



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **WP1909-01**                      DATE: September 20, 2019  
 Product Affected: P9415-0AWQI (8)  
                           P9415-2AWQI (8)

Date Effective: October 20, 2019

**MEANS OF DISTINGUISHING CHANGED DEVICES:**

- |   |                                 |
|---|---------------------------------|
| <input type="checkbox"/> Product Mark     | Lot# below are from old Rev E:  |
| <input type="checkbox"/> Back Mark        | QXSL06259, QXSL06260, XSL06261, |
| <input type="checkbox"/> Date Code        | QXSL06262, QXSL06275, XSL06305, |
| <input checked="" type="checkbox"/> Other | QXSL06332, QXSL06411            |
|   | Lots thereafter are new Rev F.  |

Contact: IDT PCN Desk

Attachment:  Yes                       No

E-mail: [idt-pcn@lm.renesas.com](mailto:idt-pcn@lm.renesas.com)

Samples: Please contact your local sales representative for sample request.

**DESCRIPTION AND PURPOSE OF CHANGE:**

- Die Technology
- Wafer Fabrication Process
- Assembly Process
- Equipment
- Material
- Testing
- Manufacturing Site
- Data Sheet
- Other - Die revision change

This notice is to advise our customer of the die revision change from Rev E to Rev F. This is a metal layer change only with the purpose as follows:

1. Yield Improvements  
Bandgap Accuracy – Trim change to re-center and eliminate yield issue.  
BST (BST-AC) leakage – Minor changes to improve yield.
2. Change HVOD threshold from 80%/90% to 90%/95% setting to provide improved set-point resolution & flexibility. The new settings allow the HVOD to operate closer to the VRECT AMR limits.

Firmware are being changed to reflect the hardware changes.

All changes were tested and proper functionality verified at the bench which show no impact in the device's performance.

Prior revision will no longer be available once the supply is exhausted.

**RELIABILITY/QUALIFICATION SUMMARY:**

There is no change in die technology/process/datasheet.

**CUSTOMER ACKNOWLEDGMENT OF RECEIPT:**

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.  
 IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: \_\_\_\_\_

***Approval for shipments prior to effective date.***

Name/Date: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_

Phone # /Fax #: \_\_\_\_\_

**CUSTOMER COMMENTS:** \_\_\_\_\_

**IDT ACKNOWLEDGMENT OF RECEIPT:**

RECD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_