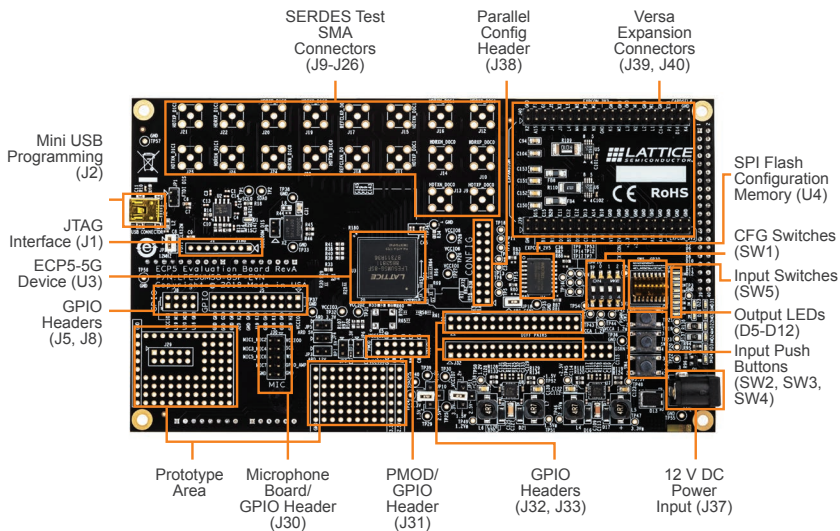


This document provides a brief introduction to ECP5 Evaluation Board.



1

Check Kit Contents

The ECP5 Evaluation Board kit contains the following items

- ECP5 Evaluation Board
- 12V AC/DC Adapter & International Plug Adapters
- USB Cable for Programming via PC (USB-A to Mini-B)
- Limited license with unique serial number for Lattice Diamond development software (optional to use).
- Quick Start Guide

2

Using the ECP5 Evaluation Board

The ECP5 Evaluation Board as shipped supports Master-SPI based configuration. The external SPI Flash Configuration Memory is pre-loaded with a demonstration program described below.

3 Installing the software

The ECP5 Evaluation Board is pre-programmed with a basic demonstration.

To develop your own solutions, download and use the Lattice Diamond design software (version 3.6 or later), downloadable from www.latticesemi.com/software.

In case you need it, this board includes a limited license for Lattice Diamond allowing access to design with the ECP5-85 FPGA on the board. A unique license number and instructions are included in this kit.

If you only need to re-program the board, you can use the Diamond Programmer stand-alone software (version 3.6 or later).

4 Powering the Board & Observing the Demo Program

Connect the supplied power adapter to the 12V DC power input (J37) on the board. A few LEDs should light, indicating the board is powered. Configuration of the ECP5-5G (U3) from the external memory (U4) will complete in a few seconds provided SW1 is in the default state of 010. After configuration, the Output LEDs (D5-D12) will be illuminated in a repeating pattern, provided SW5 is in the default state of 0000 1001.

5 Doing More with the ECP5 Evaluation Board

Check the Lattice website at www.latticesemi.com/ecp5-evaluation to download the full User's Guide, the full source code of the default demo, and other resources. You can use the Lattice Diamond software to develop and program your own demos.

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