Additional Substrate Supplier for Virtex-6 and 7 Series FPGAs Flip Chip Packages

XCN14012 (v2.0) March 30, 2015 **Product Change Notice**

Overview

The purpose of this notification is to communicate that Xilinx is adding an additional qualified substrate supplier for all Virtex®-6 and selected 7 series FPGAs flip chip packages. In addition, Xilinx is aligning the substrate core material to an industry standard (E700FGR) for Virtex-6 FPGAs products.

Description

The addition of this supplier is to ensure continuity of supply for Xilinx flip chip packages. 7 series FPGAs flip chip packages from the additional substrate supplier will have the identical material set, design and dimensions as the current 7 series FPGAs production substrates. For Virtex-6 FPGAs, Xilinx is aligning the substrate core to industry standard material E700FGR. E700FGR is already in production for 7 series FPGAs flip chip substrates. All other material, design, and dimensions for the Virtex-6 FPGAs with the added substrates are identical to the current production substrates. This added supplier is a qualified substrate supplier and is in production for Xilinx wire bond products. There is no change to the form, fit, or function.

Products Affected

For Artix®-7, Zynq®-7000 All Programmable, Virtex®-7 and Kintex®-7 in the SB, FB, FF, SBG, FBG and FFG packages, this change affects all standard and specification control document (SCD) XC Commercial (C) grade, Extended (E) grade and Industrial (I) grade devices. Virtex-7 in the FL, FLG, FH and FHG packages, and Automotive "XA" devices for 7 series FPGAs are not affected by this PCN.

For Virtex-6 FPGAs, this change affects all standard and specification control document (SCD) "XC" Commercial (C) and Industrial (I) grade devices. Hi-Rel "XQ" devices in the FFG1156 package are not affected by this PCN.

Affected device package-pin are listed in the Table 1, Table 2, Table 3, Table 4 and Table 5 below:

Table 1: **Virtex-6 FPGAs Devices Package Product Affected**

Device	Package-Pin
XC6VCX130T	FF(G)784 (1)
	FF(G)1156 (1)
XC6VCX195T	FF(G)784 (1)
	FF(G)1156 (1)
XC6VCX240T	FF(G)784 (1)
	FF(G)1156 (1)
XC6VCX75T	FF(G)784 (1)
XC6VHX250T	FF(G)1154 (1)
XC6VHX255T	FF(G)1155 (1)
	FF(G)1923 (1)
XC6VHX380T	FF(G)1154 (1)
	FF(G)1155 (1)
	FF(G)1923 (1)
	FF(G)1924 (1)
XC6VHX565T	FF(G)1923 (1)
	FF(G)1924 (1)
XC6VLX130T	FF(G)784 (1)
	FF(G)1156 (1)
XC6VLX195T	FF(G)784 (1)
	FF(G)1156 (1)
XC6VLX240T	FF(G)784 (1)
	FF(G)1156 (1)
	FF(G)1759 (1)
XC6VLX365T	FF(G)1156 (1)
	FF(G)1759 (1)
XC6VLX550T	FF(G)1759 (1)
	FF(G)1760 (1)
XC6VLX75T	FF(G)784 (1)
XC6VLX760	FF(G)1760 (1)
XC6VSX315T	FF(G)1156 (1)
	FF(G)1759 (1)
XC6VSX475T	FF(G)1156 (1)
	FF(G)1759 (1)

Table 2: **Artix-7 FPGAs Devices Package Product Affected**

Device	Package-Pin
XC7A200T	FF(G)1156 (2)
	FB(G)484 (3)
	FB(G)676 (3)
	SB(G)484 (3)

Table 3: **Kintex-7 FPGAs Devices Package Product Affected**

Device	Package-Pin
XC7K70T	FB(G)484 (3)
	FB(G)676 (3)
XC7K160T	FF(G)676 (2)
	FB(G)484 (3)
	FB(G)676 (3)

Device	Package-Pin
XC7K325T	FF(G)676 (1)
	FF(G)900 (1)
	FB(G)676 (3)
	FB(G)900 (3)
XC7K355T	FF(G)901 (2)

Device	Package-Pin
XC7K410T	FF(G)676 (2)
	FF(G)900 (2)
	FB(G)676 (3)
	FB(G)900 (3)
XC7K420T	FF(G)901 (2)
	FF(G)1156 (2)
XC7K480T	FF(G)901 (2)
	FF(G)1156 (2)

Table 4: **Virtex-7 FPGAs Devices Package Product Affected**

Device	Package-Pin
XC7V585T	FF(G)1157 (2)
	FF(G)1761 (2)
XC7VX330T	FF(G)1157 (2)
	FF(G)1761 (2)
XC7VX415T	FF(G)1157 (2)
	FF(G)1158 (2)
	FF(G)1927 (2)

Device	Package-Pin
XC7VX485T	FF(G)1157 (2)
	FF(G)1158 (2)
	FF(G)1761 (2)
	FF(G)1927 (2)
	FF(G)1930 (2)
XC7VX550T	FF(G)1158 (2)
	FF(G)1927 (2)

Device	Package-Pin
XC7VX690T	FF(G)1157 (2)
	FF(G)1158 (2)
	FF(G)1761 (2)
	FF(G)1926 (2)
	FF(G)1927 (2)
	FF(G)1930 (2)
XC7VX980T	FF(G)1926 (2)
	FF(G)1928 (2)
	FF(G)1930 (2)

Table 5: **Zynq-7000 FPGAs Devices Package Product Affected**

Device	Package-Pin
XC7Z030	FB(G)484 (3)
	FB(G)676 (3)
	FF(G)676 (3)
	SB(G)485 (3)
XC7Z035	FB(G)676 (3)
	FF(G)676 (3)
	FF(G)900 (3)

Device	Package-Pin
XC7Z045	FB(G)676 (3)
	FF(G)676 (3)
	FF(G)900 (3)

Device	Package-Pin
XC7Z100	FFG1156 (3)
	FFG900 (3)

Notes:

(1) Please refer to Table 6 Phase 1 cross-ship schedule
(2) Please refer to Table 7 Phase 2 cross-ship schedule
(3) Please refer to Table 8 Phase 3 cross-ship schedule

Key Dates and Ordering Information

Xilinx may begin cross-ship product using new supplier substrate as early as Q1, CY2015; please reference XTP385 for specific schedules.

Table 6: **Phase 1 - Virtex-6 and Kintex-7 Devices Qualification Completion and Cross-Ship Schedule**

Device	Qualification Report Available	Cross-Ship Date
XC6VCX130T	November 3rd, 2014	Q1CY15
XC6VCX195T	November 3rd, 2014	Q1CY15
XC6VCX240T	November 3rd, 2014	Q1CY15
XC6VCX75T	November 3rd, 2014	Q1CY15
XC6VHX250T	November 3rd, 2014	Q1CY15
XC6VHX255T	November 3rd, 2014	Q1CY15
XC6VHX380T	November 3rd, 2014	Q1CY15
XC6VHX565T	November 3rd, 2014	Q1CY15
XC6VLX130T	November 3rd, 2014	Q1CY15
XC6VLX195T	November 3rd, 2014	Q1CY15
XC6VLX240T	November 3rd, 2014	Q1CY15
XC6VLX365T	November 3rd, 2014	Q1CY15
XC6VLX550T	November 3rd, 2014	Q1CY15
XC6VLX75T	November 3rd, 2014	Q1CY15
XC6VLX760	November 3rd, 2014	Q1CY15
XC6VSX315T	November 3rd, 2014	Q1CY15
XC6VSX475T	November 3rd, 2014	Q1CY15
XC7K325T	November 3rd, 2014	Q1CY15

Table 7: **Phase 2 - Artix-7, Kintex-7 and Virtex-7 Devices Qualification Completion and Cross-Ship Schedule**

Device	Qualification Report Available	Cross-Ship Date
XC7A200T	November 3rd, 2014	Q2CY15
XC7K160T	November 3rd, 2014	Q2CY15
XC7K355T	November 3rd, 2014	Q2CY15
XC7K410T	November 3rd, 2014	Q2CY15
XC7K420T	November 3rd, 2014	Q2CY15
XC7K480T	November 3rd, 2014	Q2CY15
XC7V585T	November 3rd, 2014	Q2CY15
XC7VX330T	November 3rd, 2014	Q2CY15
XC7VX415T	November 3rd, 2014	Q2CY15
XC7VX485T	November 3rd, 2014	Q2CY15
XC7VX550T	November 3rd, 2014	Q2CY15
XC7VX690T	November 3rd, 2014	Q2CY15
XC7VX980T	November 3rd, 2014	Q2CY15

Table 8: **Phase 3 - Artix-7, Zynq-7000 All Programmable and Kintex-7 Cross-Ship Schedule**

Device	Qualification Report Available	Cross-Ship Date
XC7A200T-FBG484	November 3rd, 2014	Q1CY16
XC7A200T-FBG676	November 3rd, 2014	Q1CY16
XC7A200T-SBG484	November 3rd, 2014	Q1CY16
XC7K160T-FBG484	November 3rd, 2014	Q1CY16
XC7K160T-FBG676	November 3rd, 2014	Q1CY16
XC7K325T-FBG676	November 3rd, 2014	Q1CY16
XC7K325T-FBG900	November 3rd, 2014	Q1CY16
XC7K410T-FBG676	November 3rd, 2014	Q1CY16
XC7K410T-FBG900	November 3rd, 2014	Q1CY16
XC7K70T-FBG484	November 3rd, 2014	Q1CY16
XC7K70T-FBG676	November 3rd, 2014	Q1CY16
XC7Z030-FBG484	November 3rd, 2014	Q1CY16
XC7Z030-FBG676	November 3rd, 2014	Q1CY16
XC7Z030-FFG676	November 3rd, 2014	Q1CY16
XC7Z030-SBG485	November 3rd, 2014	Q1CY16
XC7Z035-FBG676	November 3rd, 2014	Q1CY16
XC7Z035-FFG676	November 3rd, 2014	Q1CY16
XC7Z035-FFG900	November 3rd, 2014	Q1CY16
XC7Z045-FBG676	November 3rd, 2014	Q1CY16
XC7Z045-FFG676	November 3rd, 2014	Q1CY16
XC7Z045-FFG900	November 3rd, 2014	Q1CY16
XC7Z100-FFG1156	November 3rd, 2014	Q1CY16
XC7Z100-FFG900	November 3rd, 2014	Q1CY16

Qualification Data

Xilinx has successfully passed and completed the qualification. Please refer to Xilinx RPT204 for more details.

Response

No response is required. For additional information or questions, please contact Xilinx Technical Support.

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Additional Documentation

Qualification Report (RPT204):
https://secure.xilinx.com/webreg/clickthrough.do?cid=370836
FAQ (XTP385): Transition Schedule for Substrate Supplier for Virtex-6 and 7 Series FPGAs Flip Chip Packages
https://secure.xilinx.com/webreg/clickthrough.do?cid=371043

Revision History

The following table shows the revision history for this document:

Date	Version	Description of Revisions
11/03/2014	1.0	Initial released.
11/10/2014	1.1	Minor update on Table 1 to remove FF(G)1759 package from XC6VCX240T device. Edit the statement under the Key Dates and Ordering Information.
03/30/2015	2.0	Added Zynq-7000 family, Artix-7 SB(G) and FB(G) package and Kintex-7 FB(G) package for Phase 3 release.

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