

Overview

The purpose of this notification is to communicate that Xilinx is discontinuing the -4 speed grade of Spartan[®]-6 LXT family devices and moving existing customers to the new, upgraded -3 speed grade devices. This product discontinuation notice (PDN) applies to Commercial (C) temperature grade products in the Spartan-6 LXT family; it does not apply to any devices in the Spartan-6 LX family as no -4 speed grade devices are available in the Spartan-6 LX family.

Description

Xilinx is upgrading the speed files for all Spartan-6 -3 speed grade devices. The new -3 speed files are as good as the current speed files for -4 speed grade devices. This allows Xilinx to offer a lower cost option to our speed critical customer base by optimizing Xilinx manufacturing flows.

This speed file upgrade is backward compatible and can be used with any production shipped Spartan-6 -3 speed grade material.

To allow customers to take advantage of this lower cost option, Xilinx is asking current LXT -4 speed grade customers to move to equivalent -3 speed grade devices. The new -3 speed files are available in ISE[®] software revision 12.4 (or later), which can be downloaded at <http://www.xilinx.com/download>.

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 -4 speed Spartan-6 LXT family. For a list of affected devices please use the link below or see Table 1.

- [Spartan-6 Family FPGA Products Affected](#)

Key Dates and Ordering Information

Final orders are accepted until April 11, 2011.

Final deliveries must occur on or before July 11, 2011.

Return Material Authorizations (RMAs) for replacement devices will be accepted until October 10, 2011.

Recommendations

Although there are minor differences between the -4 and -3 speed files, designs that meet timing in -4 are expected to meet timing in the new -3 speed file. Customers currently purchasing -4 speed grade devices should rerun timing analysis using the new -3 speed files before moving to the direct replacement part as noted in Table 1. Customers in design with -4 speed devices should move their design effort to -3 devices using ISE software revision 12.4 or later. For further details please refer to [Xilinx Answer record 39946](#).

Table 1: Spartan-6 Family FPGA Products Affected

Part Number	Direct Replacement Part	Part Number	Direct Replacement Part
XC6SLX100T-4CSG484C	XC6SLX100T-3CSG484C	XC6SLX150T-4FGG900C	XC6SLX150T-3FGG900C
XC6SLX100T-4FG484C	XC6SLX100T-3FG484C	XC6SLX25T-4CSG324C	XC6SLX25T-3CSG324C
XC6SLX100T-4FG676C	XC6SLX100T-3FG676C	XC6SLX25T-4FG484C	XC6SLX25T-3FG484C
XC6SLX100T-4FG900C	XC6SLX100T-3FG900C	XC6SLX25T-4FGG484C	XC6SLX25T-3FGG484C
XC6SLX100T-4FGG484C	XC6SLX100T-3FGG484C	XC6SLX45T-4CSG324C	XC6SLX45T-3CSG324C
XC6SLX100T-4FGG676C	XC6SLX100T-3FGG676C	XC6SLX45T-4CSG484C	XC6SLX45T-3CSG484C
XC6SLX100T-4FGG676C0866	XC6SLX100T-3FGG676C	XC6SLX45T-4FG484C	XC6SLX45T-3FG484C
XC6SLX100T-4FGG900C	XC6SLX100T-3FGG900C	XC6SLX45T-4FGG484C	XC6SLX45T-3FGG484C
XC6SLX150T-4CSG484C	XC6SLX150T-3CSG484C	XC6SLX75T-4CSG484C	XC6SLX75T-3CSG484C
XC6SLX150T-4FG484C	XC6SLX150T-3FG484C	XC6SLX75T-4FG484C	XC6SLX75T-3FG484C
XC6SLX150T-4FG676C	XC6SLX150T-3FG676C	XC6SLX75T-4FG676C	XC6SLX75T-3FG676C
XC6SLX150T-4FG900C	XC6SLX150T-3FG900C	XC6SLX75T-4FGG484C	XC6SLX75T-3FGG484C
XC6SLX150T-4FGG484C	XC6SLX150T-3FGG484C	XC6SLX75T-4FGG676C	XC6SLX75T-3FGG676C
XC6SLX150T-4FGG676C	XC6SLX150T-3FGG676C	XC6SLX75T-4FGG676C0866	XC6SLX75T-3FGG676C
XC6SLX150T-4FGG676C0866	XC6SLX150T-3FGG676C		

NOTE:

1. For the improved -3 performance, please use ISE software revision 12.4 or later, which can be downloaded at <http://www.xilinx.com/download>.

Response

Customers are requested to place last-time-buy orders in a timely manner prior to the key dates listed in the Key Dates and Ordering Information section 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](#).

Additional Documentation

Xilinx Answer Record 39946:
<http://www.xilinx.com/support/answers/39946.htm>.

Revision History

The following table shows the revision history for this document.

Date	Version	Revision
01/10/2011	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.