June 18, 2012

Subject: PCN# 11A-12 Notification of Changes to Device Topside Mark and Shipping Box/Label Design for iCE Product Families

Dear Lattice Customer,

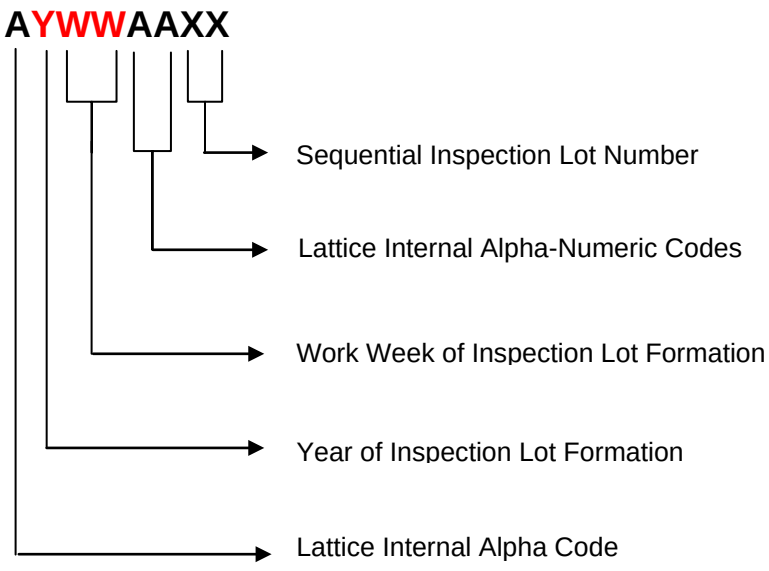
Lattice is providing this notification of our intent to change the device topside marks and shipping boxes/labels for the iCE40™ and iCE65™ product families. As part of the SiliconBlue® integration, these changes will ensure that the iCE products are consistent with Lattice products. The conversion to 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 :
   a) Datecode:

   The work week information currently available on SiliconBlue 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 that currently appears on SiliconBlue 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 :



b) Logo Change:

Depending on the package size, iCE products 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 logo. A comparison of topside marks using the current and new logos (in both formats) is shown in the examples below :

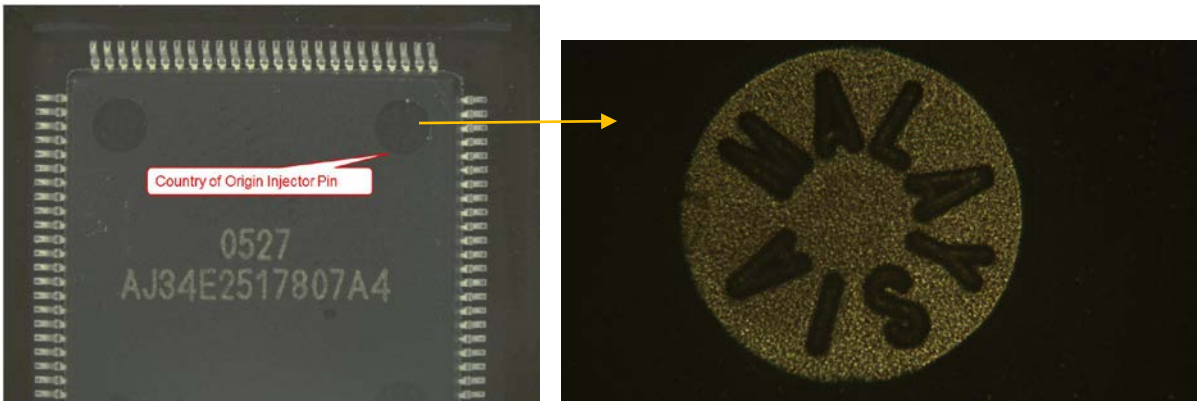
Device Topside Mark Examples for Current and New Logos		
No Logo	**LP1K81** **B903.4B** **YYWW ©M**	**LP1K81** **A2221R01** **MALAYSIA**
Short Format	**SiliconBlue** **iCE40LP1K** **QN84** **N8B903.2B** **YYWW** **© Malaysia**	 **iCE40LP1K** **QN84** **A2221R01** **Malaysia**
Full Format	 **iCE65L04F-LT** **CB284C** **N1T741.2Q** **YYWW** **© Malaysia**	 **iCE65L04F-LT** **CB284C** **A2221R01** **Malaysia**

c) Country of Origin:

The Country Of Origin (COO) information is currently displayed on SiliconBlue devices as :

"©M" or "© Malaysia"

This will be replaced by Lattice's Country Of Origin information which will be displayed as an unique line on the topside mark on all pacakges except the 100-TQFP and 144-TQFP packages. For the 100-TQFP and 144-TQFP packages, the country of origin information will be available in the injector pin as shown in images below.



2. Shipping Box/Label Changes:

a) Shipping Box Changes:

- The return address on all boxes will now be Lattice Singapore Pte. Ltd.
- A patent statement will be added
- SiliconBlue logos & elements will be replaced with Lattice logos and elements

Physical dimensions and properties of the boxes are unchanged

b) Label Changes:

All SiliconBlue labels for inner box, moisture barrier bag, outer box and factory seal will now be replaced by Lattice labels. Exhibit "B" shows a comparision of inner and outer box labels for SiliconBlue and Lattice.

AFFECTED DEVICES

The Ordering Part Numbers (OPNs) affected by this PCN are those belonging to the iCE40 and iCE65 product families. All the above changes apply to all iCE40 and iCE65 (except the WLCSP package) devices. For WLCSP devices belonging to iCE65 product family, the topside mark changes do not apply, while all other changes apply. 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 above devices.

TIMING

This change is effective immediately. As mentioned 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.

Sincerely,

Lattice Semiconductor PCN Administration

EXHIBIT "A": Mark Format Examples by Package

Logo Definitions for interpreting Mark Formats

SiliconBlue(SB) Logo	SiliconBlue® Or **SiliconBlue**
Short Form Logo	
Full Form Logo	LATTICE

36-CBGA (CM36) (2.5x2.5) and 49-CBGA (CM49) (3x3)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	LP1K36	LP1K36
Line 2	SB Lot #	DateCode
Line 3	YYWW ©M	COO

81-CBGA (CM/B81) (5x5) and 121-CBGA (CM/B121) (5x5)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	LP4K81	LP4K81
Line 2	SB Lot #	DateCode
Line 3	YYWW ©M	COO

121-CBGA(6x6)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	SB Logo	Short Form Logo
Line 2	iCE65L01F-T	iCE65L01F-T
Line 3	CB121I YYWW	CB121I
Line 4	SB Lot #	DateCode
Line 5	© Malaysia	COO

84- Quad-No-lead(7x7) and 225-CBGA(7x7)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	SB Logo	Short Form Logo
Line 2	iCE40LP1K	iCE40LP1K
Line 3	QN84	QN84
Line 4	SB Lot #	DateCode
Line 5	YYWW	
Line 6	© Malaysia	COO

Note: 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 above.

EXHIBIT “A”: Mark Format Examples by Package (Contd.)

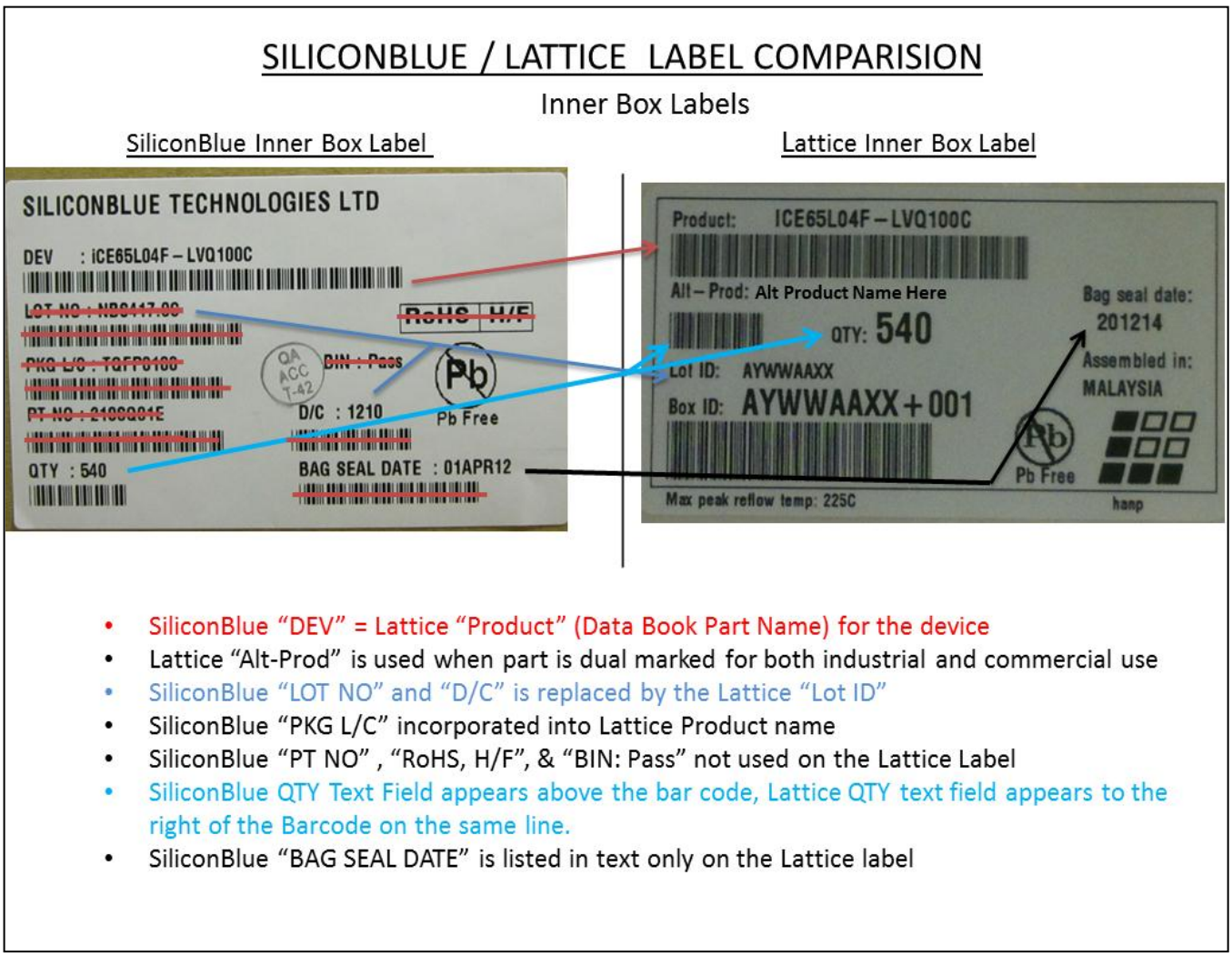
132-CBGA(8x8) and 196-CBGA(8x8)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	SB Logo	Short Form Logo
Line 2	iCE65L04F-T	iCE65L04F-T
Line 3	CB132C	CB132C
Line 4	SB Lot #	DateCode
Line 5	YYWW	
Line 6	© Malaysia	COO

284-CBGA(12x12) and 256-CBGA(14x14)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	SB Logo	Full Form Logo
Line 2	iCE65L04F-LT	iCE65L04F-LT
Line 3	CB284C	CB284C
Line 4	SB Lot #	DateCode
Line 5	YYWW	
Line 6	© Malaysia	COO

100-QFP (14x14) and 144-QFP(20x20)		
	SB Sample Mark Format	**Lattice Sample Mark Format**
Line 1	SB Logo	Full Form Logo
Line 2	iCE40HX1K	iCE40HX1K
Line 3	VQ100	VQ100
Line 4	SB Lot #	DateCode
Line 5	YYWW	
Line 6	© Malaysia	COO in Injector Pin Assembly information on bottom side of package

Note: 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 above.

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



- SiliconBlue "DEV" = Lattice "Product" (Data Book Part Name) for the device
- Lattice "Alt-Prod" is used when part is dual marked for both industrial and commercial use
- SiliconBlue "LOT NO" and "D/C" is replaced by the Lattice "Lot ID"
- SiliconBlue "PKG L/C" incorporated into Lattice Product name
- SiliconBlue "PT NO" , "RoHS, H/F", & "BIN: Pass" not used on the Lattice Label
- SiliconBlue QTY Text Field appears above the bar code, Lattice QTY text field appears to the right of the Barcode on the same line.
- SiliconBlue "BAG SEAL DATE" is listed in text only on the Lattice label

Note: 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 above.

EXHIBIT "B": Inner and Outer Box Labels – Lattice vs. SiliconBlue (Contd.)

- SiliconBlue "Ship From" & "Ship To" = Lattice "FROM:" & "TO:"
- SiliconBlue "CUSTOMER PO NUMBER" = Lattice "PURCHASE ORDER"
- SiliconBlue "CUSTOMER PART NUMBER" = Lattice "CUST PROD ID"
- SiliconBlue "DEVICE TYPE" = Lattice "LATTICE P/N"
- SiliconBlue "CARTON QUANTITY" = Lattice "QUANTITY"
- SiliconBlue "SHIPMENT NO" = Lattice "PKG ID"
- SiliconBlue "Package Count" = Lattice "PACKAGE COUNT"
- SiliconBlue "ASEM INVOICE NUMBER", "S/O #", "FORWARDER", "SHIP DATE", & "Country of Origin" not on Lattice labels

Note: 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 above.