August 29, 2016

Subject:  PCN#12A-16 Notification of Intent to Utilize an Alternate Qualified Test Site for the iCE40 Ultra, iCE40 UltraLite, and LIF-UC120 WLCSP Package Devices

Dear Lattice Customer,

Lattice is providing this 90-day Notification of our intent to utilize an alternate qualified test site for the iCE40 Ultra™, iCE40 UltraLite™, and LIF-UC™120 devices in Wafer Level Chip Scale Package (WLCSP) devices.

In an effort to expand our test capacity for high-running devices, Lattice will now use King Yuan Electronics Co. Ltd. (KYEC), Chu-Nan, Taiwan for select devices. KYEC will use the same Automated Test Equipment (ATE), test hardware and test program software as is currently used at other Lattice test sites. Devices tested at KYEC will meet all existing specifications.

Affected Products
The Ordering Part Numbers (OPNs) affected by this PCN are listed below. 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.

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Ordering Part Number (OPNs)</th>
<th>Package Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICE40UL640</td>
<td>ICE40UL640-SWG16ITR</td>
<td>16-Ball WLCSP</td>
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<tr>
<td></td>
<td>ICE40UL640-SWG16ITR1K</td>
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<tr>
<td></td>
<td>ICE40UL640-SWG16ITR50</td>
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</tr>
<tr>
<td>ICE40UL1K</td>
<td>ICE40UL1K-SWG16ITR</td>
<td>16-Ball WLCSP</td>
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<tr>
<td></td>
<td>ICE40UL1K-SWG16ITR1K</td>
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<tr>
<td></td>
<td>ICE40UL1K-SWG16ITR50</td>
<td></td>
</tr>
<tr>
<td>ICE5LP1K</td>
<td>ICE5LP1K-SWG36ITR</td>
<td>36-Ball WLCSP</td>
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<tr>
<td></td>
<td>ICE5LP1K-SWG36ITR50</td>
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<tr>
<td></td>
<td>ICE5LP1K-SWG36ITR1K</td>
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</tr>
<tr>
<td>ICE5LP2K</td>
<td>ICE5LP2K-SWG36ITR</td>
<td>36-Ball WLCSP</td>
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<tr>
<td></td>
<td>ICE5LP2K-SWG36ITR50</td>
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<tr>
<td></td>
<td>ICE5LP2K-SWG36ITR1K</td>
<td></td>
</tr>
<tr>
<td>ICE5LP4K</td>
<td>ICE5LP4K-SWG36ITR</td>
<td>36-Ball WLCSP</td>
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<td>ICE5LP4K-SWG36ITR50</td>
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<td>ICE5LP4K-SWG36ITR1K</td>
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<tr>
<td>LIF-UC120</td>
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<td>LIF-UC120-SWG36ITR50</td>
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</tr>
<tr>
<td></td>
<td>LIF-UC120-SWG36ITR1K</td>
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</tbody>
</table>
**Device Identification**

Devices tested at KYEC, Taiwan can be identified by the 6th character ("E") of the datecode marked on the topside of the devices. This datecode is 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:

- **iCE40UL**
  - UL1K16 XX
  - XXXEXX

- **iCE5LP**
  - ICE5LP4K WG36I
  - XXXXXXXX COO

  "E" in the sixth position of Datecode indicates product tested in KYEC, Taiwan

**Datasheet Specifications**

This PCN has no impact on any datasheet specifications.

**Sample Requests**

This PCN only pertains the additional qualified test site for Lattice products and there are no changes to the device material set, fit, form and function of the product; therefore, samples will not be available.

**Response**

No customer response is required. If customers have questions about the datasheet changes described above, they should contact their local field support for further assistance.

KYEC tested devices will start shipping 90 days from this notice date, that is by November 29, 2016.

Lattice PCNs are available on the [Lattice PCN web page](http://www.latticesemi.com). Please sign up to receive e-mail PCN alerts by registering [here](http://www.latticesemi.com). If you already have a Lattice web account and wish to receive PCN alerts, you can do so by logging into [your account](http://www.latticesemi.com) and making edits to your subscription options.

**Contact**

If you have any questions or require additional information, please contact [pcn@latticesemi.com](mailto:pcn@latticesemi.com).

Sincerely,

Lattice Semiconductor PCN Administration