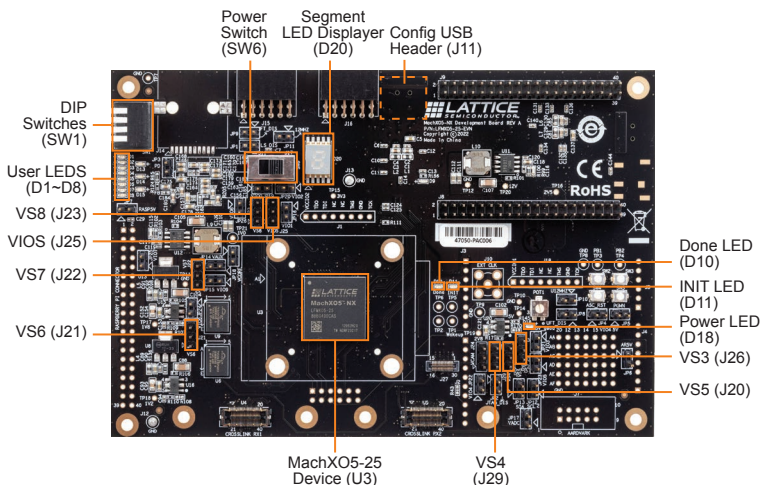


This document provides a brief introduction to the MachXO5™-NX Development Kit.



1

Check Kit Contents

The MachXO5-NX Development Board kit contains the following items:

- MachXO5-NX Development Board
- 12 V AC/DC Adapter and International Plug Adapters
- USB Cable for Programming via PC (USB-A to Mini-B)
- Quick Start Guide
- Lattice Radiant software download information

2

Using the MachXO5-NX Development Board

The MachXO5-NX Development Board as shipped supports Internal Flash boot-based configuration. The internal Flash Configuration Memory is pre-loaded with a LED blink demonstration program.

3

Installing the software

The MachXO5-NX Development Board is pre-programmed with a basic demonstration.

To develop your own solutions, download and use the Lattice Radiant design software (version 3.1 or later) in www.latticesemi.com/software.

If you only need to re-program the board, you can use the Radiant Programmer Stand-alone software (version 3.1 or later).

4

Powering the Boards and Observing the Demo Program

Make sure that the following jumpers are installed already for selected power suppliers.

MachXO5™-NX Development Kit	
Jumper	Pins to Connect
J20	Pin 1 to Pin 2 (VCCIO5 to 1.2 V)
J21	Pin 1 to Pin 2 (VCCIO6 to 1.2 V)
J22	Pin 1 to Pin 2 (VCCIO7 to 3.3 V)
J23	Pin 1 to Pin 2 (VCCIO8 to 3.3 V)
J25	Pin 1 to Pin 2 (VCCIO0/VCCIO2 to 3.3 V)
J26	Pin 1 to Pin 2 (VCCIO3 to 3.3 V)
J29	Pin 2 to Pin 3 (VCCIO4 to 1.2 V)

The USB cable should be connected from backside Mini-USB header J11 to a PC, and switch LEFT the SW6 to power on the board. The following LEDs will light up indicating the board is powered.

LED D18	Blue Light
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Configuration of the MachXO5-25 (U3) from the internal Flash memory is completed almost immediately. After configuration.

LED D10	Green light indicate boot done
LED D11	Not light indicate no failure during boot
LED D1~D8	Red light illuminated in a repeating pattern
LED D20	All segments are blinking

5

Doing More with the MachXO5-NX Development Board

Check the Lattice website at www.latticesemi.com/MachXO5-NX-Development-Board 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.

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Technical Support

www.latticesemi.com/support

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