Kintex-7 FPGA Embedded Kit FAQ Overview

This document contains the most frequently asked questions (FAQ) asked before buying the Kintex-7 FPGA Embedded Kit. This should be used in conjunction with the website and technical documentation for the embedded kit.

Product Summary

The Kintex™-7 FPGA Embedded Kit is one of several domain kits which leverage the Kintex-7 KC705 base board along with one or more targeted reference designs (TRDs) – making it a highly targeted solution for the specific domain. This embedded kit includes the following two TRDs:

1) BIST System

2) Video Demonstration System

The Video Demo is the superset of the BIST system and both are built around the MicroBlaze™ soft processor with various peripherals to enable embedded applications. In addition to these TRDs, a stand-alone software application and web server based application are provided.

Supporting Information

For additional information, refer to the Kintex-7 FPGA Embedded Kit website at
http://www.xilinx.com/k7embkit

Q & A

Ordering & Availability:

Q1: What is the list price for the Kintex-7 FPGA Embedded Kit?
A1: $1,895

Q2: What are the ordering codes for the Kintex-7FPGA Embedded Kit?
A2: The following part numbers are for the standard ES kit and the Japan variant:
- ES → DK-K7-EMBD-CES-G
- ES Japan → DK-K7-EMBD-CES-G-J

Q3: When can I place my order for the Kintex-7 FPGA Embedded Kit?
A3: Kits are open for order entry today and can be purchased through the Xilinx online store or a distributor.

Q4: What is the lead time on this kit?
A4: Estimated lead times can be found on the kit webpage but should be verified with your local sales rep.

Kit Specifications:

Q1: What base board and FPGA are used in the Kintex-7 FPGA Embedded Kit?
A1: The Kintex-7 FPGA Embedded Kit includes the Kintex-7 KC705 base board which features the Kintex-7 325T FF900 -2 CES FPGA.

Q2: What are the contents of the Kintex-7 FPGA Embedded Kit?
A2: The kit will contain the following:
- Hardware:
    - o Kintex-7 KC705 evaluation board
    - o AMS evaluation card
    - o Cables & Power Supply
    - o USB Flash Drive (filled with soft content)
- Software and IP
    - o Full seat ISE® Design Suite Embedded Edition (device locked to the Kintex-7 325T)
    - o Embedded Targeted Reference Design
    - o PCIe + DDR3 Targeted Reference Design
    - o Example Designs and Demos (AMS, MIG, etc)
    - o Board Design Files
- Documentation
    - o Getting Started Guide
    - o Embedded Reference Design Datasheet
    - o Hardware & Software Tutorials

Q3: How are the kit contents different than the Kintex-7 KC705 Evaluation Kit?
A3: All the hardware in the kit is the same. The major differences include the software license voucher, the documentation, and the targeted embedded reference design; all of which enable embedded designers to perform rapid embedded development.

Q4: Where can I find additional technical details on the Kintex-7 FPGA Embedded Kit?
A4: Refer to the product brief and other documentation on the Kintex-7 Embedded Kit website at www.xilinx.com/k7embkit.

Software & IP Questions:

Q1: What versions of software will be required to design with the reference designs included in the Kintex-7FPGA Embedded Kit?
A1: All the soft content shipped with the first version of the kit will be targeted to ISEv13.4. Future kits, during their active maintenance period, will include IP targeted to the most recent software version.

Q2: What does the video demonstration embedded TRD do?
A2: The embedded TRD is a complete MicroBlaze soft processor-based design that enables Ethernet networking and video processing. The key peripherals included in this design are:
- MicroBlaze soft processor
- Gigabit Ethernet IP
- DDR3 Memory Controller
- AXI4 Interconnect IP
- Display Controller using Xylon LogiCVC IP
- Video Processing using AXI_VDMA
- UART, I2C, Timer and SD card interfaces

Return & Warranty Questions:

Q1: What is the Xilinx return policy for boards and software?
A1: To return a board or cable purchased through normal distribution channels, contact the authorized distributor who originally sold you the product. For more information please visit the following site:
http://www.xilinx.com/products/quality/rma.htm

Q2: What is the warranty period for Xilinx development boards?
A2: The warranty period is 90 days. For more information please visit the following site:
http://www.xilinx.com/warranty.htm#boards

Additional Questions

For additional information regarding this product, please contact designkits@xilinx.com.

Revision History

Date	Version	Revision
5/15/12	1.0	Initial Xilinx release.