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MachXO3D Breakout Board



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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/I²C
- 3.3 V and 1.2 V supply rails

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Board Photos



Top View

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Side View

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Ordering Information

- Ordering Part Number: LCMXO3D-9400HC-B-EVN
- [Click here](#) to find an authorized Lattice distributor near you
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Documentation

Quick Reference				Downloads		
User Manual				Design File		
		TITLE ▾	NUMBER ▾	VERSION ▾	DATE ▾	FORMAT ▾
<input type="checkbox"/>	<input type="checkbox"/>	MachXO3D Breakout Board User Guide	FPGA-UG-02084	0.9	1/27/2020	PDF
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