



Diamond Design Software from Lattice Semiconductor Enables Enhanced Security Features for MachXO3D FPGAs

November 14, 2019

HILLSBORO, Ore.--(BUSINESS WIRE)--Nov. 14, 2019-- [Lattice Semiconductor Corporation](http://www.latticesemi.com) (NASDAQ: LSCC), the low power programmable leader, today announced immediate availability of a new software release (SP1) for its powerful Lattice Diamond® 3.11 design software that includes new capabilities to access the MachXO3D™ FPGAs security features that protect system firmware against data and design theft, product cloning and overbuilding, and tampering.

"Firmware is an increasingly popular threat vector for today's cyberattacks and can leave companies exposed to threats against their products, profitability, and corporate reputation. OEMs are looking for easy to implement, hardware-based security solutions that help their computing, communications, industrial control and automotive systems protect, detect and recover from firmware attacks," said Roger Do, Senior Product Line Manager, Software at Lattice. "These new features in our Diamond software enable locking and encryption in the MachXO3D that protect against unauthorized access or modification of the FPGAs flash memory, thus preventing any functional device modification or erasure."

The new Diamond 3.11 software release simplifies creation of the public, private, and encryption keys that confirm the authenticity and confidentiality of a MachXO3D FPGA bitstream; a requirement for implementing Root of Trust (RoT) applications. Furthermore, designers can quickly and easily build RoT algorithms that block external attacks by dynamically locking the MachXO3D's read, program, and erase protection features. The new software release also enables protection of secure key material and system configuration and protection boundary manifests stored in the MachXO3D device's internal flash memory.

For more information about Lattice Diamond design software, please visit www.latticesemi.com/en/Products/DesignSoftwareAndIP/FPGAandLDS/LatticeDiamond.

For more information about the MachXO3D FPGAs for secure system control, visit <http://www.latticesemi.com/MachXO3D>.

About Lattice Semiconductor

Lattice Semiconductor (NASDAQ: LSCC) is the low power programmable leader. We solve customer problems across the network, from the Edge to the Cloud, in the growing communications, computing, industrial, automotive and consumer markets. Our technology, long-standing relationships, and commitment to world-class support lets our customers quickly and easily unleash their innovation to create a smart, secure and connected world.

For more information about Lattice, please visit www.latticesemi.com. You can also follow us via [LinkedIn](#), [Twitter](#), [Facebook](#), [YouTube](#), [WeChat](#), [Weibo](#) or [Youku](#).

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Source: Lattice Semiconductor Corporation

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