



# Product Discontinuation Notice For Virtex-4 and Virtex-5 FPGA SCDs from Toshiba Wafer Fabrication

XCN11031 (v1.1) June 9, 2015

Product Discontinuation Notice

## Overview

The purpose of this notification is to inform Xilinx customers of the discontinuation of certain Virtex®-4 and Virtex®-5 FPGA devices special part numbers only; devices will continue to ship without change to form, fit, or function, but with updated part numbers.

## Description

Since the introduction of Virtex-4 and Virtex-5 FPGA products, Xilinx has qualified both product families in both Toshiba, in Oita, Japan, and UMC in Taiwan, and has been shipping the majority of devices in each product family from UMC. As part of the consolidation effort described in [XCN11030](#), wafer fabrication for all Virtex-4 and Virtex-5 Devices described in this document will be transferred to UMC.

As a result of this transfer, certain part numbers, including SCD and Stepping, will be converted into standard part numbers.

For these devices, there is no change to the form, fit, or function of the devices themselves. Qualification data is available in the Xilinx reliability report [UG116](#).

## Products Affected

The products affected include all Virtex-4 and Virtex-5 part numbers associated with the following associated SCD and stepping: 0641, 0988, 4009, 4013, 4023, 4058, 4094, 4098, 4108, CS1, CS2 part numbers listed in [Table 1](#), [Table 2](#) and [Table 3](#) below.

Table 1: Virtex-4 & Virtex-5 FPGA Products Family Affected

Part Number Ending In	Replacement SCD available – UMC	Replacement Availability Date - UMC
0641	No – Order Standard part	April 2012 *
0988		
4023		
4108		
4009	Yes – No change to part number for customers choosing to receive UMC	
4013		
4058		
4094		
4098		

\* Xilinx may cross ship from Toshiba or UMC until Toshiba inventory is depleted

Table 2: Virtex-4 & Virtex-5 Family FPGA Products Affected

Part Number - Toshiba	Replacement Part – UMC	Comment
XC4VLX100-10FF1513C0641	XC4VLX100-10FF1513C	Standard Part
XC4VLX100-10FF1148C0988	XC4VLX100-10FF1148C	
XC4VLX100-10FF1148I0988	XC4VLX100-10FF1148I	
XC4VLX100-10FF1513C0988	XC4VLX100-10FF1513C	
XC4VLX100-10FF1513I0988	XC4VLX100-10FF1513I	
XC4VLX100-11FF1148C0988	XC4VLX100-11FF1148C	
XC4VLX100-11FF1148I0988	XC4VLX100-11FF1148I	
XC4VLX100-11FF1513C0988	XC4VLX100-11FF1513C	
XC4VLX100-11FF1513I0988	XC4VLX100-11FF1513I	
XC4VLX100-12FF1148C0988	XC4VLX100-12FF1148C	
XC4VLX100-12FF1513C0988	XC4VLX100-12FF1513C	
XC4VLX15-10FF668C0988	XC4VLX15-10FF668C	
XC4VLX15-10FF676C0988	XC4VLX15-10FF676C	
XC4VLX15-10FF676I0988	XC4VLX15-10FF676I	
XC4VLX15-10SF363C0988	XC4VLX15-10SF363C	
XC4VLX15-11FF676C0988	XC4VLX15-11FF676C	
XC4VLX15-11FF676I0988	XC4VLX15-11FF676I	
XC4VLX15-11SF363C0988	XC4VLX15-11SF363C	
XC4VLX15-11SF363I0988	XC4VLX15-11SF363I	
XC4VLX15-12FF676C0988	XC4VLX15-12FF676C	
XC4VLX15-12SF363C0988	XC4VLX15-12SF363C	
XC4VLX160-10FF1148C0988	XC4VLX160-10FF1148C	
XC4VLX160-10FF1148I0988	XC4VLX160-10FF1148I	
XC4VLX160-10FF1513C0988	XC4VLX160-10FF1513C	
XC4VLX160-10FF1513I0988	XC4VLX160-10FF1513I	
XC4VLX160-11FF1148C0988	XC4VLX160-11FF1148C	
XC4VLX160-11FF1148I0988	XC4VLX160-11FF1148I	
XC4VLX160-11FF1513C0988	XC4VLX160-11FF1513C	
XC4VLX160-11FF1513I0988	XC4VLX160-11FF1513I	
XC4VLX160-12FF1148C0988	XC4VLX160-12FF1148C	
XC4VLX160-12FF1513C0988	XC4VLX160-12FF1513C	
XC4VLX200-10FF1513C0988	XC4VLX200-10FF1513C	
XC4VLX200-10FF1513I0988	XC4VLX200-10FF1513I	
XC4VLX200-11FF1513C0988	XC4VLX200-11FF1513C	
XC4VLX25-10FF668C0988	XC4VLX25-10FF668C	
XC4VLX25-10SF363I0988	XC4VLX25-10SF363I	
XC4VLX25-11FF668I0988	XC4VLX25-11FF668I	
XC4VLX25-11SF363C0988	XC4VLX25-11SF363C	
XC4VLX25-12SF363C0988	XC4VLX25-12SF363C	
XC4VLX40-10FF1148C0988	XC4VLX40-10FF1148C	

Table 2 (Continued): Virtex-4 & Virtex-5 Family FPGA Products Affected

Part Number - Toshiba	Replacement Part – UMC	Comment
XC4VLX40-10FF1148I0988	XC4VLX40-10FF1148I	Standard Part
XC4VLX40-10FFG1148C0988	XC4VLX40-10FFG1148C	
XC4VLX40-11FF1148C0988	XC4VLX40-11FF1148C	
XC4VLX40-11FF1148I0988	XC4VLX40-11FF1148I	
XC4VLX40-11FF668C0988	XC4VLX40-11FF668C	
XC4VLX40-11FF668I0988	XC4VLX40-11FF668I	
XC4VLX40-12FF1148C0988	XC4VLX40-12FF1148C	
XC4VLX60-10FF1148C0988	XC4VLX60-10FF1148C	
XC4VLX60-10FF1148I0988	XC4VLX60-10FF1148I	
XC4VLX60-10FFG1148C0988	XC4VLX60-10FFG1148C	
XC4VLX60-10FFG1148I0988	XC4VLX60-10FFG1148I	
XC4VLX60-11FF1148C0988	XC4VLX60-11FF1148C	
XC4VLX60-11FF1148I0988	XC4VLX60-11FF1148I	
XC4VLX60-11FF668C0988	XC4VLX60-11FF668C	
XC4VLX60-11FF668I0988	XC4VLX60-11FF668I	
XC4VLX60-12FF1148C0988	XC4VLX60-12FF1148C	
XC4VLX60-12FF668C0988	XC4VLX60-12FF668C	
XC4VLX80-10FF1148C0988	XC4VLX80-10FF1148C	
XC4VLX80-10FF1148I0988	XC4VLX80-10FF1148I	
XC4VLX80-11FF1148C0988	XC4VLX80-11FF1148C	
XC4VLX80-11FF1148I0988	XC4VLX80-11FF1148I	
XC4VLX80-12FF1148C0988	XC4VLX80-12FF1148C	
XC4VLX15-10FF668I0988	XC4VLX15-10FF668I	
XC4VLX15-10SF363I0988	XC4VLX15-10SF363I	
XC4VLX15-11FF668C0988	XC4VLX15-11FF668C	
XC4VLX15-11FF668I0988	XC4VLX15-11FF668I	
XC4VLX15-12FF668C0988	XC4VLX15-12FF668C	
XC4VLX25-10FF668I0988	XC4VLX25-10FF668I	
XC4VLX25-10SF363C0988	XC4VLX25-10SF363C	
XC4VLX25-11FF668C0988	XC4VLX25-11FF668C	
XC4VLX25-11SF363I0988	XC4VLX25-11SF363I	
XC4VLX25-12FF668C0988	XC4VLX25-12FF668C	
XC4VLX40-10FF668C0988	XC4VLX40-10FF668C	
XC4VLX40-10FF668I0988	XC4VLX40-10FF668I	
XC4VLX40-11FFG1148C0988	XC4VLX40-11FFG1148C	
XC4VLX40-12FF668C0988	XC4VLX40-12FF668C	
XC4VLX60-10FF668C0988	XC4VLX60-10FF668C	
XC4VLX60-10FF668I0988	XC4VLX60-10FF668I	
XC4VLX60-10FFG668I0988	XC4VLX60-10FFG668I	

Table 2 (Continued): Virtex-4 & Virtex-5 Family FPGA Products Affected

Part Number - Toshiba	Replacement Part – UMC	Comment	
XC4VLX40-10FF1148C4009	XC4VLX40-10FF1148C4009	SCD4009	
XC4VLX40-10FFG1148C4009	XC4VLX40-10FFG1148C4009		
XC4VLX60-10FF1148C4009	XC4VLX60-10FF1148C4009		
XC4VLX60-10FFG1148C4009	XC4VLX60-10FFG1148C4009		
XC4VLX60-10FF1148I4013	XC4VLX60-10FF1148I4013	SCD4013	
XC4VLX100-10FFG1148C4023	XC4VLX100-10FFG1148C	Standard Part	
XC4VLX100-10FFG1148I4023	XC4VLX100-10FFG1148I		
XC4VLX40-10FF1148I4023	XC4VLX40-10FF1148I		
XC4VLX40-10FFG1148I4023	XC4VLX40-10FFG1148I		
XC4VLX60-10FFG1148I4023	XC4VLX60-10FFG1148I		
XC4VLX80-10FFG1148C4023	XC4VLX80-10FFG1148C		
XC4VLX80-10FFG1148I4023	XC4VLX80-10FFG1148I		
XC4VLX25-10FF668C4023	XC4VLX25-10FF668C		
XC4VLX25-10FFG668I4023	XC4VLX25-10FFG668I		
XC4VLX100-10FFG1148C4098	XC4VLX100-10FFG1148C4098		SCD4098
XC4VLX100-10FFG1148I4098	XC4VLX100-10FFG1148I4098		
XC4VLX100-10FFG1513C4098	XC4VLX100-10FFG1513C4098		
XC4VLX100-10FFG1513I4098	XC4VLX100-10FFG1513I4098		
XC4VLX160-10FFG1148C4098	XC4VLX160-10FFG1148C4098		
XC4VLX160-10FFG1148I4098	XC4VLX160-10FFG1148I4098		
XC4VLX160-10FFG1513C4098	XC4VLX160-10FFG1513C4098		
XC4VLX160-10FFG1513I4098	XC4VLX160-10FFG1513I4098		
XC4VLX200-11FFG1513I4098	XC4VLX200-11FFG1513I4098		
XC4VLX25-11FFG668I4098	XC4VLX25-11FFG668I4098		
XC4VLX40-10FFG1148C4098	XC4VLX40-10FFG1148C4098		
XC4VLX40-10FFG1148I4098	XC4VLX40-10FFG1148I4098		
XC4VLX40-11FFG1148I4098	XC4VLX40-11FFG1148I4098		
XC4VLX60-10FFG1148I4098	XC4VLX60-10FFG1148I4098		
XC4VLX80-10FFG1148C4098	XC4VLX80-10FFG1148C4098		
XC4VLX80-10FFG1148I4098	XC4VLX80-10FFG1148I4098		
XC4VLX25-10FFG668C4098	XC4VLX25-10FFG668C4098		
XC4VLX25-10FFG668I4098	XC4VLX25-10FFG668I4098		
XC4VLX60-10FFG668C4098	XC4VLX60-10FFG668C4098		
XC5VSX50T-1FFG1136I4108	XC5VSX50T-1FFG1136I	Standard Part	
XC5VLX50T-2FF1136C4108	XC5VLX50T-2FF1136C		
XC5VLX110T-2FF1136C4108	XC5VLX110T-2FF1136C		
XC5VLX110T-2FF1136I4108	XC5VLX110T-2FF1136I		
XC5VSX95T-2FFG1136C4094	XC5VSX95T-2FFG1136C4094	SCD4094	
XC5VSX95T-DIE4058	XC5VSX95T-DIE4058	SCD4058	

**Table 3: Virtex-4 & Virtex-5 Stepping Family FPGA Products Affected**

<b>Part Number - Toshiba</b>	<b>Replacement Part – UMC</b>	<b>Comment</b>
XC4VLX15-10FF668CS2	XC4VLX15-10FF668C	Standard Part
XC4VLX15-10FF668IS2	XC4VLX15-10FF668I	
XC4VLX15-10FF676CS2	XC4VLX15-10FF676C	
XC4VLX15-10FF676IS2	XC4VLX15-10FF676I	
XC4VLX15-10FFG668CS2	XC4VLX15-10FFG668C	
XC4VLX15-10FFG668IS2	XC4VLX15-10FFG668I	
XC4VLX15-10FFG676CS2	XC4VLX15-10FFG676C	
XC4VLX15-10FFG676IS2	XC4VLX15-10FFG676I	
XC4VLX15-10SF363CS2	XC4VLX15-10SF363C	
XC4VLX15-10SF363IS2	XC4VLX15-10SF363I	
XC4VLX15-10SFG363CS2	XC4VLX15-10SFG363C	
XC4VLX15-10SFG363IS2	XC4VLX15-10SFG363I	
XC4VLX15-11FF668CS2	XC4VLX15-11FF668C	
XC4VLX15-11FF668IS2	XC4VLX15-11FF668I	
XC4VLX15-11FF676CS2	XC4VLX15-11FF676C	
XC4VLX15-11FF676IS2	XC4VLX15-11FF676I	
XC4VLX15-11FFG668CS2	XC4VLX15-11FFG668C	
XC4VLX15-11FFG668IS2	XC4VLX15-11FFG668I	
XC4VLX15-11FFG676CS2	XC4VLX15-11FFG676C	
XC4VLX15-11FFG676IS2	XC4VLX15-11FFG676I	
XC4VLX15-11SF363CS2	XC4VLX15-11SF363C	
XC4VLX15-11SF363IS2	XC4VLX15-11SF363I	
XC4VLX15-11SFG363CS2	XC4VLX15-11SFG363C	
XC4VLX15-11SFG363IS2	XC4VLX15-11SFG363I	
XC4VLX15-12FF668CS2	XC4VLX15-12FF668C	
XC4VLX15-12FF676CS2	XC4VLX15-12FF676C	
XC4VLX15-12FFG668CS2	XC4VLX15-12FFG668C	
XC4VLX15-12FFG676CS2	XC4VLX15-12FFG676C	
XC4VLX15-12SF363CS2	XC4VLX15-12SF363C	
XC4VLX15-12SFG363CS2	XC4VLX15-12SFG363C	
XC4VLX25-10FF668CS2	XC4VLX25-10FF668C	
XC4VLX25-10FF668IS2	XC4VLX25-10FF668I	
XC4VLX25-10FFG668CS2	XC4VLX25-10FFG668C	
XC4VLX25-10FFG668IS2	XC4VLX25-10FFG668I	
XC4VLX25-10SF363CS2	XC4VLX25-10SF363C	
XC4VLX25-10SF363IS2	XC4VLX25-10SF363I	
XC4VLX25-10SFG363CS2	XC4VLX25-10SFG363C	
XC4VLX25-10SFG363IS2	XC4VLX25-10SFG363I	
XC4VLX25-11FF668CS2	XC4VLX25-11FF668C	

Table 3 (Continued): Virtex-4 & Virtex-5 Stepping Family FPGA Products Affected

Part Number - Toshiba	Replacement Part – UMC	Comment
XC4VLX25-11FF668IS2	XC4VLX25-11FF668I	Standard Part
XC4VLX25-11FFG668CS2	XC4VLX25-11FFG668C	
XC4VLX25-11FFG668IS2	XC4VLX25-11FFG668I	
XC4VLX25-11SF363CS2	XC4VLX25-11SF363C	
XC4VLX25-11SF363IS2	XC4VLX25-11SF363I	
XC4VLX25-11SFG363CS2	XC4VLX25-11SFG363C	
XC4VLX25-11SFG363IS2	XC4VLX25-11SFG363I	
XC4VLX25-12FF668CS2	XC4VLX25-12FF668C	
XC4VLX25-12FFG668CS2	XC4VLX25-12FFG668C	
XC4VLX25-12SF363CS2	XC4VLX25-12SF363C	
XC4VLX25-12SFG363CS2	XC4VLX25-12SFG363C	
XC4VLX40-10FF1148CS2	XC4VLX40-10FF1148C	
XC4VLX40-10FF1148IS2	XC4VLX40-10FF1148I	
XC4VLX40-10FF668CS2	XC4VLX40-10FF668C	
XC4VLX40-10FF668IS2	XC4VLX40-10FF668I	
XC4VLX40-10FFG1148CS2	XC4VLX40-10FFG1148C	
XC4VLX40-10FFG1148IS2	XC4VLX40-10FFG1148I	
XC4VLX40-10FFG668CS2	XC4VLX40-10FFG668C	
XC4VLX40-10FFG668IS2	XC4VLX40-10FFG668I	
XC4VLX40-11FF1148CS2	XC4VLX40-11FF1148C	
XC4VLX40-11FF1148IS2	XC4VLX40-11FF1148I	
XC4VLX40-11FF668CS2	XC4VLX40-11FF668C	
XC4VLX40-11FF668IS2	XC4VLX40-11FF668I	
XC4VLX40-11FFG1148CS2	XC4VLX40-11FFG1148C	
XC4VLX40-11FFG1148IS2	XC4VLX40-11FFG1148I	
XC4VLX40-11FFG668CS2	XC4VLX40-11FFG668C	
XC4VLX40-11FFG668IS2	XC4VLX40-11FFG668I	
XC4VLX40-12FF1148CS2	XC4VLX40-12FF1148C	
XC4VLX40-12FF668CS2	XC4VLX40-12FF668C	
XC4VLX40-12FFG1148CS2	XC4VLX40-12FFG1148C	
XC4VLX40-12FFG668CS2	XC4VLX40-12FFG668C	
XC4VLX80-10FF1148CS2	XC4VLX80-10FF1148C	
XC4VLX80-10FF1148IS2	XC4VLX80-10FF1148I	
XC4VLX80-10FFG1148CS2	XC4VLX80-10FFG1148C	
XC4VLX80-10FFG1148IS2	XC4VLX80-10FFG1148I	
XC4VLX80-11FF1148CS2	XC4VLX80-11FF1148C	
XC4VLX80-11FF1148IS2	XC4VLX80-11FF1148I	
XC4VLX80-11FFG1148CS2	XC4VLX80-11FFG1148C	
XC4VLX80-11FFG1148IS2	XC4VLX80-11FFG1148I	
XC4VLX80-12FF1148CS2	XC4VLX80-12FF1148C	

Table 3 (Continued): Virtex-4 & Virtex-5 Stepping Family FPGA Products Affected

Part Number - Toshiba	Replacement Part – UMC	Comment
XC4VLX80-12FFG1148CS2	XC4VLX80-12FFG1148C	
XC5VLX20T-1FF323CS1	XC5VLX20T-1FF323C	
XC5VLX20T-1FF323IS1	XC5VLX20T-1FF323I	
XC5VLX20T-1FFG323CS1	XC5VLX20T-1FFG323C	
XC5VLX20T-1FFG323IS1	XC5VLX20T-1FFG323I	
XC5VLX20T-2FF323CS1	XC5VLX20T-2FF323C	
XC5VLX20T-2FF323IS1	XC5VLX20T-2FF323I	
XC5VLX20T-2FFG323CS1	XC5VLX20T-2FFG323C	
XC5VLX20T-2FFG323IS1	XC5VLX20T-2FFG323I	
XC5VSX35T-1FF665CS1	XC5VSX35T-1FF665C	
XC5VSX35T-1FF665IS1	XC5VSX35T-1FF665I	
XC5VSX35T-1FFG665CS1	XC5VSX35T-1FFG665C	
XC5VSX35T-1FFG665IS1	XC5VSX35T-1FFG665I	
XC5VSX35T-2FF665CS1	XC5VSX35T-2FF665C	
XC5VSX35T-2FF665IS1	XC5VSX35T-2FF665I	
XC5VSX35T-2FFG665CS1	XC5VSX35T-2FFG665C	
XC5VSX35T-2FFG665IS1	XC5VSX35T-2FFG665I	
XC5VSX35T-3FF665CS1	XC5VSX35T-3FF665C	
XC5VSX35T-3FFG665CS1	XC5VSX35T-3FFG665C	
XC5VSX50T-1FF1136CS1	XC5VSX50T-1FF1136C	
XC5VSX50T-1FF1136IS1	XC5VSX50T-1FF1136I	
XC5VSX50T-1FF665CS1	XC5VSX50T-1FF665C	
XC5VSX50T-1FF665IS1	XC5VSX50T-1FF665I	
XC5VSX50T-1FFG1136CS1	XC5VSX50T-1FFG1136C	
XC5VSX50T-1FFG1136IS1	XC5VSX50T-1FFG1136I	
XC5VSX50T-1FFG665CS1	XC5VSX50T-1FFG665C	
XC5VSX50T-1FFG665IS1	XC5VSX50T-1FFG665I	
XC5VSX50T-2FF1136CS1	XC5VSX50T-2FF1136C	
XC5VSX50T-2FF1136IS1	XC5VSX50T-2FF1136I	
XC5VSX50T-2FF665CS1	XC5VSX50T-2FF665C	
XC5VSX50T-2FF665IS1	XC5VSX50T-2FF665I	
XC5VSX50T-2FFG1136CS1	XC5VSX50T-2FFG1136C	
XC5VSX50T-2FFG1136IS1	XC5VSX50T-2FFG1136I	
XC5VSX50T-2FFG665CS1	XC5VSX50T-2FFG665C	
XC5VSX50T-2FFG665IS1	XC5VSX50T-2FFG665I	
XC5VSX50T-3FF1136CS1	XC5VSX50T-3FF1136C	
XC5VSX50T-3FF665CS1	XC5VSX50T-3FF665C	
XC5VSX50T-3FFG1136CS1	XC5VSX50T-3FFG1136C	
XC5VSX50T-3FFG665CS1	XC5VSX50T-3FFG665C	

Standard Part

Table 3 (Continued): Virtex-4 & Virtex-5 Stepping Family FPGA Products Affected

Part Number - Toshiba	Replacement Part – UMC	Comment
XC5VSX95T-1FF1136CS1	XC5VSX95T-1FF1136C	Standard Part
XC5VSX95T-1FF1136IS1	XC5VSX95T-1FF1136I	
XC5VSX95T-1FFG1136CS1	XC5VSX95T-1FFG1136C	
XC5VSX95T-1FFG1136IS1	XC5VSX95T-1FFG1136I	
XC5VSX95T-2FF1136CS1	XC5VSX95T-2FF1136C	
XC5VSX95T-2FF1136IS1	XC5VSX95T-2FF1136I	
XC5VSX95T-2FFG1136CS1	XC5VSX95T-2FFG1136C	
XC5VSX95T-2FFG1136IS1	XC5VSX95T-2FFG1136I	

## Key Dates and Ordering Information

Final orders are accepted until Friday, February 17, 2012.

Final deliveries are expected to occur on or before Friday, August 17, 2012.

Last time buy orders are NCNR.

## 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 Support website (<http://www.xilinx.com/support>). Register today and personalize your “Documentation and Design Advisory Alerts” area to include Customer Notifications. Xilinx Support 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
12/05/11	1.0	Initial release.
06/09/15	1.1	Revise to include three missing SCD4108 part numbers on <a href="#">Table 2</a> (page 4). (“SCD4108” was mentioned on the products affected section from the previous v1.0 released).

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