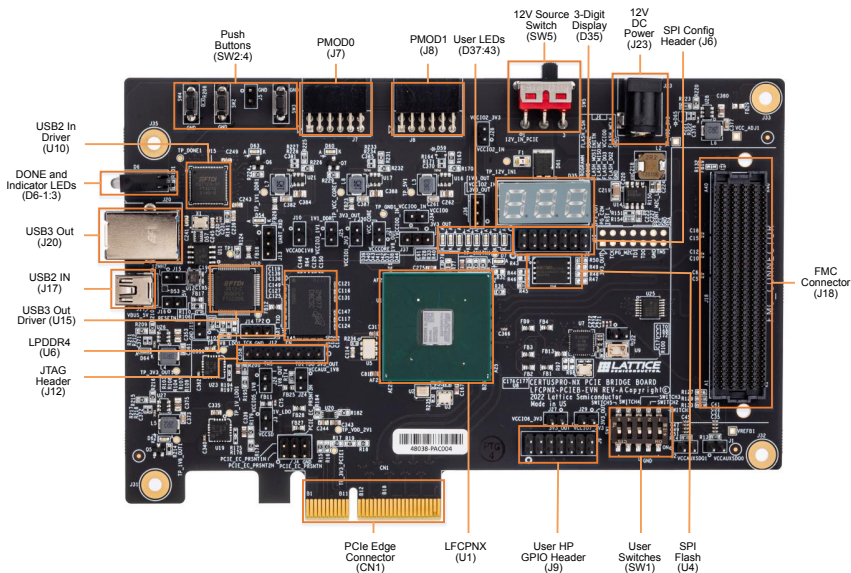


This document provides a brief introduction to the CertusPro-NX PCIe Bridge Board



1

Check Kit Contents

The CertusPro-NX PCIe Bridge Board kit contains the following items:

- CertusPro-NX PCIe Bridge Board
- 12V AC/DC power adapter and international plug adapters
- Cables
- Quick Start Guide with Lattice Radiant software download information

2

Using the CertusPro-NX PCIe Bridge Board

The CertusPro-NX PCIe Bridge Board as shipped can support both Master SPI (MSPI) and Slave SPI (SSPI) modes for configuration. The external SPI Flash Configuration Memory is pre-loaded with a demonstration program described below.

3

Installing the Software

To develop your own solutions, download and use the Lattice Radiant design software (version 3.2 or later), download from www.latticesemi.com/radiant. If you only need to re-program the board, you can use the Radiant Programmer Standalone software (version 3.2 or later).

4

Powering the Board and Observing the Demo Program

Make sure that the following jumpers are installed as per their default positions.

Jumper	Pins to Connect
J4	Pin 2 to Pin 4 (PCIe X4)
J13	Pin 1 to Pin 2 (Short FTDI UART)
J14	Pin 1 to Pin 2 (Short FTDI UART)
J36	Pin 1 to Pin 2 (VCCIO2 to 3.3V)
J37	Pin 1 to Pin 2 (VCCIO0 to 3.3V)

The 12 V power supply should be connected to J23 and switch RIGHT the SW5 to power the board. The following LEDs will light up indicating the board is powered.

LED D60	Green Light
LED D62	Green Light
LED D63	Green Light
LED D64	Green Light

Configuration of the LFCPNX-100-9LFG672 (U1) from the external SPI Flash Configuration Memory takes a few seconds. Immediately after configuration:

LED D6-1 (Top)	Green light indicate boot done
3-Digit Display D35	Red light illuminated 8.8.8.
User LEDs D37-43	Green light illuminated in a repeating pattern

DIP switch (SW1) and Switch 4 (SW4) change the behavior of the User LEDs pattern and the value displayed on the 3-Digit Display respectively.

5

Doing More with the CertusPro-NX Versa Board

For more information on the board, go to www.latticesemi.com/certuspro-nx-pcie-bridge-board. You can use the Lattice Radiant software to develop and program your own demos.

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www.latticesemi.com/support

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