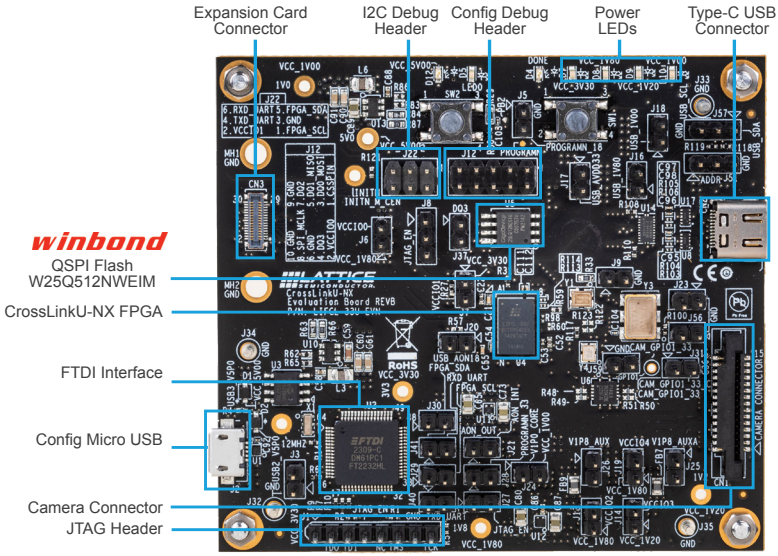
# QuickSTART

# Lattice CrossLinkU™-NX Evaluation Board

This document provides a brief introduction to the Lattice CrossLinkU-NX Evaluation Board.




## 1 Check Kit Contents

The Lattice CrossLinkU-NX Evaluation Board kit contains the following items:

- Lattice CrossLinkU-NX Evaluation Board
- Lattice CrossLinkU I/O Daughter Board
- Micro USB cable for Programing (USB-A to Micro-B)
- USB3.1 Type C Cable for Aggregation(USB Type C to USB Type C).
  *For optimal USB performance, use high-quality Type-C to Type-C or Type-C to Type-A cables from the recommended links.*
- Quick Start Guide
- Lattice Radiant® software download information

## 2 Using the Lattice CrossLinkU-NX Evaluation Board

The Lattice CrossLinkU-NX Evaluation Board as shipped supports Master-SPI Based Configuration. The External SPI Flash Configuration Memory is pre-loaded with USB Aggregation Demonstration.

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## 3 Installing the Software

The Lattice CrossLinkU-NX Evaluation Board comes preprogrammed with a basic demo. To develop custom solutions, use Lattice Radiant and Propel (version 2024.2 or later). For reprogramming only, the Radiant Programmer standalone software (2024.2 or later) is sufficient.

## 4 Powering the Boards and Observing the Demo Program

The board has two USB connectors (Micro USB and Type C), and can be powered via either. Connect the Type C cable to your PC—green LEDs will light up to confirm power. The Lattice CrossLinkU-NX (U4) loads its bitstream from flash memory (U5), and LED D4 will glow once configuration is complete. You'll see "Lattice USB23" under Universal Serial Devices in Device Manager. For more on the I/O Aggregation Demo, refer to the I/O Aggregation Over USB with CrossLinkU-NX Reference Design - User Guide at latticesemi.com.

## 5 How to get the USB3 Vision Design Source Code

To maximize our solution's capabilities, you may need access to the source code for integration, customization, or deeper understanding. Simply log in to our Support Portal, create a ticket with the subject line: "Source Code Request – CrossLinkU-NX Evaluation Board with USB3 Vision Design Source Code Bundle", and include your contact details (Name & Company) along with your Purchase Order (PO).

## 6 Doing more with the Lattice CrossLinkU-NX Evaluation Board

Check the Lattice website at latticesemi.com/products/developmentboardsandkits/crosslinku-nx-evaluation-board to download the full User Guide, the full source code of the default demo, and other resources. You can use the Lattice Radiant and Lattice Propel software tool 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



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