



Lattice Sentry

Installation Guide

FPGA-AN-02032-1.0

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To implement Sentry PFR, install Lattice Diamond and Lattice Propel as described below.

<http://www.latticesemi.com/diamond>

1. Install Lattice Diamond 3.11
2. Install Lattice Diamond Service Pack 3
3. Install Diamond 3.11 64-bit Encryption Pack

<http://www.latticesemi.com/propel>

1. Install Lattice Propel 1.0
2. Install NGO Encryption Pack

<http://www.latticesemi.com/sentry>

1. Install Sentry RISC-V Solution for Propel (Propel 1.0 Patch for Lattice Sentry)

This installation allows you to build an evaluation-only Lattice Sentry PFR-based FPGA bitstream. To build a manufacturable Sentry PFR bitstream, contact your Lattice sales representative to purchase the Lattice Sentry PFR IP Package for MachXO3D.

It is also necessary to purchase a Diamond license to enable the MachXO3D Embedded Security Block (ESB). The ESB contains the security features, such as AES Encryption, ECC-256, and SHA-256. The Diamond license is required for the Sentry PFR or any application of MachXO3D which uses the Embedded Security Block.



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