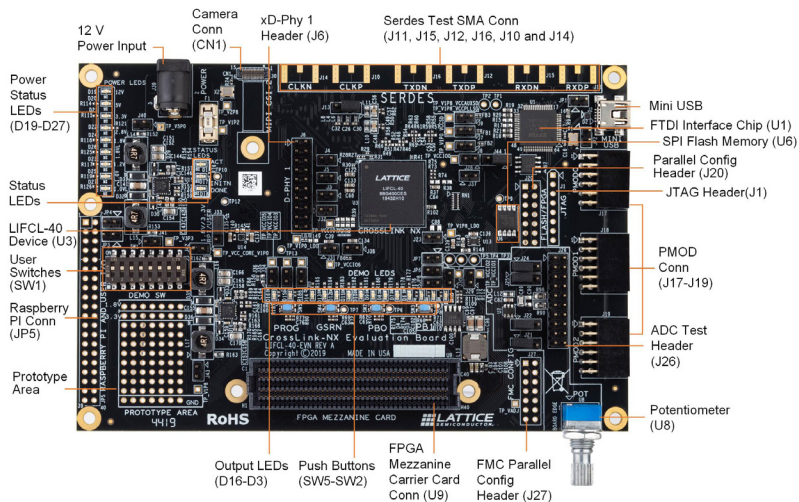


This document provides a brief introduction to CrossLink-NX Evaluation Board.



1

Check Kit Contents

The CrossLink-NX Evaluation Board kit contains the following items

- CrossLink-NX 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 Radiant development software (optional to use).
- Quick Start Guide

2

Using the CrossLink-NX Evaluation Board

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

To develop your own solutions, download and use the Lattice Radiant design software (version 2.0 or later), downloadable from www.latticesemi.com/software.

In case you need it, this board includes a limited license for Lattice Radiant allowing access to design with the LIFCL-40 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 Radiant Programmer standalone software (version 2.0 or later).

4**Powering the Board & Observing the Demo Program**

Connect the supplied power adapter to the 12 V DC power input (J39) on the board. Power LEDs (D19-D27) should light, indicating the board is powered. Early I/O demo design is programmed into onboard boot flash (U6), you should observe LED 0 (D3) as mapped an early I/O immediately turns on as soon as 12 V power is supplied to the board. After about two seconds, as configuration is successfully completed, DONE LED (D18) should light up, then LED2 (D5), and LED3 (D6) alternately in a heartbeat pattern.

5**Doing More with the CrossLink-NX Evaluation Board**

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

Additional Terms and Conditions Applicable to Lattice Programming and Development Hardware

Lattice device programmers, programming cables, socket adapters, and other hardware sold for use in conjunction with Lattice software ("Programming Hardware") and Lattice evaluation boards and development kits sold for use in conjunction with evaluating Lattice products ("Development Hardware") are designed and intended for use solely with semiconductor components manufactured by Lattice Semiconductor Corporation. Programming and Development Hardware is warranted to meet Lattice specifications only for a period of ninety (90) days; in all other respects the terms and conditions of sale of Programming and Development Hardware shall be Lattice's standard terms and conditions set forth in Lattice's Sales Order Acknowledgment. Additionally, Lattice specifications for Programming and Development Hardware limit their use to low-volume engineering applications only, and not for volume production use. The warranty for Programming and Development Hardware will not apply to any Programming or Development Hardware used in production, used with worn or improperly installed hardware, or used with incompatible systems or components.

Technical Support

www.latticesemi.com/support

Copyright © 2019 Lattice Semiconductor Corporation. Lattice Semiconductor, L (stylized) Lattice Semiconductor Corp., Lattice (design), Lattice Diamond, Radiant and ICE40 are either registered trademarks or trademarks of Lattice Semiconductor Corporation in the United States and/or other countries. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies.