

December 18, 2014

Subject: PCN# 07A-14, 90-Day Notification of Intent to Utilize an Alternate Qualified Foundry Site and Alternate Qualified Mask Sets for the LA-MachXO Family

Dear Lattice Customers:

Lattice is providing this 90-day notification of our intent to utilize an alternate qualified foundry site and Alternate Qualified Mask Sets for the Automotive Grade LA-MachXO™ family.

Change Description

As communicated via ACN#05A-13 issued in July 2013, Lattice is transferring the LA-MachXO product family from Fujitsu Semiconductor's 200mm fab in Mie, Japan to their 300mm adjacent fab. Lattice is taking advantage of this fabrication line consolidation effort within Fujitsu Semiconductor to make this move to a newer, more advanced production line.

Transfer to this newer 300mm line will help ensure longevity for this successful and widely adopted programmable logic device (PLD) family. There have been no changes made to the device's form, fit or function.

Affected Products

The Ordering Part Numbers (OPNs) affected by this PCN are listed in Exhibit A. This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade and package, etc.), which are derived from any of the devices listed in the table in Exhibit A.

Device Identification

Devices with this new alternate qualified mask set can be identified by the first alpha character of the Inspection Lot Number ("B" for the 300mm fab manufactured product), which is marked on the topside of the device. Inspection lot numbers are also marked on the label on the outside of the inventory box as well as on the anti-static moisture barrier bag within. See device topside marking examples below.



"B" in the first position of Datecode indicates 300mm fab manufactured product

DATA SHEET SPECIFICATIONS

This PCN has no impact on any data sheet performance specifications.

Qualification Data

Reliability testing for the qualification of these LA-MachXO devices on the 300mm fab-manufactured devices is complete. This testing is performed in accordance with Automotive Electronics Council (AEC-Q100) requirements. A summary of the qualification data is available [Here](#) . Production Part Approval Process (PPAP) documentation is available upon request.

Characterization Data

A device characterization report is available [Here](#).

Frequently Asked Questions (FAQ)

Lattice recommends that customers refer to the FAQ document available [Here](#) to find answers to commonly asked questions regarding this PCN.

Sample Support

Conversion timing for this PCN is 90 days from the date of this Notice. No action is required (meaning no changes to OPNs, your internal Bills of Material, backlog or orders) unless you plan to do further evaluation.

Should samples be required to complete evaluation of this PCN, such sample requests must be received no later than January 30, 2015 (30 days after the date of this Notice). Samples for this PCN will use the “**FJ3**” suffix appended to the standard OPNs as shown in the example below:

Example:

Standard OPN:	LAMXO640C-4FTN256C
300mm Device Sample OPN:	LAMXO640C-4FTN256CFJ3

300mm line device samples for the LA-MachXO are available for shipment before December 31, 2014. Customers will have 90 days to evaluate this PCN from receipt of samples.

Conversion Timing Summary

- **Sample Request Cut-off Date: January 30, 2015**
- **PCN Expiration Date: March 31, 2015**

Response

In accordance with JESD46-D, this change is deemed accepted by the customer if no acknowledgement is received within 30 days from this Notice. Lattice PCNs are available on the Lattice PCN web page. Please sign up via the Lattice Semiconductor Home Page: <http://www.latticesemi.com> Applications & Literature Hotline: 1-800-LATTICE to receive e-mail PCN alerts by registering here. If you already have a Lattice web account and wish to receive PCN alerts, you can do so by logging into your account and making edits to your subscription options.

Contact

If you have any questions or require additional information, please contact pcn@latticesemi.com.

Sincerely,
Lattice Semiconductor PCN Administration

EXHIBIT “A” – Affected Device Listing

Ordering Part Number OPN
LAMXO256C-3TN100E
LAMXO256E-3TN100E
LAMXO640C-3FTN256E
LAMXO640C-3TN100E
LAMXO640C-3TN144E
LAMXO640E-3FTN256E
LAMXO640E-3TN100E
LAMXO640E-3TN144E
LAMXO1200E-3FTN256E
LAMXO1200E-3TN100E
LAMXO1200E-3TN144E
LAMXO2280E-3FTN256E
LAMXO2280E-3FTN324E
LAMXO2280E-3TN100E
LAMXO2280E-3TN144E

Note: This PCN also affects any custom devices (i.e. factory programmed, special test, tape and reel, non-standard speed grade, etc), which are derived from any of the devices listed above.