



Final Product Change Notification **Update**

202309003F01U01 : Introduction of Optical Shrink Quad Source Versions of SO-package
TJA1021 Product

Note: This notice is NXP Company Proprietary.

Issue Date: Feb 21, 2024 **Effective date:** May 21, 2024

Here is your personalized notification about a NXP general announcement.
For detailed information we invite you to view this notification online

Management summary

NXP Product Line In-Vehicle Networking (PL IVN) is introducing optical shrink Quad Source versions of SO-package product TJA1021.

Change Category

☐ Wafer Fab Process	☐ Assembly Process	☐ Product Marking	☐ Test Process	☐ Design
☐ Wafer Fab Materials	☒ Assembly Materials	☐ Mechanical Specification	☐ Test Equipment	☐ Errata
☒ Wafer Fab Location	☒ Assembly Location	☐ Packing/Shipping/Labeling	☒ Test Location	☐ Electrical spec./Test coverage
☐ Firmware ☒ Other: Optical shrink				

PCN Overview

Description

For the PL IVN SO-package LIN product TJA1021, optical shrink Quad Source product versions will be introduced. The Bill-of-Material (BoM) of those new shrink product versions will be using copper (Cu) bondwire, with the associated mold compound and die attach. The new product versions are introduced as Quad Source, i.e. using two front-end diffusion waferfabs and two back-end assembly and final test sites.

This change does not affect the currently released NXP 12NC product part numbers for TJA1021. New 12NCs have been created to make use of the optical shrink Quad Source.

In the attachment to this Product Change Notification (PCN) details of the changes involved are given, as well as three additional documents:

- The AEC-Q100 qualification results for the release
- The applicable ZVEI Delta Qualification Matrix (DeQuMa), both in zipped excel and pdf format

See the paragraphs 'Additional information' and 'Remarks' below for instructions on how to obtain these documents. Attached to this e-mail is an excel file with two sheets. One contains the sale history for your affected part numbers, the other the product change list. In both sheets reference is

made to new part number, orderable part number and NXP 12NC code. In case you want to make use of the optical shrink Quad Source you need to order this new part number.

Reason

These changes will help to continue 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.

Identification of Affected Products

Top Side Marking

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

Product Availability

Sample Information

Samples are available upon request

Production

Planned first shipment May 21, 2024

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

No impact on specification, form, fit, function(ality), performance, reliability or quality

Data Sheet Revision

No impact to existing datasheet

Disposition of Old Products

Existing inventory will be shipped until depleted

Additional information

Self qualification: view online

Additional documents: view online

Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by Mar 22, 2024.

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 documents with relevant detailed information from the tab 'Files'.

Should you not be able to obtain these documents, 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.

Update Information

The following updates have been made to documents attached to this PCN (see instructions below under heading 'Remarks' on how to obtain these documents) :

- Improved PCN attachment, with more (clear) description of changes
- Typos corrected in reliability qualification report
- Updated ZVEI Delta Qualification Matrix (DeQuMa)

This is purely a documentation update/improvement, there's no further change to the product.

Related Notification

Notification	Issue Date	Effective Date	Title
202302005I	Feb 17, 2023	Mar 17, 2023	TJA1021 Datasheet Update
202309003A	Nov 02, 2023		Introduction of Multi-Source Optical Shrink Versions of Various CAN/LIN Products

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:

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Orderable Part Number#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	New Orderable Part#	12NC New	Product Type New	Product Description New	Product Line
TJA1021T/10/C,118	935285393118	TJA1021T/10/C	LIN TRANSCEIVERS	S08	SOT96-1	RFS	No	TJA1021AT/02	935424042431	TJA1021AT/0	LIN TRANSCEIVERS	BLC1
TJA1021T/10/CM,118	935296782118	TJA1021T/10/CM	LIN TRANSCEIVERS	S08	SOT96-1	RFS	No	TJA1021AT/02	935424042431	TJA1021AT/0	LIN TRANSCEIVERS	BLC1
TJA1021T/20/C,118	935285394118	TJA1021T/20/C	LIN TRANSCEIVERS	S08	SOT96-1	RFS	No	TJA1021BT/02	935424049431	TJA1021BT/0	LIN TRANSCEIVERS	BLC1
TJA1021T/20/CM,118	935296781118	TJA1021T/20/CM	LIN TRANSCEIVERS	S08	SOT96-1	RFS	No	TJA1021BT/02	935424049431	TJA1021BT/0	LIN TRANSCEIVERS	BLC1