

## Overview

The purpose of this notification is to communicate that Xilinx is discontinuing the Spartan<sup>®</sup>-XL FPGA and the XC9500 In-System Programmable CPLD products. This product discontinuance applies to **Commercial (C)**, **Industrial (I)** and **Automotive (Q)** temperature grade products.

In addition, Xilinx is discontinuing all Automotive IQ Family offerings of Spartan<sup>®</sup>-II FPGA products and CoolRunner<sup>™</sup> XPLA3 CPLD products - this discontinuance applies only to **Automotive IQ (Q)** temperature grade products. The parts listed in this product discontinuation notice will be discontinued regardless if being used in an automotive or non-automotive application. No Automotive "XA" products are affected by this notification.

## Description

As part of Xilinx regular product pruning activities the Spartan-XL FPGA products, 5.0V XC9500 CPLD products and some original Automotive IQ family 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](http://www.xilinx.com/support/documentation/customer_notices.htm).

The PROM devices used to configure Spartan-XL FPGA family devices have already been discontinued via [XCN09002](#). For details on final order and final delivery dates please consult the document at [http://www.xilinx.com/support/documentation/customer\\_notices/xcn09002.pdf](http://www.xilinx.com/support/documentation/customer_notices/xcn09002.pdf).

## 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-XL Family FPGA Products Affected](#)
- [XC9500 In-System Programmable CPLD Products Affected](#)
- [Automotive IQ Spartan-II Family FPGA Products Affected](#)
- [Automotive IQ CoolRunner XPLA3 CPLD Products Affected](#)
- [Appendix A – All SCD Products Affected](#)

## Key Dates and Ordering Information

Final orders are accepted until October 17, 2012.

Final deliveries must occur on or before April 20, 2013.

Return Material Authorizations (RMAs) for replacement devices will be accepted until October 17, 2013.

## Technical Support

For Technical Support on these products refer to Solution Center [Xilinx Answer Record 40174](#). Support for these products will be limited to tools usage and existing documentation.

Table 1: Spartan-XL Family FPGA Products Affected

Part Number	Replacement Part
XCS05XL-4VQ100C	No direct replacement
XCS05XL-4VQ100I	No direct replacement
XCS05XL-4VQG100C	No direct replacement
XCS05XL-4VQG100I	No direct replacement
XCS05XL-5VQ100C	No direct replacement
XCS05XL-5VQG100C	No direct replacement
XCS10XL-4TQ144C	No direct replacement
XCS10XL-4TQG144C	No direct replacement
XCS10XL-4VQ100C	No direct replacement
XCS10XL-4VQ100I	No direct replacement
XCS10XL-4VQ100Q	No direct replacement
XCS10XL-4VQG100C	No direct replacement
XCS10XL-4VQG100I	No direct replacement
XCS10XL-5TQ144C	No direct replacement
XCS10XL-5TQG144C	No direct replacement
XCS10XL-5VQ100C	No direct replacement
XCS10XL-5VQG100C	No direct replacement
XCS20XL-4PQ208C	No direct replacement
XCS20XL-4PQ208I	No direct replacement
XCS20XL-4PQG208C	No direct replacement
XCS20XL-4PQG208I	No direct replacement
XCS20XL-4TQ144C	No direct replacement
XCS20XL-4TQ144I	No direct replacement
XCS20XL-4TQ144Q	No direct replacement
XCS20XL-4TQG144C	No direct replacement
XCS20XL-4TQG144I	No direct replacement
XCS20XL-4VQ100C	No direct replacement
XCS20XL-4VQ100I	No direct replacement
XCS20XL-4VQ100Q	No direct replacement
XCS20XL-4VQG100C	No direct replacement
XCS20XL-4VQG100I	No direct replacement
XCS20XL-5PQ208C	No direct replacement
XCS20XL-5PQG208C	No direct replacement
XCS20XL-5TQ144C	No direct replacement
XCS20XL-5TQG144C	No direct replacement
XCS20XL-5VQ100C	No direct replacement
XCS20XL-5VQG100C	No direct replacement
XCS30XL-4BG256C	No direct replacement
XCS30XL-4BGG256C	No direct replacement
XCS30XL-4BGG256I	No direct replacement
XCS30XL-4PQ208C	No direct replacement
XCS30XL-4PQ208I	No direct replacement
XCS30XL-4PQ208Q	No direct replacement

Part Number	Replacement Part
XCS30XL-4PQ240C	No direct replacement
XCS30XL-4PQG208C	No direct replacement
XCS30XL-4PQG208I	No direct replacement
XCS30XL-4PQG240C	No direct replacement
XCS30XL-4PQG240I	No direct replacement
XCS30XL-4TQ144C	No direct replacement
XCS30XL-4TQ144I	No direct replacement
XCS30XL-4TQ144Q	No direct replacement
XCS30XL-4TQG144C	No direct replacement
XCS30XL-4TQG144I	No direct replacement
XCS30XL-4VQ100C	No direct replacement
XCS30XL-4VQ100I	No direct replacement
XCS30XL-4VQG100C	No direct replacement
XCS30XL-4VQG100I	No direct replacement
XCS30XL-5BG256C	No direct replacement
XCS30XL-5BGG256C	No direct replacement
XCS30XL-5PQ208C	No direct replacement
XCS30XL-5PQ240C	No direct replacement
XCS30XL-5PQG208C	No direct replacement
XCS30XL-5PQG240C	No direct replacement
XCS30XL-5TQ144C	No direct replacement
XCS30XL-5TQG144C	No direct replacement
XCS30XL-5VQ100C	No direct replacement
XCS30XL-5VQG100C	No direct replacement
XCS40XL-4BG256C	No direct replacement
XCS40XL-4BG256I	No direct replacement
XCS40XL-4BGG256C	No direct replacement
XCS40XL-4BGG256I	No direct replacement
XCS40XL-4PQ208C	No direct replacement
XCS40XL-4PQ208I	No direct replacement
XCS40XL-4PQ208Q	No direct replacement
XCS40XL-4PQ240C	No direct replacement
XCS40XL-4PQG208C	No direct replacement
XCS40XL-4PQG208I	No direct replacement
XCS40XL-4PQG240C	No direct replacement
XCS40XL-4PQG240I	No direct replacement
XCS40XL-5BG256C	No direct replacement
XCS40XL-5BGG256C	No direct replacement
XCS40XL-5PQ208C	No direct replacement
XCS40XL-5PQ240C	No direct replacement
XCS40XL-5PQG208C	No direct replacement
XCS40XL-5PQG240C	No direct replacement

**NOTE:**

1. The last version of software supporting the Spartan-XL 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](http://www.xilinx.com/webpack/classics/spartan_4k/index.htm).

**Table 2: XC9500 In-System Programmable CPLD Products Affected**

<b>Part Number</b>	<b>Replacement Part</b>	<b>Part Number</b>	<b>Replacement Part</b>
XC95108-10PC84C	No direct replacement	XC95108-20TQG100I	No direct replacement
XC95108-10PC84I	No direct replacement	XC95108-7PC84C	No direct replacement
XC95108-10PCG84C	No direct replacement	XC95108-7PC84I	No direct replacement
XC95108-10PCG84I	No direct replacement	XC95108-7PCG84C	No direct replacement
XC95108-10PQ100C	No direct replacement	XC95108-7PCG84I	No direct replacement
XC95108-10PQ100I	No direct replacement	XC95108-7PQ100C	No direct replacement
XC95108-10PQ160C	No direct replacement	XC95108-7PQ100I	No direct replacement
XC95108-10PQ160I	No direct replacement	XC95108-7PQ160C	No direct replacement
XC95108-10PQG100C	No direct replacement	XC95108-7PQ160I	No direct replacement
XC95108-10PQG100I	No direct replacement	XC95108-7PQG100C	No direct replacement
XC95108-10PQG160C	No direct replacement	XC95108-7PQG100I	No direct replacement
XC95108-10PQG160I	No direct replacement	XC95108-7PQG160C	No direct replacement
XC95108-10TQ100C	No direct replacement	XC95108-7PQG160I	No direct replacement
XC95108-10TQ100I	No direct replacement	XC95108-7TQ100C	No direct replacement
XC95108-10TQG100C	No direct replacement	XC95108-7TQ100I	No direct replacement
XC95108-10TQG100I	No direct replacement	XC95108-7TQG100C	No direct replacement
XC95108-15PC84C	No direct replacement	XC95108-7TQG100I	No direct replacement
XC95108-15PC84I	No direct replacement	XC95144-10PQ100C	No direct replacement
XC95108-15PCG84C	No direct replacement	XC95144-10PQ100I	No direct replacement
XC95108-15PCG84I	No direct replacement	XC95144-10PQ160C	No direct replacement
XC95108-15PQ100C	No direct replacement	XC95144-10PQ160I	No direct replacement
XC95108-15PQ100I	No direct replacement	XC95144-10PQG100C	No direct replacement
XC95108-15PQ160C	No direct replacement	XC95144-10PQG100I	No direct replacement
XC95108-15PQ160I	No direct replacement	XC95144-10PQG160C	No direct replacement
XC95108-15PQG100C	No direct replacement	XC95144-10PQG160I	No direct replacement
XC95108-15PQG100I	No direct replacement	XC95144-10TQ100C	No direct replacement
XC95108-15PQG160C	No direct replacement	XC95144-10TQ100I	No direct replacement
XC95108-15PQG160I	No direct replacement	XC95144-10TQG100C	No direct replacement
XC95108-15TQ100C	No direct replacement	XC95144-10TQG100I	No direct replacement
XC95108-15TQ100I	No direct replacement	XC95144-15PQ100C	No direct replacement
XC95108-15TQG100C	No direct replacement	XC95144-15PQ100I	No direct replacement
XC95108-15TQG100I	No direct replacement	XC95144-15PQ160C	No direct replacement
XC95108-20PC84C	No direct replacement	XC95144-15PQ160I	No direct replacement
XC95108-20PC84I	No direct replacement	XC95144-15PQG100C	No direct replacement
XC95108-20PCG84C	No direct replacement	XC95144-15PQG100I	No direct replacement
XC95108-20PCG84I	No direct replacement	XC95144-15PQG160C	No direct replacement
XC95108-20PQ100C	No direct replacement	XC95144-15PQG160I	No direct replacement
XC95108-20PQ100I	No direct replacement	XC95144-15TQ100C	No direct replacement
XC95108-20PQ160C	No direct replacement	XC95144-15TQ100I	No direct replacement
XC95108-20PQ160I	No direct replacement	XC95144-15TQG100C	No direct replacement
XC95108-20PQG100C	No direct replacement	XC95144-15TQG100I	No direct replacement
XC95108-20PQG100I	No direct replacement	XC95144-7PQ100C	No direct replacement
XC95108-20PQG160C	No direct replacement	XC95144-7PQ160C	No direct replacement
XC95108-20PQG160I	No direct replacement	XC95144-7PQG100C	No direct replacement
XC95108-20TQ100C	No direct replacement	XC95144-7PQG160C	No direct replacement
XC95108-20TQ100I	No direct replacement	XC95144-7TQ100C	No direct replacement
XC95108-20TQG100C	No direct replacement	XC95144-7TQG100C	No direct replacement

Table 2 (Continued): XC9500 In-System Programmable CPLD Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XC95216-10PQ160C	No direct replacement	XC9536-5VQ44C	No direct replacement
XC95216-10PQ160I	No direct replacement	XC9536-5VQG44C	No direct replacement
XC95216-10PQG160C	No direct replacement	XC9536-6PC44C	No direct replacement
XC95216-10PQG160I	No direct replacement	XC9536-6PCG44C	No direct replacement
XC95216-15PQ160C	No direct replacement	XC9536-6VQ44C	No direct replacement
XC95216-15PQ160I	No direct replacement	XC9536-6VQG44C	No direct replacement
XC95216-15PQG160C	No direct replacement	XC9536-7CS48C	No direct replacement
XC95216-15PQG160I	No direct replacement	XC9536-7CSG48C	No direct replacement
XC95216-20PQ160C	No direct replacement	XC9536-7PC44C	No direct replacement
XC95216-20PQ160I	No direct replacement	XC9536-7PC44I	No direct replacement
XC95216-20PQG160C	No direct replacement	XC9536-7PCG44C	No direct replacement
XC95216-20PQG160I	No direct replacement	XC9536-7PCG44I	No direct replacement
XC95288-10BG352C	No direct replacement	XC9536-7VQ44C	No direct replacement
XC95288-10BGG352C	No direct replacement	XC9536-7VQ44I	No direct replacement
XC95288-15BG352C	No direct replacement	XC9536-7VQG44C	No direct replacement
XC95288-15BG352I	No direct replacement	XC9536-7VQG44I	No direct replacement
XC95288-15BGG352C	No direct replacement	XC9572-10PC44C	No direct replacement
XC95288-15BGG352I	No direct replacement	XC9572-10PC44I	No direct replacement
XC95288-20BG352C	No direct replacement	XC9572-10PC84C	No direct replacement
XC95288-20BG352I	No direct replacement	XC9572-10PC84I	No direct replacement
XC95288-20BGG352C	No direct replacement	XC9572-10PCG44C	No direct replacement
XC95288-20BGG352I	No direct replacement	XC9572-10PCG44I	No direct replacement
XC9536-10CS48C	No direct replacement	XC9572-10PCG84C	No direct replacement
XC9536-10CS48I	No direct replacement	XC9572-10PCG84I	No direct replacement
XC9536-10CSG48C	No direct replacement	XC9572-10PQ100C	No direct replacement
XC9536-10CSG48I	No direct replacement	XC9572-10PQ100I	No direct replacement
XC9536-10PC44C	No direct replacement	XC9572-10PQG100C	No direct replacement
XC9536-10PC44I	No direct replacement	XC9572-10PQG100I	No direct replacement
XC9536-10PCG44C	No direct replacement	XC9572-10TQ100C	No direct replacement
XC9536-10PCG44I	No direct replacement	XC9572-10TQ100I	No direct replacement
XC9536-10VQ44C	No direct replacement	XC9572-10TQG100C	No direct replacement
XC9536-10VQ44I	No direct replacement	XC9572-10TQG100I	No direct replacement
XC9536-10VQG44C	No direct replacement	XC9572-15PC44C	No direct replacement
XC9536-10VQG44I	No direct replacement	XC9572-15PC44I	No direct replacement
XC9536-15PC44C	No direct replacement	XC9572-15PC84C	No direct replacement
XC9536-15PC44I	No direct replacement	XC9572-15PC84I	No direct replacement
XC9536-15PCG44C	No direct replacement	XC9572-15PCG44C	No direct replacement
XC9536-15PCG44I	No direct replacement	XC9572-15PCG44I	No direct replacement
XC9536-15VQ44C	No direct replacement	XC9572-15PCG84C	No direct replacement
XC9536-15VQ44I	No direct replacement	XC9572-15PCG84I	No direct replacement
XC9536-15VQ44Q	No direct replacement	XC9572-15PQ100C	No direct replacement
XC9536-15VQG44C	No direct replacement	XC9572-15PQ100I	No direct replacement
XC9536-15VQG44I	No direct replacement	XC9572-15PQG100C	No direct replacement
XC9536-5CS48C	No direct replacement	XC9572-15PQG100I	No direct replacement
XC9536-5CSG48C	No direct replacement	XC9572-15TQ100C	No direct replacement
XC9536-5PC44C	No direct replacement	XC9572-15TQ100I	No direct replacement
XC9536-5PCG44C	No direct replacement	XC9572-15TQ100Q	No direct replacement

Table 2 (Continued): XC9500 In-System Programmable CPLD Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XC9572-15TQG100C	No direct replacement	XC9572-7PCG84C	No direct replacement
XC9572-15TQG100I	No direct replacement	XC9572-7PQ100C	No direct replacement
XC9572-7PC44C	No direct replacement	XC9572-7PQG100C	No direct replacement
XC9572-7PC84C	No direct replacement	XC9572-7TQ100C	No direct replacement
XC9572-7PCG44C	No direct replacement	XC9572-7TQG100C	No direct replacement

Table 3: Automotive IQ Spartan-II Family FPGA Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XC2S15-5VQ100Q	No direct replacement	XC2S100-5TQ144Q	No direct replacement
XC2S15-5TQ144Q	No direct replacement	XC2S100-5PQ208Q	No direct replacement
XC2S30-5TQ144Q	No direct replacement	XC2S100-5FG256Q	No direct replacement
XC2S50-5TQ144Q	No direct replacement	XC2S150-5PQ208Q	No direct replacement
XC2S50-5PQ208Q	No direct replacement	XC2S200-5PQ208Q	No direct replacement
XC2S50-5FG256Q	No direct replacement	XC2S200-5FG456Q	No direct replacement

**NOTE:**

1. The last version of software supporting this Automotive IQ Spartan-II FPGA family is ISE<sup>®</sup> 10.1, which can be downloaded on <http://www.xilinx.com/support/download/index.htm>.

Table 4: Automotive IQ CoolRunner XPLA3 CPLD Products Affected

Part Number	Replacement Part	Part Number	Replacement Part
XCR3064XL-10VQ44Q	No direct replacement	XCR3256XL-12TQ144Q	No direct replacement
XCR3128XL-10VQ100Q	No direct replacement	XCR3256XL-12PQ208Q	No direct replacement
XCR3128XL-10TQ144Q	No direct replacement	XCR3384XL-12PQ208Q	No direct replacement

## Appendix A – All SCD Products Affected

*Table 5: Spartan Family FPGA SCD Products Affected*

Part Number	Replacement Part	Part Number	Replacement Part
XCS05XL-4VQ100I0282	No direct replacement	XCS20XL-4VQG100I0913	No direct replacement
XCS05XL-4VQ100I0905	No direct replacement	XCS30XL-4PQ208C0314	No direct replacement
XCS05XL-4VQ100I0913	No direct replacement	XCS30XL-4PQ240C0314	No direct replacement
XCS05XL-4VQG100I0913	No direct replacement	XCS30XL-4PQG208C0314	No direct replacement
XCS10XL-4TQ144C0280	No direct replacement	XCS30XL-4TQ144C0262	No direct replacement
XCS10XL-4TQ144C0708	No direct replacement	XCS30XL-4TQ144C0909	No direct replacement
XCS10XL-4VQ100I0907	No direct replacement	XCS30XL-4TQ144Q0942	No direct replacement
XCS10XL-5TQ144C0100	No direct replacement	XCS30XL-4VQ100C0827	No direct replacement
XCS10XL-5VQ100C0280	No direct replacement	XCS40XL-4BG256I0100	No direct replacement
XCS20XL-4PQ208C0280	No direct replacement	XCS40XL-4PQ208C0280	No direct replacement
XCS20XL-4PQ208I0913	No direct replacement	XCS40XL-4PQ208I0262	No direct replacement
XCS20XL-4PQG208I0913	No direct replacement	XCS40XL-4PQ208I0909	No direct replacement
XCS20XL-4TQ144C0280	No direct replacement	XCS40XL-4PQ208I0913	No direct replacement
XCS20XL-4TQ144I0708	No direct replacement	XCS40XL-4PQ240C0280	No direct replacement
XCS20XL-4VQ100C0100	No direct replacement	XCS40XL-4PQG208I0910	No direct replacement
XCS20XL-4VQ100I0910	No direct replacement	XCS20XL-4VQG100I0913	No direct replacement
XCS20XL-4VQ100I0913	No direct replacement		

*Table 6: XC9500 In-System Programmable CPLD SCD Products Affected*

Part Number	Replacement Part	Part Number	Replacement Part
XC95108-10TQ100C0280	No direct replacement	XC95216-15PQ160C0280	No direct replacement
XC95108-15PQ100C0280	No direct replacement	XC9536-7VQG44C0588	No direct replacement
XC95144-10PQ160C0280	No direct replacement	XC9572-15TQ100I0597	No direct replacement
XC95144-15PQ160C0280	No direct replacement	XC9572-7PQ100C0682	No direct replacement

*Table 7: Automotive IQ Spartan-II Family FPGA SCD Products Affected*

Part Number	Replacement Part	Part Number	Replacement Part
XC2S50-5FG256Q0282	No direct replacement	XC2S50-5FG256Q0905	No direct replacement

*Table 8: Automotive IQ CoolRunner XPLA3 CPLD SCD Products Affected*

Part Number	Replacement Part
XCR3128XL-10VQ100Q0942	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
10/17/2011	1.0	Initial release.
10/26/2011	1.0.1	Minor update to add missing word “before” on the final deliveries key date section.

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