

July 25, 2016

Subject: PCN#10A-16 90-Day Notification of Intent to Utilize an Alternate Qualified Mask Set for the iCE40 UltraLite™ Products

Dear Customer,

Lattice is providing this notification of our intent to utilize an alternate qualified mask set for the iCE40 UltraLite™ Products.

Change Descriptions

As part of Lattice continuous improvement efforts, Lattice is releasing an alternate qualified mask set as a manufacturing enhancement.

The use of this alternate qualified mask set will not change function, form, fit or external package dimensions.

Affected Devices

The Ordering Part Numbers (OPNs) affected by this PCN are as follows:

ICE40UL1K-CM36AI

ICE40UL1K-CM36AITR

ICE40UL1K-CM36AITR1K

ICE40UL1K-SWG16ITR

ICE40UL1K-SWG16ITR1K

ICE40UL1K-SWG16ITR50

ICE40UL640-CM36AI

ICE40UL640-CM36AITR

ICE40UL640-CM36AITR1K

ICE40UL640-SWG16ITR

ICE40UL640-SWG16ITR1K

ICE40UL640-SWG16ITR50

This PCN also affects any custom devices (i.e. factory programmed, special test, non-standard speed grade, etc), which are derived from these devices.

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 alternative mask 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.

iCE40UL1K in 36 BGA

iCE40UL1K in WLCSP

UL1K36A **BYWWATXX** **UL1K16** BY

WWATXX

Datecode indicates the alternate mask set

COO = Country Of Origin code

"B" in the first position of

Data Sheet Specifications

coo

This PCN has no impact on any data sheet specifications. The alternate mask set devices are fully backward compatible in all applications.

Qualification Data

Qualification reliability testing for iCE40 UltraLite devices has been completed. A summary of the qualification data is available here.

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 August 15, 2016 (30 days after the date of this Notice). Samples will be available in middle of August. Samples for this PCN will use the "ALE" suffix appended to the standard OPNs as shown in the example below. PLEASE NOTE: Samples are available only in tray packaging for the CM36A package, and TR50 reel quantities for the SWG16 package.

Example:

Standard OPN: ICE40UL1K-CM36AI

ICE40UL640-SWG16ITR

Available Alternate Device Sample OPNs:

ICE40UL1K-CM36AI**ALE**

ICE40UL1K-SWG16ITR50ALE

ICE40UL640-CM36AIALE

ICE40UL640-SWG16ITR50ALE

Customers will have 90 days to evaluate this PCN from receipt of samples.

PCN Timing

Conversion timing for this PCN is 90 days from the date of this Notice. Samples will be available in the

middle of August.

Customers will have 90 days to evaluate this PCN from receipt of samples.

PCN Timing Summary

Sample Request Cut-Off Date:

August 25, 2016

PCN Expiration Date:

October 25, 2016

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

website. Please sign up 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