Spartan and Virtex FPGA products have been identified for obsolescence. A list of special products under SCDs that are affected by this notice are also listed in this notice. (see Appendix A – All SCD Products Affected)

This notice should be used in conjunction with previous discontinuance notices which can be found at: http://www.xilinx.com/support/documentation/customer_notices.htm.

Products Affected

The products affected include all standard part numbers and specification control document (SCD) versions of the standard part numbers listed in this notice.

- Spartan Family FPGA Products Affected
- Virtex Family FPGA Products Affected
- Appendix A – All SCD Products Affected

Key Dates and Ordering Information

Final orders are accepted until October 18, 2011.

Final deliveries must occur on or April 18, 2012.

Return Material Authorizations (RMAs) for replacement devices will be accepted until October 18, 2012.

Table 1: Spartan Family FPGA Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XCS05-3VQ100C	No direct replacement	XCS20-4TQ144C	No direct replacement
XCS05-3VQ100I	No direct replacement	XCS20-4VQ100C	No direct replacement
XCS05-3VQG100C	No direct replacement	XCS30-3PQ208C	No direct replacement
XCS05-4VQ100C	No direct replacement	XCS30-3PQ208I	No direct replacement
XCS10-3TQ144C	No direct replacement	XCS30-3PQ240C	No direct replacement
XCS10-3VQ100C	No direct replacement	XCS30-3PQG208C	No direct replacement
XCS10-3VQ100I	No direct replacement	XCS30-3TQ144C	No direct replacement
XCS10-3VQG100C	No direct replacement	XCS30-3TQ144I	No direct replacement
XCS10-4TQ144C	No direct replacement	XCS30-4PQ208C	No direct replacement
XCS10-4VQ100C	No direct replacement	XCS30-4PQ240C	No direct replacement
XCS20-3PQ208C	No direct replacement	XCS30-4TQ144C	No direct replacement
XCS20-3PQ208I	No direct replacement	XCS40-3BG256C	No direct replacement
XCS20-3PQG208I	No direct replacement	XCS40-3PQ208C	No direct replacement
XCS20-3TQ144C	No direct replacement	XCS40-3PQ208I	No direct replacement
XCS20-3TQ144I	No direct replacement	XCS40-3PQ240C	No direct replacement
XCS20-3TQG144I	No direct replacement	XCS40-4BG256C	No direct replacement
XCS20-3VQ100C	No direct replacement	XCS40-4PQ208C	No direct replacement
XCS20-3VQG100C	No direct replacement	XCS40-4PQ240C	No direct replacement
XCS20-4PQ208C	No direct replacement		

NOTE:

1. The last version of software supporting this original Spartan FPGA family is ISE® 4.2, which is available for download as "ISE Classics" in the following location:
http://www.xilinx.com/webpack/classics/spartan_4k/index.htm

Table 2: Virtex Family FPGA Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XCV50-4BG256C	No direct replacement	XCV50-4TQG144C	No direct replacement
XCV50-4BG256I	No direct replacement	XCV50-4TQG144I	No direct replacement
XCV50-4BGG256C	No direct replacement	XCV50-5BG256C	No direct replacement
XCV50-4BGG256I	No direct replacement	XCV50-5BG256I	No direct replacement
XCV50-4CS144C	No direct replacement	XCV50-5BGG256C	No direct replacement
XCV50-4CS144I	No direct replacement	XCV50-5BGG256I	No direct replacement
XCV50-4CSG144C	No direct replacement	XCV50-5CS144C	No direct replacement
XCV50-4CSG144I	No direct replacement	XCV50-5CS144I	No direct replacement
XCV50-4FG256C	No direct replacement	XCV50-5CSG144C	No direct replacement
XCV50-4FG256I	No direct replacement	XCV50-5CSG144I	No direct replacement
XCV50-4FGG256C	No direct replacement	XCV50-5FG256C	No direct replacement
XCV50-4FGG256I	No direct replacement	XCV50-5FG256I	No direct replacement
XCV50-4PQ240C	No direct replacement	XCV50-5FGG256C	No direct replacement
XCV50-4PQ240I	No direct replacement	XCV50-5FGG256I	No direct replacement
XCV50-4PQG240C	No direct replacement	XCV50-5PQ240C	No direct replacement
XCV50-4PQG240I	No direct replacement	XCV50-5PQ240I	No direct replacement
XCV50-4TQ144C	No direct replacement	XCV50-5PQG240C	No direct replacement
XCV50-4TQ144I	No direct replacement	XCV50-5PQG240I	No direct replacement

Table 2 (Continued): **Virtex Family FPGA Products Affected**

Part Number	Replacement Part	Part Number	Replacement Part
XCV50-5TQ144C	No direct replacement	XCV100-5PQ240C	No direct replacement
XCV50-5TQ144I	No direct replacement	XCV100-5PQ240I	No direct replacement
XCV50-5TQG144C	No direct replacement	XCV100-5PQG240C	No direct replacement
XCV50-5TQG144I	No direct replacement	XCV100-5PQG240I	No direct replacement
XCV50-6BG256C	No direct replacement	XCV100-5TQ144C	No direct replacement
XCV50-6BGG256C	No direct replacement	XCV100-5TQ144I	No direct replacement
XCV50-6CS144C	No direct replacement	XCV100-5TQG144C	No direct replacement
XCV50-6CSG144C	No direct replacement	XCV100-5TQG144I	No direct replacement
XCV50-6FG256C	No direct replacement	XCV100-6BG256C	No direct replacement
XCV50-6FGG256C	No direct replacement	XCV100-6BGG256C	No direct replacement
XCV50-6PQ240C	No direct replacement	XCV100-6CS144C	No direct replacement
XCV50-6PQG240C	No direct replacement	XCV100-6CSG144C	No direct replacement
XCV50-6TQ144C	No direct replacement	XCV100-6FG256C	No direct replacement
XCV50-6TQG144C	No direct replacement	XCV100-6FGG256C	No direct replacement
XCV100-4BG256C	No direct replacement	XCV100-6PQ240C	No direct replacement
XCV100-4BG256I	No direct replacement	XCV100-6PQG240C	No direct replacement
XCV100-4BGG256C	No direct replacement	XCV100-6TQ144C	No direct replacement
XCV100-4BGG256I	No direct replacement	XCV100-6TQG144C	No direct replacement
XCV100-4CS144C	No direct replacement	XCV150-4BG256C	No direct replacement
XCV100-4CS144I	No direct replacement	XCV150-4BG256I	No direct replacement
XCV100-4CSG144C	No direct replacement	XCV150-4BG352C	No direct replacement
XCV100-4CSG144I	No direct replacement	XCV150-4BG352I	No direct replacement
XCV100-4FG256C	No direct replacement	XCV150-4BGG256C	No direct replacement
XCV100-4FG256I	No direct replacement	XCV150-4BGG256I	No direct replacement
XCV100-4FGG256C	No direct replacement	XCV150-4BGG352C	No direct replacement
XCV100-4FGG256I	No direct replacement	XCV150-4BGG352I	No direct replacement
XCV100-4PQ240C	No direct replacement	XCV150-4FG256C	No direct replacement
XCV100-4PQ240I	No direct replacement	XCV150-4FG256I	No direct replacement
XCV100-4PQG240C	No direct replacement	XCV150-4FG456C	No direct replacement
XCV100-4PQG240I	No direct replacement	XCV150-4FG456I	No direct replacement
XCV100-4TQ144C	No direct replacement	XCV150-4FGG256C	No direct replacement
XCV100-4TQ144I	No direct replacement	XCV150-4FGG256I	No direct replacement
XCV100-4TQG144C	No direct replacement	XCV150-4FGG456C	No direct replacement
XCV100-4TQG144I	No direct replacement	XCV150-4FGG456I	No direct replacement
XCV100-5BG256C	No direct replacement	XCV150-4PQ240C	No direct replacement
XCV100-5BG256I	No direct replacement	XCV150-4PQ240I	No direct replacement
XCV100-5BGG256C	No direct replacement	XCV150-4PQG240C	No direct replacement
XCV100-5BGG256I	No direct replacement	XCV150-4PQG240I	No direct replacement
XCV100-5CS144C	No direct replacement	XCV150-5BG256C	No direct replacement
XCV100-5CS144I	No direct replacement	XCV150-5BG256I	No direct replacement
XCV100-5CSG144C	No direct replacement	XCV150-5BG352C	No direct replacement
XCV100-5CSG144I	No direct replacement	XCV150-5BG352I	No direct replacement
XCV100-5FG256C	No direct replacement	XCV150-5BGG256C	No direct replacement
XCV100-5FG256I	No direct replacement	XCV150-5BGG256I	No direct replacement
XCV100-5FGG256C	No direct replacement	XCV150-5BGG352C	No direct replacement
XCV100-5FGG256I	No direct replacement	XCV150-5BGG352I	No direct replacement

Table 2 (Continued): **Virtex Family FPGA Products Affected**

Part Number	Replacement Part	Part Number	Replacement Part
XCV150-5FG256C	No direct replacement	XCV200-5BG352I	No direct replacement
XCV150-5FG256I	No direct replacement	XCV200-5BGG256C	No direct replacement
XCV150-5FG456C	No direct replacement	XCV200-5BGG256I	No direct replacement
XCV150-5FG456I	No direct replacement	XCV200-5BGG352C	No direct replacement
XCV150-5FGG256C	No direct replacement	XCV200-5BGG352I	No direct replacement
XCV150-5FGG256I	No direct replacement	XCV200-5FG256C	No direct replacement
XCV150-5FGG456C	No direct replacement	XCV200-5FG256I	No direct replacement
XCV150-5FGG456I	No direct replacement	XCV200-5FG456C	No direct replacement
XCV150-5PQ240C	No direct replacement	XCV200-5FG456I	No direct replacement
XCV150-5PQ240I	No direct replacement	XCV200-5FGG256C	No direct replacement
XCV150-5PQG240C	No direct replacement	XCV200-5FGG256I	No direct replacement
XCV150-5PQG240I	No direct replacement	XCV200-5FGG456C	No direct replacement
XCV150-6BG256C	No direct replacement	XCV200-5FGG456I	No direct replacement
XCV150-6BG352C	No direct replacement	XCV200-5PQ240C	No direct replacement
XCV150-6BGG256C	No direct replacement	XCV200-5PQ240I	No direct replacement
XCV150-6BGG352C	No direct replacement	XCV200-5PQG240C	No direct replacement
XCV150-6FG256C	No direct replacement	XCV200-5PQG240I	No direct replacement
XCV150-6FG456C	No direct replacement	XCV200-6BG256C	No direct replacement
XCV150-6FGG256C	No direct replacement	XCV200-6BG352C	No direct replacement
XCV150-6FGG456C	No direct replacement	XCV200-6BGG256C	No direct replacement
XCV150-6PQ240C	No direct replacement	XCV200-6BGG352C	No direct replacement
XCV150-6PQG240C	No direct replacement	XCV200-6FG256C	No direct replacement
XCV200-4BG256C	No direct replacement	XCV200-6FG456C	No direct replacement
XCV200-4BG256I	No direct replacement	XCV200-6FGG256C	No direct replacement
XCV200-4BG352C	No direct replacement	XCV200-6FGG456C	No direct replacement
XCV200-4BG352I	No direct replacement	XCV200-6PQ240C	No direct replacement
XCV200-4BGG256C	No direct replacement	XCV200-6PQG240C	No direct replacement
XCV200-4BGG256I	No direct replacement	XCV300-4BG352C	No direct replacement
XCV200-4BGG352C	No direct replacement	XCV300-4BG352I	No direct replacement
XCV200-4BGG352I	No direct replacement	XCV300-4BG432C	No direct replacement
XCV200-4FG256C	No direct replacement	XCV300-4BG432I	No direct replacement
XCV200-4FG256I	No direct replacement	XCV300-4BGG352C	No direct replacement
XCV200-4FG456C	No direct replacement	XCV300-4BGG352I	No direct replacement
XCV200-4FG456I	No direct replacement	XCV300-4BGG432C	No direct replacement
XCV200-4FGG256C	No direct replacement	XCV300-4BGG432I	No direct replacement
XCV200-4FGG256I	No direct replacement	XCV300-4FG456C	No direct replacement
XCV200-4FGG456C	No direct replacement	XCV300-4FG456I	No direct replacement
XCV200-4FGG456I	No direct replacement	XCV300-4FGG456C	No direct replacement
XCV200-4PQ240C	No direct replacement	XCV300-4FGG456I	No direct replacement
XCV200-4PQ240I	No direct replacement	XCV300-4PQ240C	No direct replacement
XCV200-4PQG240C	No direct replacement	XCV300-4PQ240I	No direct replacement
XCV200-4PQG240I	No direct replacement	XCV300-4PQG240C	No direct replacement
XCV200-5BG256C	No direct replacement	XCV300-4PQG240I	No direct replacement
XCV200-5BG256I	No direct replacement	XCV300-5BG352C	No direct replacement
XCV200-5BG352C	No direct replacement	XCV300-5BG352I	No direct replacement

Table 2 (Continued): **Virtex Family FPGA Products Affected**

Part Number	Replacement Part	Part Number	Replacement Part
XCV300-5BG432C	No direct replacement	XCV400-6FG676C	No direct replacement
XCV300-5BG432I	No direct replacement	XCV600-4BG432C	No direct replacement
XCV300-5BGG352C	No direct replacement	XCV600-4BG432I	No direct replacement
XCV300-5BGG352I	No direct replacement	XCV600-4BG560C	No direct replacement
XCV300-5BGG432C	No direct replacement	XCV600-4BG560I	No direct replacement
XCV300-5BGG432I	No direct replacement	XCV600-4BGG432C	No direct replacement
XCV300-5FG456C	No direct replacement	XCV600-4BGG432I	No direct replacement
XCV300-5FG456I	No direct replacement	XCV600-4BGG560C	No direct replacement
XCV300-5FGG456C	No direct replacement	XCV600-4BGG560I	No direct replacement
XCV300-5FGG456I	No direct replacement	XCV600-4FG676C	No direct replacement
XCV300-5PQ240C	No direct replacement	XCV600-4FG676I	No direct replacement
XCV300-5PQ240I	No direct replacement	XCV600-4FG680C	No direct replacement
XCV300-5PQG240C	No direct replacement	XCV600-4FG680I	No direct replacement
XCV300-5PQG240I	No direct replacement	XCV600-4FGG680C	No direct replacement
XCV300-6BG352C	No direct replacement	XCV600-4FGG680I	No direct replacement
XCV300-6BG432C	No direct replacement	XCV600-5BG432C	No direct replacement
XCV300-6BGG352C	No direct replacement	XCV600-5BG432I	No direct replacement
XCV300-6BGG432C	No direct replacement	XCV600-5BG560C	No direct replacement
XCV300-6FG456C	No direct replacement	XCV600-5BG560I	No direct replacement
XCV300-6FGG456C	No direct replacement	XCV600-5BGG432C	No direct replacement
XCV300-6PQ240C	No direct replacement	XCV600-5BGG432I	No direct replacement
XCV300-6PQG240C	No direct replacement	XCV600-5BGG560C	No direct replacement
XCV400-4BG432C	No direct replacement	XCV600-5BGG560I	No direct replacement
XCV400-4BG432I	No direct replacement	XCV600-5FG676C	No direct replacement
XCV400-4BG560C	No direct replacement	XCV600-5FG676I	No direct replacement
XCV400-4BG560I	No direct replacement	XCV600-5FG680C	No direct replacement
XCV400-4BGG432C	No direct replacement	XCV600-5FG680I	No direct replacement
XCV400-4BGG432I	No direct replacement	XCV600-5FGG680C	No direct replacement
XCV400-4BGG560C	No direct replacement	XCV600-5FGG680I	No direct replacement
XCV400-4BGG560I	No direct replacement	XCV600-6BG432C	No direct replacement
XCV400-4FG676C	No direct replacement	XCV600-6BG560C	No direct replacement
XCV400-4FG676I	No direct replacement	XCV600-6BGG432C	No direct replacement
XCV400-5BG432C	No direct replacement	XCV600-6BGG560C	No direct replacement
XCV400-5BG432I	No direct replacement	XCV600-6FG676C	No direct replacement
XCV400-5BG560C	No direct replacement	XCV600-6FG680C	No direct replacement
XCV400-5BG560I	No direct replacement	XCV600-6FGG680C	No direct replacement
XCV400-5BGG432C	No direct replacement	XCV800-4BG432C	No direct replacement
XCV400-5BGG432I	No direct replacement	XCV800-4BG432I	No direct replacement
XCV400-5BGG560C	No direct replacement	XCV800-4BG560C	No direct replacement
XCV400-5BGG560I	No direct replacement	XCV800-4BG560I	No direct replacement
XCV400-5FG676C	No direct replacement	XCV800-4BGG432C	No direct replacement
XCV400-5FG676I	No direct replacement	XCV800-4BGG432I	No direct replacement
XCV400-6BG432C	No direct replacement	XCV800-4BGG560C	No direct replacement
XCV400-6BG560C	No direct replacement	XCV800-4BGG560I	No direct replacement
XCV400-6BGG432C	No direct replacement	XCV800-4FG676C	No direct replacement
XCV400-6BGG560C	No direct replacement	XCV800-4FG676I	No direct replacement

Table 2 (Continued): Virtex Family FPGA Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XCV800-4FG680C	No direct replacement	XCV800-6BG432C	No direct replacement
XCV800-4FG680I	No direct replacement	XCV800-6BG560C	No direct replacement
XCV800-4FGG680C	No direct replacement	XCV800-6BGG432C	No direct replacement
XCV800-4FGG680I	No direct replacement	XCV800-6BGG560C	No direct replacement
XCV800-5BG432C	No direct replacement	XCV800-6FG676C	No direct replacement
XCV800-5BG432I	No direct replacement	XCV800-6FG680C	No direct replacement
XCV800-5BG560C	No direct replacement	XCV800-6FGG680C	No direct replacement
XCV800-5BG560I	No direct replacement	XCV1000-4BG560C	No direct replacement
XCV800-5BGG432C	No direct replacement	XCV1000-4BG560I	No direct replacement
XCV800-5BGG432I	No direct replacement	XCV1000-4FG680C	No direct replacement
XCV800-5BGG560C	No direct replacement	XCV1000-4FG680I	No direct replacement
XCV800-5BGG560I	No direct replacement	XCV1000-5BG560C	No direct replacement
XCV800-5FG676C	No direct replacement	XCV1000-5BG560I	No direct replacement
XCV800-5FG676I	No direct replacement	XCV1000-5FG680C	No direct replacement
XCV800-5FG680C	No direct replacement	XCV1000-5FG680I	No direct replacement
XCV800-5FG680I	No direct replacement	XCV1000-6BG560C	No direct replacement
XCV800-5FGG680C	No direct replacement	XCV1000-6FG680C	No direct replacement
XCV800-5FGG680I	No direct replacement		

NOTE:

1. The last version of software supporting this original Virtex FPGA family is ISE® 10.1, which can be downloaded on http://www.xilinx.com/support/download/index.htm

Appendix A – All SCD Products Affected

Table 3: Spartan Family FPGA SCD Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XCS10-3TQ144C0280	No direct replacement	XCS30-4TQ144C0280	No direct replacement
XCS20-3PQ208C0280	No direct replacement	XCS40-3PQ208C0280	No direct replacement
XCS20-3TQ144C0280	No direct replacement	XCS40-3PQ208C0520	No direct replacement
XCS30-3PQ240C0280	No direct replacement	XCS40-3PQ240C0280	No direct replacement
XCS30-4PQ208C0280	No direct replacement		

Table 4: Virtex Family FPGA SCD Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XCV50-6TQ144C0641	No direct replacement	XCV400-5BG560C0729	No direct replacement
XCV150-4BG352C0732	No direct replacement	XCV400-5BG560C0756	No direct replacement
XCV150-4BG352C0945	No direct replacement	XCV400-5BG560I0729	No direct replacement
XCV300-4BG432C0712	No direct replacement	XCV400-6BG432C0729	No direct replacement
XCV300-4BG432C0729	No direct replacement	XCV400-6FG676C0729	No direct replacement
XCV300-4FG456C0712	No direct replacement	XCV600-4BG432C0729	No direct replacement
XCV300-4FG456C0729	No direct replacement	XCV600-4BG560C0729	No direct replacement
XCV300-4PQ240C0712	No direct replacement	XCV600-4FG676C0729	No direct replacement
XCV300-4PQ240C0729	No direct replacement	XCV600-5BG432C0729	No direct replacement
XCV300-4PQ240I0693	No direct replacement	XCV600-5BG560C0729	No direct replacement
XCV300-5BG352C0777	No direct replacement	XCV600-5FG680I0729	No direct replacement
XCV300-5BG432C0641	No direct replacement	XCV800-4BG560C0729	No direct replacement
XCV300-5BG432C0712	No direct replacement	XCV800-4FG676C0729	No direct replacement
XCV300-5BG432C0729	No direct replacement	XCV1000-4FG680C0712	No direct replacement
XCV300-5BG432I0729	No direct replacement	XCV1000-4FG680C0729	No direct replacement
XCV400-4BG432C0729	No direct replacement	XCV1000-5BG560C0712	No direct replacement
XCV400-4BG560C0280	No direct replacement	XCV1000-5BG560C0729	No direct replacement
XCV400-4BG560C0729	No direct replacement	XCV1000-5FG680C0712	No direct replacement
XCV400-4FG676C0729	No direct replacement	XCV1000-6BG560C0712	No direct replacement

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.

Important Notice:
Xilinx Customer Notifications (XCNs, XDNs, and Quality Alerts) can be delivered via e-mail alerts sent by the MySupport website (http://www.xilinx.com/support). Register today and personalize your "MyAlerts" area to include Customer Notifications. Xilinx MySupport 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.

Revision History

The following table shows the revision history for this document.

Date	Version	Revision
10/18/2010	1.0	Initial release.

Notice of Disclaimer

THE XILINX HARDWARE FPGA AND CPLD DEVICES REFERRED TO HEREIN ("PRODUCTS") ARE SUBJECT TO THE TERMS AND CONDITIONS OF THE XILINX LIMITED WARRANTY WHICH CAN BE VIEWED AT http://www.xilinx.com/warranty.htm. THIS LIMITED WARRANTY DOES NOT EXTEND TO ANY USE OF PRODUCTS IN AN APPLICATION OR ENVIRONMENT THAT IS NOT WITHIN THE SPECIFICATIONS STATED ON THE XILINX DATA SHEET. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. PRODUCTS ARE NOT DESIGNED OR INTENDED TO BE FAIL-SAFE, OR FOR USE IN ANY APPLICATION REQUIRING FAIL-SAFE PERFORMANCE, SUCH AS LIFESUPPORT OR SAFETY DEVICES OR SYSTEMS, OR ANY OTHER APPLICATION THAT INVOKES THE POTENTIAL RISKS OF DEATH, PERSONAL INJURY OR PROPERTY OR ENVIRONMENTAL DAMAGE ("CRITICAL APPLICATIONS"). USE OF PRODUCTS IN CRITICAL APPLICATIONS IS AT THE SOLE RISK OF CUSTOMER, SUBJECT TO APPLICABLE LAWS AND REGULATIONS. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.