



November 25, 2019

### Revision History

PCN#	Issue Date	Description
07A-19	July 22, 2019	Initial release
07B-19	November 25, 2019	Added statement on MSL reclassification for SN24 and SN32

### **Subject: PCN#07A-19 Notification of Intent to Utilize an Alternate Qualified Assembly and Test Site for Select Pb-Free QFN packaged devices**

Dear Lattice Customers,

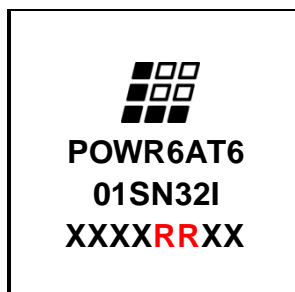
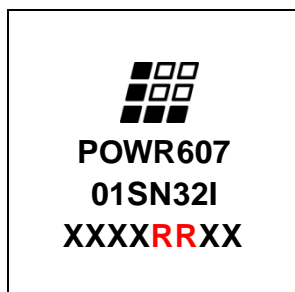
Lattice Semiconductor is providing notification of an alternate qualified assembly and test site for the ispPAC-CLK5406D, ispPAC-CLK5410D, ispPAC-POWR607, ispPAC-POWR605, and ispPAC-POWR6AT6 devices in QFN packages. This is a 70-day notification due to the unforecasted Unisem Batam factory shutdown.

### Change Description

The backend assembly and test of ispPAC-CLK5406D, ispPAC-CLK5410D, ispPAC-POWR607, ispPAC-POWR605, and ispPAC-POWR6AT6 family devices in the Pb-free QFN package is to be transferred from the Unisem (Batam, Indonesia) site to Advanced Semiconductor Engineering, Malaysia (ASEM). Unisem will be shutting down their Batam location by September 30, 2019. The ASEM material set (see Appendix A) associated with this transfer is identical to the material set of Lattice's L-ASC10-1SG48I Pb-free QFN product already qualified and in production at ASE (Malaysia).

In addition, the SN24 (24-lead) and SN32 (32-lead) QFNs will be re-classified from MSL 1 to MSL 3.

Devices assembled at ASEM are identified by the character "R" in the 5th position of the topmarked lot number. ASEM test is identified by the character "R" in the 6th position – see below for examples.



### **Effects to Customer Design**

None

### **Affected Products**

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

ispPAC-POWR607-01SN24I  
ispPAC-POWR6AT6-01SN32I  
ispPAC-POWR605-01SN24I  
ispPAC-POWR607-01SN32I  
ispPAC-CLK5406D-01SN48C  
ispPAC-CLK5406D-01SN48I  
ispPAC-CLK5410D-01SN64I  
ispPAC-CLK5410D-01SN64C

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

### **Data Sheet Specifications**

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

### **Qualification Data**

The Pb-free QFN packages at ASE (Malaysia) are qualified by extension from the existing L-ASC10-1SG48I Pb-free QFN package.

The L-ASC10 Qualification Summary includes the package qualification results and may be accessed ([HERE](#))

## **Sample Support**

Conversion timing for this PCN is 70 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. Samples will not be available until after the September 30<sup>th</sup> Unisem (Batam) shutdown date. Samples for this PCN will use the “**ANL**” suffix appended to the standard OPNs as shown in the example below:

Example:

Standard OPN: ispPAC-POWR607-01SN32I

ASEM Sample OPN: ispPAC-POWR607-01SN32I**ANL**

## **Recommended Actions**

Lattice will be unable to provide a Last Time Buy for the ispPAC-CLK5406D, ispPAC-CLK5410D, ispPAC-POWR607, ispPAC-POWR605, and ispPAC-POWR6AT6 devices produced at Unisem (Batam) due to the imminent timing of the shutdown of this location versus the time required to procure raw materials to support a Last Time Buy. Please work closely with your Customer Service representative to provide further clarification on your 2019 needs.

Customers who have further questions regarding this specification change are encouraged to contact local field support or [sales@latticesemi.com](mailto:sales@latticesemi.com).

## **PCN Timing**

Conversion timing for this PCN is 70 days from the date of this Notice.

## **DISCONTINUANCE TIMING - For ispPAC-CLK5406D, ispPAC-CLK5410D**

Per PCN#06A-19, ispPAC-CLK5406D, ispPAC-CLK5410D are to be discontinued. Because of the unforecasted Batam closure, Lattice is extending the last time buy for these devices. Customers will have 6 months to place their last time buy (LTB) orders for these devices. All LTB orders for these devices will be non-cancellable and non-returnable. All LTB orders must be placed no later than January 22, 2020 (6 months after the date of this notice) with all deliveries taken no later than July 22, 2020 (12 months after the date of this notice). Orders received after January 22, 2020 will only be accepted based on available on-hand inventory.

## **DISCONTINUANCE TIMING – SUMMARY for ispPAC-CLK5406D, ispPAC-CLK5410D**

- **Last Time Buy Order Date: January 22, 2020**
- **Last Shipment Date: July 22, 2020**

### **Response**

Due to the imminent timing of the shutdown of this location, 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.

Sincerely,

Lattice PCN Administrator

### Appendix A – Material Set

<b>Assembly Material</b>	<b>FROM, Unisem Batam, Indonesia</b>	<b>TO, ASE Malaysia (ASEM)</b>	<b>Current L-ASC10 at ASEM</b>
Mold Compound	Sumitomo EME-G770HP	Hitachi CEL 9240HF10AK-G1	Hitachi CEL 9240HF10AK-G1
Die Attach Epoxy	Sumitomo CRM-1076NS	Sumitomo CRM-1076DS	Sumitomo CRM-1076DS
Leadframe	C194	C194	C194
Plating	Matte Sn	Matte Sn	Matte Sn
Bond Wire	Gold (Au)	Gold (Au)	Gold (Au)