



Advance Product Change Notification

201610016A

Issue Date: 05-Dec-2016

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QUALITY

Management Summary

Introduction of Quad Source for products TJA1021, TJA1027, TJA1028, TJA1029, TJA1042, TJA1044, TJA1049, TJA1051, TJA1055 and TJA1057.

Change Category

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

Introduction of Quad Source

Details of this Planned Change

As part of the NXP Business Continuity Management (BCM) program NXP's Product Line In-Vehicle Networking (PL IVN) introduces a quad-sourcing strategy, extending its dual source front-end waferfab diffusion with dual-sourced back-end assembly, final test and packing/shipping/labeling. This continues NXP's Global Business Continuity Management process to establish an industrial base that is agile, robust and can reliably service the long term forecasted market growth of IVN products. The products that will be quad-sourced are:

- LIN transceivers TJA1021, TJA1027, TJA1028 and TJA1029
- HS CAN transceivers TJA1042, TJA1044, TJA1049, TJA1051 and TJA1057
- Fault-tolerant CAN transceiver TJA1055

To this end, assembly, final test and packing/shipping/labelling of these products will start in a 2nd location ASEN, Suzhou, China, in parallel to the running production in site ATBK, Bangkok, Thailand.

Quad source means that a product can be:

- diffused in either waferfab ICN8, Nijmegen, the Netherlands or SSMC, Singapore
- assembled, final tested and packed/shipped/labeled in either assembly site ATBK, Bangkok, Thailand, or ASEN, Suzhou, China

The actual sourcing is at NXP's discretion.

This change does not affect the currently released NXP 12NC product part numbers. For each of the mentioned products a new 12NC will be created to make use of the Quad Source.

In the attachment to this Advance Product Change Notification (A-PCN) details of the changes involved are given, as well as the AEC-Q100 compliant qualification plan for them.

Note that this A-PCN is a pre-information only. For each of the affected products a final PCN, with a reliability report and instructions how to obtain samples attached, will be sent to customer. In the attachment to this A-PCN a timing for the final PCN's for all involved products is given.

Why do we Plan this Change

NXP has the responsibility to have appropriate processes and procedures in place to ensure the ability to continue business operations in the event of an interruption affecting all or part(s) of the NXP organization. NXP has a Business Continuity Management (BCM) program in place since 2010. The BCM program includes 3 elements:

- 1. Risk Management per site
- 2. Contingency on Product level
- 3. Supplier Risk management.

This PCN refers to the 2nd element "Contingency on product level" which includes also the Quad Source option.

The second reason for creating a Quad Source is to establish an industrial base able to support the ever-increasing demand for NXP A-BCD3 products, driven by longer term growth in the In-Vehicle Networking market. It has been decided to establish a Quad Source for products TJA1021, TJA1027, TJA1028, TJA1029, TJA1042, TJA1044, TJA1049, TJA1051, TJA1055 and TJA1057. This means that these products, which are currently assembled, final tested and packed/shipped/labeled in ATBK, Bangkok, Thailand, will also be assembled, final tested and packed/shipped/labeled in ASEN, Suzhou, China, in parallel to ATBK.

Identification of Affected Products

Top side marking

In the attachment to this A-PCN it is shown how the product name and the marking changes.

Product Availability

Sample Information

Sample planning follows with the final PCN 31-Jan-2017

For each of the affected products a final PCN, with instructions how to obtain samples, will be sent to customer. In the attachment to this A-PCN a timing for the final PCN's for all products is given

Production

Shipment dates are product specific, see attached plan

Impact

There will be no impact to the product's functionality.

Data Sheet Revision

No impact to existing datasheet

Disposition of Old Products

The current products are not affected by this change. We will merely add a back-end assembly, final test and packing/shipping/labeling Dual Source, creating a true Quad Source under new NXP 12NC product part numbers.

Related Notifications

Notification	Issue Date	Effective Date	Title
201611002I	05-Dec-2016	13-Feb-2017	TJA1021 minor layout modification

Timing and Logistics

The Self Qualification Report will be ready on 31-Jan-2017.

The Final PCN is planned to be issued on: 31-Jan-2017.
Your acknowledgement of this change, conform JEDEC JESD46 D, is expected till 04-Jan-2017.
The mentioned planned dates for the Self Qualification Report (SQR) and Final PCN refer to TJA1028.
Please see the attachment for the timing of the other involved products.

Remarks

Please use the link 'view online' under the heading 'Additional information' above, to log in to the NXP e-PCN system you're subscribed to, in order to obtain the attached document with relevant detailed information from the tab 'Files'.

Should you not be able to obtain this document, please contact your NXP sales representative or the e-mail address mentioned below under 'Contact and Support'.

In the NXP e-PCN system on the tab 'Products' you can see a list of your affected part numbers. Note that at this point in time you cannot order yet the new NXP parts. Once the final PCN's with qualification results are submitted to customer the new orderable NXP 12NC part numbers will be provided.

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

Position

e-mail address

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.

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Affected Part Number

TJA1021T/10/CM,118	TJA1049T,118
TJA1051TK/3,118	TJA1021T/10/C,118
TJA1042T/3/1J	TJA1021T/10/C,118
TJA1044GTJ	TJA1044T,118
TJA1051TK/3/1J	TJA1021T/10/CM,118
TJA1042T/CM,118	TJA1055T/1J
TJA1055T/CM,118	TJA1042T/3/1J
TJA1042T/1J	TJA1044GTJ
TJA1027T/20,118	TJA1055T/3/C,518
TJA1028T/5V0/10,11	TJA1055T/C,518
TJA1028T/5V0/20:11	TJA1021TK/10/C,118
TJA1021T/20/CM,118	TJA1051TK/3/1J
TJA1051T/CM,118	TJA1042T,118
TJA1051T/3/CM,118	TJA1021TK/20/C,118
TJA1044T,118	TJA1042TK/3,118
TJA1057GTJ	TJA1042T/CM,118
TJA1028TK/3V3/20:1	TJA1055T/CM,118
TJA1051T/3,118	TJA1042T/1J
TJA1055T/3/C,518	TJA1051T,118
TJA1055T/C,518	TJA1027T/20,118
TJA1042TK/3,118	TJA1028T/5V0/10,11
TJA1051TK/3,118	TJA1028T/5V0/20:11
TJA1051T/E,118	TJA1021T/20/CM,118
TJA1021TK/20/C,118	TJA1051T/CM,118
TJA1021TK/10/C,118	TJA1049T,118
TJA1021T/20/C,118	TJA1021T/20/C,118
TJA1051T,118	TJA1051T/3,118
TJA1042T/3,118	TJA1051T/E,118
TJA1042T,118	TJA1042T/3,118
	TJA1051T/3/CM,118
	TJA1055T/1J