



## Advance Product Change Notification

202208027A : S32G2xx Silicon Revision from 0P77B to 1P77B and Qualification of YoungYiel (YY) Lid Supplier

**Note:** This notice is NXP Company Proprietary.

**Issue Date:** Dec 07, 2022

### Change Category

<input type="checkbox"/> Wafer Fab Process	<input type="checkbox"/> Assembly Process	<input type="checkbox"/> Product Marking	<input type="checkbox"/> Test Process	<input type="checkbox"/> Design
<input type="checkbox"/> Wafer Fab Materials	<input checked="" type="checkbox"/> <b>Assembly Materials</b>	<input type="checkbox"/> Mechanical Specification	<input type="checkbox"/> Test Equipment	<input checked="" type="checkbox"/> <b>Errata</b>
<input type="checkbox"/> Wafer Fab Location	<input type="checkbox"/> Assembly Location	<input type="checkbox"/> Packing/Shipping/Labeling	<input type="checkbox"/> Test Location	<input type="checkbox"/> Electrical spec./Test coverage
<input checked="" type="checkbox"/> <b>Firmware</b>	<input checked="" type="checkbox"/> <b>Other: Reference Manual</b>			

## PCN Overview

### Description

This Advance Product Change Notification announces the planned silicon revision from maskset 0P77B to 1P77B for the devices associated with this notification.

Security issues are addressed in this silicon revision. Please contact NXP PSIRT (psirt@nxp) for details on silicon revision.

In addition, new silicon revision 1P77B devices will include YoungYiel (YY) as an additional lid supplier. There is no impact to the fit, function, reliability, or quality between current lid and YoungYiel (YY), however, there is a slight visual difference.

To support the transition to the new silicon revision (1P77B), a Discontinuance Notification will be issued (planned issuance March 2023) with new replacement part numbers and qualification results. Qualified samples of the new silicon revision 1P77B are expected in March 2023, with volume production ramp expected in September 2023, dates subject to change.

The new silicon revision (1P77B) will require the use of Integrated Software Bundle 2023.03, or future bundles.

Any orders on the existing part numbers with silicon revision 0P77B that will not be fulfilled will need to be transitioned to the equivalent replacement part number using silicon revision 1P77B.

Please see attached for planned replacement part numbers, part marking, and visual comparison between current and new lid.

Corresponding ZVEI Delta Qualification Matrix ID: SEM-DS-02, SEM-DE-04, SEM-PA-16

### Reason

Security issues are addressed in the silicon revision.  
Qualification of YoungYiel (YY) as a lid supplier for supply assurance.

### Identification of Affected Products

Replacement part type created, see Parts Affected list

Please see attached file for replacement part numbers that will be included in the planned Discontinuance Notification.

## Product Availability

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### Sample Information

Samples are available from Mar 31, 2023  
Prototype samples are available upon request.  
Qualified samples are available from March 31, 2023

### Production

Planned first shipment Sep 29, 2023

## Anticipated Impact on Form, Fit, Function, Reliability or Quality

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There is no impact to the fit, function, reliability, or quality between current lid and YoungYiel (YY), however, there is a slight visual difference.

There is no impact to the form, fit, function, reliability, or quality for the planned silicon revision from maskset 0P77B to 1P77B.

### Disposition of Old Products

Existing inventory will be shipped until depleted

## Timing and Logistics

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The Self Qualification Report will be ready on Mar 31, 2023.

The Final PCN is planned to be issued on: Mar 31, 2023.

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Jan 06, 2023.

## Contact and Support

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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:

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NXP Quality Management Team

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# S32G2XX SILICON REVISION FROM 0P77B TO 1P77B AND QUALIFICATION OF YOUNGYIEL (YY) LID SUPPLIER

APCN: 202208027A

Amanda Shearer  
29-NOV-2022



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FOR A SMARTER WORLD

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## NEW ORDERABLE PART NUMBERS

- As described in the Advance Product Change Notification, new orderable part numbers will be available to replace existing orderable part numbers.
- Replacement part numbers are captured below and will be listed as replacement part numbers in the planned Discontinuance Notice.
- Change in the orderable part number (i.e., “K0” will be replaced by “K1”).

Current Part Number	New Replacement Part Number	
S32G274AABK0CUCR	S32G274AABK1VUCR	Note: "C" Temperature (TA) range replaced by "V" Temperature (TA) range
S32G274AABK0CUCT	S32G274AABK1VUCT	Note: "C" Temperature (TA) range replaced by "V" Temperature (TA) range
S32G233AABK0VUCR	S32G233AABK1VUCR	
S32G233AABK0VUCT	S32G233AABK1VUCT	
S32G233ASBK0VUCR	S32G233ASBK1VUCR	
S32G233ASBK0VUCT	S32G233ASBK1VUCT	
S32G234MABK0VUCR	S32G234MABK1VUCR	
S32G234MABK0VUCT	S32G234MABK1VUCT	
S32G234MSBK0VUCR	S32G234MSBK1VUCR	
S32G234MSBK0VUCT	S32G234MSBK1VUCT	
S32G254AABK0VUCR	S32G254AABK1VUCR	
S32G254AABK0VUCT	S32G254AABK1VUCT	
S32G254ASBK0VUCR	S32G254ASBK1VUCR	
S32G254ASBK0VUCT	S32G254ASBK1VUCT	
S32G274AABK0VUCR	S32G274AABK1VUCR	
S32G274AABK0VUCT	S32G274AABK1VUCT	
S32G274ASBK0VUCR	S32G274ASBK1VUCR	
S32G274ASBK0VUCT	S32G274ASBK1VUCT	





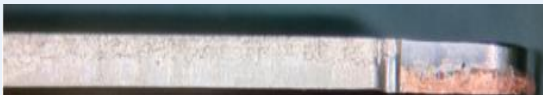
# REPRESENTATIVE PART MARKING

Mask set revision is included on part marking “MMMMM”

- Current Mask set revision: 0N77P
- New Mask set revision: 1N77P

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! *                !  
!                  !  
!                  !  
!          (N)      !  
! S32G274AABVUC !  
!          MMMMM    !  
!          AWLYYWWZ !  
!                  !  
!                  !  
! _____ !
```

# LID VISUAL COMPARISON

	Current	New: YoungYiel (YY)	
Top			<ul style="list-style-type: none"> <li>• Identical size and shape</li> <li>• YY lid slightly more polished</li> </ul>
Bottom			<ul style="list-style-type: none"> <li>• Identical size and shape</li> <li>• YY lid slightly more polished</li> </ul>
Side			<ul style="list-style-type: none"> <li>• Identical width</li> <li>• YY lid slightly more polished</li> </ul>
Side			<ul style="list-style-type: none"> <li>• YY lid shows tooling mark</li> </ul>





# SECURE CONNECTIONS FOR A SMARTER WORLD

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