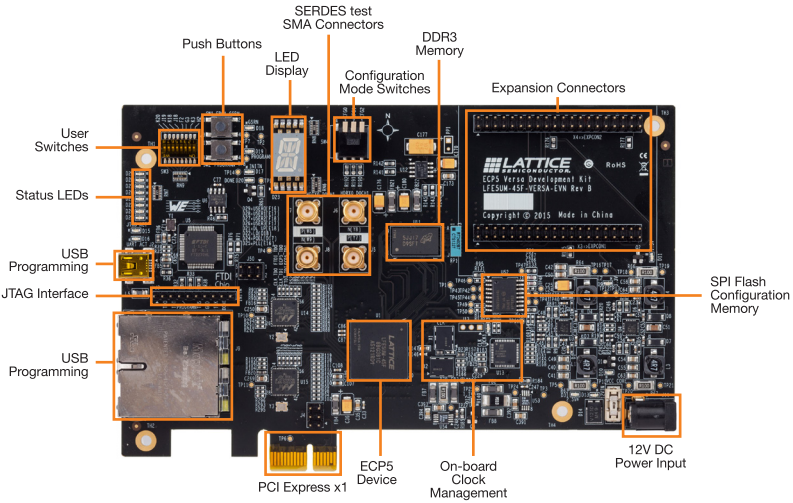
QuickSTART

ECP5 Versa Development Kit

This document provides a brief introduction on how to install and run the demos based on the ECP5 Versa Development Kit. Please refer to the ECP5 Versa Development Kit web page at www.latticesemi.com/ecp5versa for further details on the demo designs, reference designs and other collateral included with the kit.



1 Check Kit Contents

The ECP5 Versa Development Kit contains the following items:

- ECP5 Versa Evaluation Board
- 12V AC/DC Adapter & International Plug Adapters
- USB Cable for Programming via PC (USB-A to Mini-B)
- Quick Start Guide

2 Using the ECP5 Versa Development Kit

The ECP5 Versa Board as shipped supports Master-SPI based configuration. The Master SPI is pre-loaded with a demonstration program described below.

ECP5 Versa Development Kit

3 Installing the software

If you do not have Lattice Diamond design software (version 3.5.1 or later) installed on your PC, visit www.latticesemi.com/software for instructions on how to download the software. If you don't have a Diamond Subscription license (which includes full support for the ECP5 FPGA family), you can request a special ECP5 Versa license by following the instructions on the letter included in this kit. If you only need to program a bitstream file to the FPGA, you can install the Diamond Programmer Stand-alone, v3.5.1 or later.

4 Powering the Board & Observing the Demo Program

First, connect the supplied power adapter to the 12VDC power input (J11) on the board. A few LEDs should light, indicating the board is powered. The ECP5 will begin configuration from the external SPI memory (provided SW4 is in default state of 010). Configuration will complete in about 1 second, at which time the Status LEDs and LED Display will be illuminated in a repeating pattern.

5 Programming the ECP5 Versa Board with Additional Demos

To update the ECP5 Versa Board with additional demos, connect the included USB-mini cable to your PC with the Diamond software installed. The ECP5 FPGA can be programmed to perform any number of functions. Visit the ECP5 web page at www.latticesemi.com/ecp5versa, and look for the "Documentation/Downloads/Design File" resource links near the bottom of the page. There you'll see a number of demonstration bitstreams for the ECP5 Versa. Each demo for the ECP5 Versa includes a User Guide with instructions on working with and observing the demo.

Technical Support Assistance

Submit a technical support case through www.latticesemi.com/techsupport.

QS038 Rev. 0
August 2015