Final Product Change Notification | 201408004F01

Issue Date: 28-Sep-2014
Effective Date: 07-Jan-2015

Here's your personalized quality information concerning products Digi-Key purchased from NXP. For detailed information we invite you to view this notification online

Management Summary

Microcontroller products LPX18xx and LPC43xx will be sourced from the new product version Rev. "A". Currently released version is Rev. "-".

Change Category

[ ] Wafer Fab process	[ ] Assembly Process	[X] Product Marking	[X] Design
[ ] Wafer Fab materials	[ ] Assembly Materials	[X] Electrical spec./Test coverage	[ ] Mechanical Specification
[ ] Wafer Fab location	[ ] Assembly Location	[ ] Test Location	[ ] Packing/Shipping/Labeling

LPX18XX and LPC43XX change from Rev. "-" to Rev. "A"

Details of this Change

Microcontroller products LPX18xx and LPC43xx will be sourced from the new product version Rev. "A". Currently released version is Rev. "-".

- No wafer fab location or process changes.

- These changes fix known functional deviations as documented in Chapter 2 "Errata overview" in the following errata sheets :
- ES_LPC185x/3x/2x/1x Flash Rev. 5
- ES_LPC435x/3x/2x/1x Flash Rev. 5.

- IRC real time clock frequency variation over temperature for rev "-" and rev "A" was 1% is now:
->1.5 % for Tamb = 0 °C to 85 °C and
->3% accuracy for Tamb = -40 °C to 0 °C and Tamb = 85 °C to 105 °C

- Minimum Operating Voltage, Vdd, for rev "-" and rev "A" changed from 2.2V to 2.4V.

Data sheet revision 4.1 will reflect changes in minimum operating voltage and IRC for rev "-" and rev "A". The new product revision "A" is expected to be electrically identical.

Why do we Implement this Change

- To fix known functional deviations as documented in the errata sheets :

- To change tolerance on IRC frequency to reflect actual process capability:
- To ensure the minimum operating voltage is above the BOD brown out detect level 3 threshold voltage.

Identification of Affected Products

Top side marking

Product Availability

Sample Information

Samples are available upon request

Production

Planned first shipment 01-Jan-2015

Impact

Although the new product revision is expected to be electrically identical it is recommended that customers fully characterize the change in their applications.

Data Sheet Revision

A new datasheet will be issued

Disposition of Old Products

Existing inventory will be shipped until depleted

Timing and Logistics

Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 28-Oct-2014.

Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

Name Tim Camenzind
Position Senior Quality Engineer
e-mail address tim.camenzind@nxp.com

At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.
Customer Focus, Passion to Win.

NXP Quality Management Team.

About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ: NXPI) provides High Performance Mixed Signal and Standard Product solutions that leverage its leading RF, Analog, Power Management, Interface, Security and Digital Processing expertise. These innovations are used in a wide range of automotive, identification, wireless infrastructure, lighting, industrial, mobile, consumer and computing applications.

NXP Semiconductors
High Tech Campus, 5656 AG Eindhoven, The Netherlands