

# MachXO3D Breakout Board



**Low-cost, Easy-to-use Platform** - The MachXO3D Breakout Board is used for evaluating and designing with the [MachXO3D device family](#), which represents a first in the programmable logic industry by embedding an immutable security block which enables a hardware Root-of-Trust (RoT) onto a highly optimized and versatile FPGA fabric.

**What's Included** - The board comes in 3 x 3 inch form factor and features a USB mini-B connector for power and programming, an LED array, and prototype area. A USB cable is included with the kit.

**Preloaded Demo** - The Board includes a preloaded counter design that highlights use of the embedded MachXO3D oscillator and programmable I/O configured for LED drive.

## Features

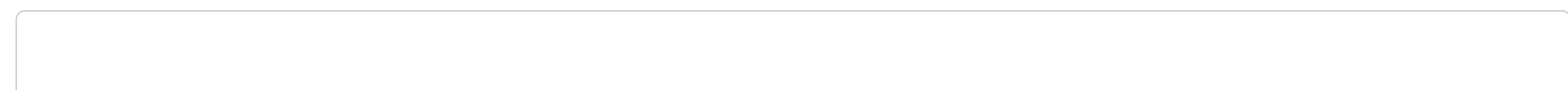
- MachXO3D FPGA - Flash-based LCMXO3D-9400HC-5BG256C
- USB mini-B connector for power and programming; Eight LEDs; 40-hole prototype area
- 16 Mb Serial Flash Memory for external SPI boot-up support
- Four 2 x 20 expansion header landings for general I/O, JTAG, and external power
- 1 x 8 expansion header landing for JTAG; 1 x 6 expansion header landing for SPI/I<sup>2</sup>C
- 3.3 V and 1.2 V supply rails

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## Board Photos





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Top View



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Bottom View










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Side View

## Ordering Information

- Ordering Part Number: LCMXO3D-9400HC-B-EVN
- [Click here](#) to find an authorized Lattice distributor near you
- [Click here](#) to order now from the Lattice Online Store

## Documentation

Quick Reference	Downloads
<p>User Manual</p>	<p><a href="#">Design File</a></p>
<p>             TITLE  </p> <p>           NUMBER            VERSION            DATE  </p>	
<p><input type="checkbox"/></p>	<p>MachXO3D Breakout Board User Guide </p> <p>FPGA-UG-02084 0.9 1/27/2020</p>
<p><input type="checkbox"/></p>	<p>Select All <input type="checkbox"/> <span>Notify Me of Changes *</span> <span>Download Selected as Zip File</span></p>

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