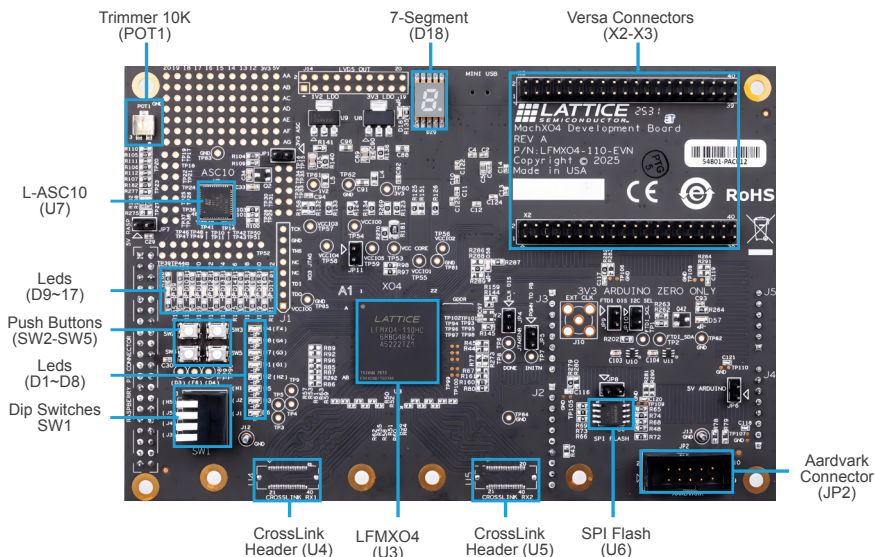This document provides a brief introduction and instructions to install and run the Lattice MachXO4 Development Board on Windows 7/10/11. For full documentation, schematics, demonstration programs and more, go to latticesemi.com/machxo4-development-board.

Caution: The MachXO4 Development Board contains ESD-sensitive components. ESD safe practices should be followed while handling and using the development board.

Trimmer 10K (POT1)
7-Segment (D18)
Versa Connectors (X2-X3)
L-ASC10 (U7)
Leds (D9~17)
Push Buttons (SW2-SW5)
Leds (D1~D8)
Dip Switches SW1
CrossLink Header (U4)
LFMXO4 (U3)
CrossLink Header (U5)
SPI Flash (U6)
Aardvark Connector (JP2)

1 Check Kit Contents

The Lattice MachXO4 Development Board Kit contains the following items:

- MachXO4 Evaluation Board pre-loaded demo bit
- USB Cable for Programming vis PC (USB-A to Mini-B)
- Quick Start Guide with Lattice Radiant software download information

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2 Power Up the Board

- Check the default jumper settings: JP1, JP5, JP7, JP10, and JP11 should be populated
- Connect the mini-USB cable between J11 and your PC's USB port. The blue LED (D18) will light to indicate 5V power, and one of red LEDs (D6) will blink according to the preprogrammed design.

Note: Only one power source is recommended if setting JP6 or JP7

3 Hardware Management

- Press and release push button SW2 and observe LED group as below
- LED Group (D9, D10, D11, D12, D13, D14, D15, D16 and D17)
  - LED Group will illuminate in a specific pattern

4 Done!

Congratulations! You have successfully demonstrated the MachXO4 Development Board.

Please refer to the MachXO4 Development Board User's Guide, available on the Lattice web site at latticesemi.com/machxo4-development-board, for the following resources:

- Detailed information on addtional development board features and operation
- Schematics
- Gerber PCB layout artwork
- Reference Designs, Demo Designs, Technical Notes, and Application Notes
- Data Sheets for XO4 and ASC devices

Additional Terms and Conditions Applicable to Lattice Programming and Development Hardware

Technical Support

www.latticesemi.com/support

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