

October 31, 2016

**Subject: PCN#13A-16 Notification of Changes to Device Topside Mark for Silicon Image Products and Shipping Box/Label Design for all Lattice Products**

Dear Lattice Customer,

Lattice is providing this notification of our intent to change the topside marks for Silicon Image (SIMG) products and shipping box/label design for all Lattice products. As part of the continued integration effort of the Silicon Image acquisition, these changes will ensure that the Silicon Image products are consistent with existing Lattice products. The conversion to the new device topside mark, shipping boxes/labels will be a gradual transition until existing inventories have been exhausted.

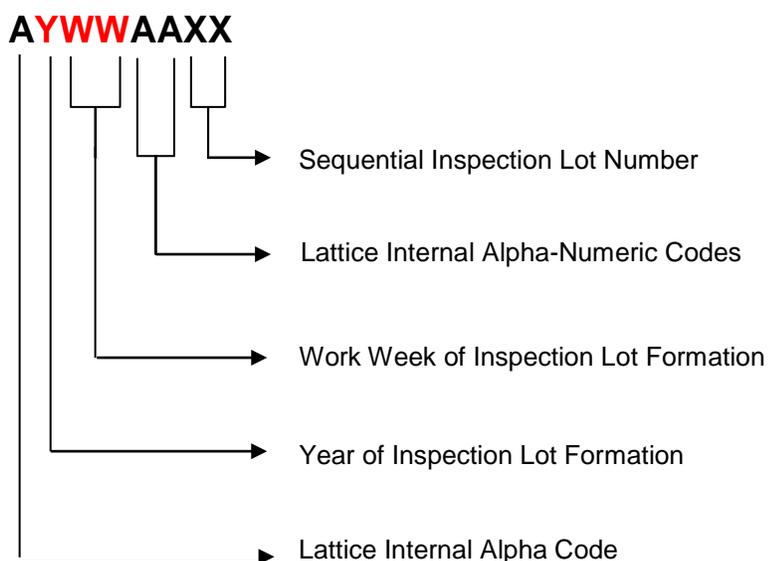
A description of each of the changes follows:

**1. Device Topside Marking:** There are three changes pertaining to the device topside marks :

- Datecode and Lot ID:

The work week information currently available on most Silicon Image devices (YYWW format) will now be available in a “YWW” format in the second, third and fourth positions of Lattice’s 8-character datecode as shown below. The Lot ID information and trace code that currently appears on Silicon Image devices will no longer be available on the topmark. Please refer to Exhibit “A” to understand the changes with respect to individual packages.

**Lattice Datecode (Lot ID) Format:**



- Logo Change:

Depending on the package size, Silicon Image devices may or may not have a logo marked on the topmark. For packages that currently have a logo, the device topmark can either carry a full form or a short form Lattice logo. Logo formats for individual packages are listed in Exhibit “A”. Custom devices that currently use a custom logo will continue to be marked with the same custom logo. A comparison of topside marks using the current and new logos (in both formats) is shown in the examples below:

	<b>Current Logo Format (Example)</b>	<b>New Logo Format (Example)</b>
<b>No Logo</b>	<b>6031</b> <b>DNLLL</b> <b>A2YWW</b>	<b>6031</b> <b>A64</b> <b>35D55</b>
<b>Short Format</b>	 <b>Sil6400CZU</b> <b>LLLLLL.LL-L</b> <b>LLLLLL.LL-L</b> <b>YYWW</b> <b>AH0110AD2</b>	 <b>Sil6400CZU</b> <b>A643DD55</b>  <b>TAIWAN</b>
<b>Full Format</b>	 <b>Sil9293CNUC</b> <b>LLLLLL.LL-L</b> <b>YYWW</b> <b>AH02ND2</b>	<b>LATTICE</b>  <b>Sil9293CNUC</b> <b>A6435D55</b>  <b>TAIWAN</b>

- Country of Origin:

The Country of Origin (COO) information will also be added following Lattice’s format.

- **AFFECTED DEVICES**

Topmark changes in this PCN apply to all Silicon Image devices.

## 2. Shipping Box/Label Changes:

Lattice will also be altering our shipping box and labels. Both Lattice and Silicon Image products will be subject to the following changes.

- Shipping Box (Outer Box) Changes:
- For all shipping boxes that are designed to ship multiples of our innermost shipping box, they will have all art work removed and will be a brown color.
- Innermost Shipping Box:
  - The return address on all boxes will now be Lattice Singapore Pte. Ltd.
  - A patent statement will be added
  - Silicon Image logos & elements will be replaced with Lattice logos and elements. Physical dimensions and properties of the boxes are unchanged.
- Label Changes:

All Lattice and Silicon Image labels for inner box, moisture barrier bag, outer box and factory seal will now be replaced by the new label format. See Exhibit "B."

The Changes include the following:

- 2D Barcode is being added, following the ECIA standard EIG114.1
- Silicon Image Datecode changes
- Lattice Lot number is 1D barcode readable

**There are no changes to the customer specific shipping labels.**

### **AFFECTED DEVICES**

Topmark changes will apply to all Silicon Image devices. Label changes will apply to all Silicon Image and Lattice products. There are no changes to the customer specific shipping labels.

### **TIMING**

This change is effective immediately. As stated earlier, specific conversions will be a function of existing inventories.

**RESPONSE**

No response is required.

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](mailto:pcn@latticesemi.com).

Sincerely,

Lattice Semiconductor PCN Administration

**EXHIBIT “A”:** Topside Mark Format Examples by Package*Logo Definitions for interpreting Mark Formats*

<b>SILICON IMAGE Logo</b>	
<b>Short Form Logo</b>	
<b>Full Form Logo</b>	<b>LATTICE</b>

**QFN (3x3) SQFN (3x3) WFBGA(3x3) (3.5x3.5) – No Logo**

	<b>SILICON IMAGE Mark Format Example</b>	<b>Lattice Mark Format Example</b>
Line 1	6031	6031 A64
Line 2	SILICON IMAGE Lot #	35D55
Line 3	A2YYWW	

**SQFN (4X4) (6X6) WFBGA (4X4) (4.5X4.5) QFN (6X6) (7X7) (9X9) (10x10) TFBGA (6X6) BGA (6.5x6.5) (10x7) VFBGA (6.5x6) (8X5) LQFP (7x7) MQFN (9x9) TQFP (10x10) – Short Form Logo**

	<b>SILICON IMAGE Mark Format Example</b>	<b>Lattice Mark Format Example</b>
Line 1	SILICON IMAGE Logo	Short Form Logo
Line 2	Sil6400CZU	Sil6400CZU
Line 3	SILICON IMAGE Lot#	A643DD55
Line 4	YYWW	TAIWAN
Line 5	Trace Code	

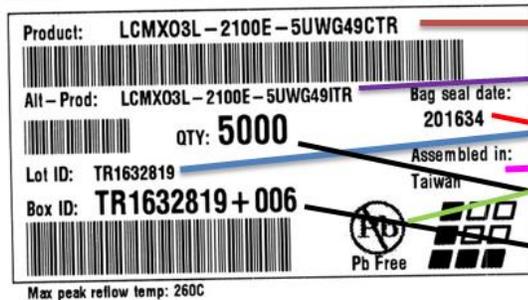
**BGA (12x12) WFBGA (12x15.6) AQFN (13x13) (14X14) QFP (14x14) TQFP(14x14) (20x20) LQFP (14x20) HSBGA (21x21) PQFP(28x28) – Full Form Logo**

	<b>SILICON IMAGE Mark Format Example</b>	<b>Lattice Mark Format Example</b>
Line 1	SILICON IMAGE Logo	Full Form Logo
Line 2	Sil9777CLUC	Sil9777CLUC
Line 3	SILICON IMAGE Lot #	A6435D55
Line 4	YYWW	
Line 5	Trace Code	TAIWAN

## EXHIBIT "B": Inner Box / Moisture Barrier Bag Label

LATTICE / NEW LABEL COMPARISON

## Inner Box Labels

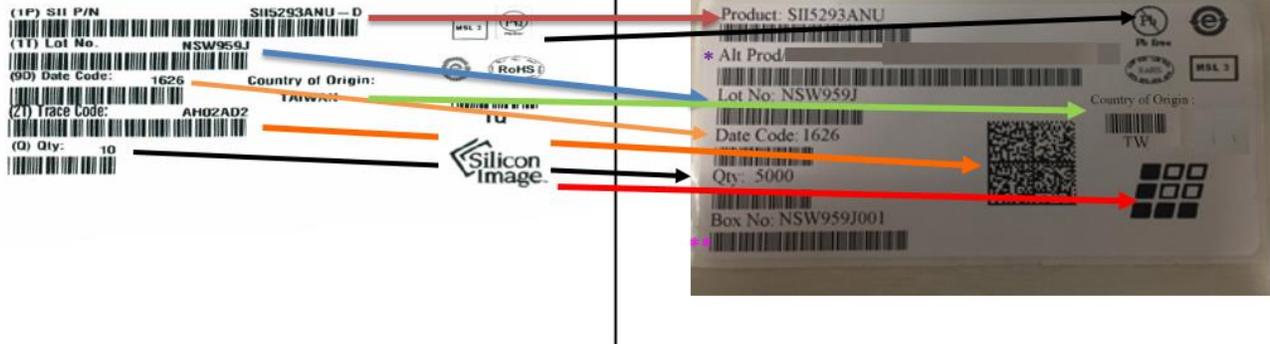
Current Lattice Inner Box LabelNew Lattice Inner Box Label

- Lattice "Product" (Ordering Part Number) for the device
- Lattice "Alt-Prod" is used when part is dual marked for both industrial and commercial use. Now has barcode
- Lattice Lot No. Now has barcode.
- \*Date Code is the assembly year and work week. YYWW format.
- Lattice box number is lot ID followed by three character sequence number.
- Lattice quantity unchanged just moved below date code.
- Country of Origin is ISO abbreviation, barcode added.
- Lead Free symbol has moved to upper corner and RoHS and MSL have been added.
- The new 2D barcode contains bag seal, Product, Alt Prod, Lot No, Date Code, Qty, Box No, Country of Origin, Trace Code(internal Lattice tracking number used for some products)

## EXHIBIT "B": Inner Box / Moisture Barrier Bag Label

SILICON IMAGE / NEW LABEL COMPARISON

## Inner Box Labels

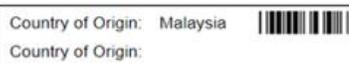
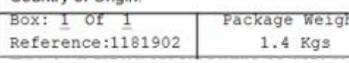
Current SIMG Inner Box LabelNew Lattice Inner Box Label

- Lattice "Product" (Ordering Part Number) for the device
- \*Lattice "Alt-Prod" is used when part is dual marked for both industrial and commercial use. Will be added to this label
- SIMT Lot No. Will be replaced with Lattice Lot number format.
- Date Code is the assembly year and work week. YYWW format.
- \*\*Lattice box number is lot ID followed by three character sequence number. It will be added to this label.
- Quantity unchanged.
- Lead Free symbol RoHS and MSL Code
- Lattice Logo replaces SIMG logo
- Country of Origin is ISO abbreviation, barcode added.
- \*\*\*The 2D barcode contains Trace Code along with Product, Alt Prod, Lot No, Date Code, Qty, Box No, Country of Origin, Bag seal

# Exhibit B (Cont.) Shipping Label

## OLD v. NEW LABEL COMPARISON Master (Outer) Box Labels

Lattice and Silicon Image Master Box Label

<b>FROM:</b>  A LATTICE SEMICONDUCTOR COMPANY 3 Changi North Street 2 #01-02B / #01-03 Singapore 498827		<b>To:</b> Arrow Central Europe GmbH c/o BV Arrow Electronics DLC Marco-Poloweg 11 VAT-No: NL821375118B01 VENLO 5928 LE NETHERLANDS	
Shipment Number: 3299825			
Customer PO: 16240546366			
Lattice Part Number: LFXP2-8E-5MN132C			
Lot No: A5331R87			
Date Code: 201533			
QTY: 355			
Country of Origin: Malaysia			
Country of Origin:			
Country of Origin:			
Box: 1 OF 1	Reference:1181902	Package Weight:	1.4 Kgs

New Lattice Master Box Label

<b>FROM:</b>  A LATTICE SEMICONDUCTOR COMPANY 3 Changi North Street 2 #01-02B / #01-03 Singapore 498827		<b>To:</b> Arrow Central Europe GmbH c/o BV Arrow Electronics DLC Marco-Poloweg 11 VAT-No: NL821375118B01 VENLO 5928 LE NETHERLANDS	
Shipment Number: 3299825			
Customer PO: 16240546366			
Lattice Part Number: LFXP2-8E-5MN132C			
Lot No: A5331R87			
Date Code: 201533			
QTY: 355			
Country of Origin: Malaysia			
Country of Origin:			
Country of Origin:			
Box: 1 OF 1	Reference:1181902	Package Weight:	1.4 Kgs
			

- The Only change to the outer box label for both SIMG and Lattice is the addition of the 2D barcode in pdf417 format.