



Final Product Change Notification

202002034F01

Issue Date: 08-Nov-2020

Effective Date: 06-Feb-2021

Dear *Emma Tempest*,

Here's your personalized quality information concerning products Premier Farnell PLC purchased from NXP.

For detailed information we invite you to [view this notification online](#)

This notice is NXP Company Proprietary.



QUALITY

Management Summary

Transition from SO Package Single Source product TJA1145T(/FD) to Successor CAN FD Drop-in Replacement Dual Source Product TJA1145AT(/FD).

Change Category

| | | | | |
|--|---|--|---|--|
| <input type="checkbox"/> Wafer Fab Process | <input type="checkbox"/> Assembly Process | <input type="checkbox"/> Product Marking | <input type="checkbox"/> Test Location | <input checked="" 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 checked="" type="checkbox"/> Wafer Fab Location | <input type="checkbox"/> Assembly Location | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Equipment | <input checked="" type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input type="checkbox"/> Other | | | |

Transition from SO Package Single Source TJA1145T(/FD) to Successor CAN FD Drop-in Replacement Dual Source TJA1145AT(/FD)

Description of Change

NXP Product Line In Vehicle Networking (PL IVN) informed you in December 2019 via Customer Information Notification (CIN) 201909013I of four design-related issues affecting product TJA1145. These could potentially affect your application using product TJA1145, and may cause failures or customer returns.

This Product Change Notification (PCN) announces the transition from SO package product TJA1145T(/FD) to its drop-in replacement product TJA1145AT(/FD). Apart from the design changes needed to fulfill the additional CAN FD requirements and to fix the before-mentioned issues, product TJA1145AT(/FD) will be dual source. To this end, diffusion of this product TJA1145AT(/FD) will start in a 2nd location wafer fab Vanguard International Semiconductors (VIS), in parallel to the currently released wafer fab SSMC, Singapore. The actual sourcing of TJA1145AT(/FD) is at NXP's discretion. Note that the PCN 202001016F01 for the transition of the leadless HVSON package product TJA1145TK(/FD) to TJA11456ATK(/FD) was already sent in February of this year.

For the new TJA1145AT(/FD) the following holds:

- Form: No change, TJA1145AT(/FD) is a drop-in replacement for TJA1145T(/FD)
- Fit: No change, TJA1145AT(/FD) is a drop-in replacement for TJA1145T(/FD)

- Function: Improved through fulfillment of additional datasheet CAN FD specifications
- Performance: Improved EMC
- Reliability: No change, product TJA1145AT(/FD) is fully AEC-Q100 qualified and released
- Quality: Improved through minor design changes to fix before-mentioned four issues

Three months after this PCN a separate formal Discontinuation Notification (DN) for the TJA1145 (both SO and leadless HVSON package product versions) will be sent, with a 1-year Last Time Buy (LTB) period, followed by a 1-year Last Time Shipment (LTS) period. This implies that you are required to act on this PCN, as you no longer can order the current non-A TJA1145 product after this period.

Attached to this PCN are documents that enable you to assess the change (qualification):

- A document with details on the change:
 - Between TJA1145 and TJA1145A datasheets
 - A migration guide, describing the drop-in replacement of TJA1145 with TJA1145A in your application
- A full AEC-Q100 qualification report for product TJA1145A
- The TJA1145A datasheet
- The ZVEI Delta Qualification Matrix (DeQuMa) for this change

A PPAP and samples of product TJA1145AT(/FD) are available on request. This information should enable you to transition to the new TJA1145AT(/FD) product with a minor, if any, delta qualification.

Reason for Change

The successor product TJA1145AT(/FD), fulfilling additional CAN FD specifications as required by certain OEMs, was already planned. This successor product TJA1145AT(/FD) also contains minor design fixes for four issues that could potentially affect your application and may cause failures or customer returns.

The transition from the current product TJA1145T(/FD) to the successor product TJA1145AT(/FD), as announced by this Product Change Notification (PCN), is necessary to eliminate the risk for these failures or customer returns, and meet the OEM-required additional CAN FD specifications.

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 04-Feb-2021

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

See above under heading 'Description of Change'.

Data Sheet Revision

A new datasheet will be issued

Disposition of Old Products

Existing inventory will be shipped until depleted

Related Notifications

| Notification | Issue Date | Effective Date | Title |
|--------------|-------------|----------------|---|
| 201909013I | 06-Dec-2019 | 04-Jan-2020 | Important Information on Products UJA116x, UJA113x and TJA1145 |
| 202001016F01 | 13-Feb-2020 | 13-May-2020 | Transition from Leadless HVSON Package Product TJA1145TK(/FD) to Successor CAN FD Drop-in Replacement Product TJA1145ATK(/FD) |

Additional information

Affected products and sales history information: see attached file

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 08-Dec-2020.

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':

- An attachment with more detailed description of the change
- An AEC-Q100 reliability results report
- The TJA1145A datasheet
- A ZVEI Delta Qualification Matrix (DeQuMa) for the change, both in pdf and zipped excel format

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'.

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 Kees van Hasselt
Position Quality Account Manager
e-mail address ivn.customer.service@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.

You have received this email because you are a designated contact or subscribed to NXP Quality Notifications. NXP shall not be held liable if this Notification is not correctly distributed within your organization.

This message has been automatically distributed. Please do not reply.

[View Notification](#)

[Subscription](#)

[Support](#)

[NXP](#) | [Privacy Policy](#) | [Terms of Use](#)

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

© 2006-2010 NXP Semiconductors. All rights reserved.