



Customer Information Notification

202109014I : TJx144y and TJx146y Product Family Datasheet Update

Note: This notice is NXP Company Proprietary.

Issue Date: Oct 22, 2021 **Effective date:** Oct 23, 2021

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Management summary

The NXP Product Line In- Vehicle Networking (PL IVN) TJx144y and TJx146y Product Family datasheets are updated with improved specifications.

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 type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Equipment | <input type="checkbox"/> Errata |
| <input type="checkbox"/> Wafer Fab Location | <input type="checkbox"/> Assembly Location | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Location | <input checked="" type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input type="checkbox"/> Other | | | |

PCN Overview

Description

The NXP Product Line In- Vehicle Networking (PL IVN) TJx144y and TJx146y Product Family datasheets are updated:

- 8 Mbit/s timing for the AEC-Q100 grade 1 TJA1462 and TJA1463 products
- Improved delay timing for the AEC-Q100 grade 1 TJA144y products
- For TJx1443 and TJx1463:
 - Improved limiting value for the VBAT pin
 - Additional specification of transient voltage on VBAT and WAKE pin
 - Minor state diagram correction

No physical or design change has been made to the products, the improved/expanded specifications are achieved through tightened test limits.

Attached to this Customer Information Notification (CIN) are additional documents:

- A pdf document with detailed info on the datasheet updates
- The applicable ZVEI Delta Qualification Matrix (DeQuMa) for these datasheet updates, both in zipped excel and pdf format
- The new datasheets for the TJx144y and TJx146y products, which will also be published on the NXP website (www.nxp.com) one month after the distribution of this CIN to customers

See the paragraphs 'Additional information' and 'Remarks' below for instructions on how to obtain these documents.

On request a PPAP with the new datasheet and updated Electrical Distribution (ED) report is available for each of the products. The single exception is the non-automotive/industrial product TJF1441, for which no PPAP is available.

Reason

NXP PL IVN wants to properly inform you of the improved datasheet specifications for the TJx144y and TJx146y product family datasheets.

Identification of Affected Products

Product identification does not change

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

There is no impact on form, fit, function, reliability or quality, other than the intended improved datasheet specifications through tightened test limits.

Data Sheet Revision

A new datasheet will be issued

Disposition of Old Products

Existing inventory will be shipped until depleted

Additional information

Additional documents: [view online](#)

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'.

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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| Changed Orderable Part# | 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 | Notes |
|-------------------------|--------------|--------------|---------------------|-----------------|---------------------|----------------|-----------------------------|---------------------|----------|------------------|-------------------------|--------------|-------|
| TJA1441AT/OZ | 935384785431 | TJA1441AT/0 | TJA1441AT/OZ | SO8 | SOT96-1 | RFS | No | | | | | BLC1 | |
| TJA1441ATK/OZ | 935389367431 | TJA1441ATK/0 | TJA1441ATK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | BLC1 | |
| TJA1441BT/OZ | 935390007431 | TJA1441BT/0 | TJA1441BT/OZ | SO8 | SOT96-1 | RFS | No | | | | | BLC1 | |
| TJA1441BTK/OZ | 935390232431 | TJA1441BTK/0 | TJA1441BTK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | BLC1 | |
| TJA1441DT/OZ | 935392674431 | TJA1441DT/0 | TJA1441DT/OZ | SO8 | SOT96-1 | RFS | No | | | | | BLC1 | |
| TJA1441DTK/OZ | 935392676431 | TJA1441DTK/0 | TJA1441DTK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | BLC1 | |
| TJA1442AT/OZ | 935389634431 | TJA1442AT/0 | TJA1442AT/OZ | SO8 | SOT96-1 | RFS | No | | | | | BLC1 | |
| TJA1442ATK/OZ | 935389635431 | TJA1442ATK/0 | TJA1442ATK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | BLC1 | |
| TJA1442BT/OZ | 935390233431 | TJA1442BT/0 | TJA1442BT/OZ | SO8 | SOT96-1 | RFS | No | | | | | BLC1 | |
| TJA1442BTK/OZ | 935390241431 | TJA1442BTK/0 | TJA1442BTK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | BLC1 | |
| TJA1443AT/OZ | 935389365431 | TJA1443AT/0 | TJA1443AT/0 | SO14 | SOT108-1 | RFS | No | | | | | BLC1 | |
| TJA1443ATK/OZ | 935389702431 | TJA1443ATK/0 | TJA1443ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | BLC1 | |
| TJA1448AT/OZ | 935389369431 | TJA1448AT/0 | TJA1448AT/0 | SO14 | SOT108-1 | RFS | No | | | | | BLC1 | |
| TJA1448ATK/OZ | 935389633431 | TJA1448ATK/0 | TJA1448ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | BLC1 | |

| | | | | | | | | | | | | | | |
|----------------|--------------|---------------|---------------|-------------|-----------|-----|----|--|--|--|--|--|------|--|
| TJA1448BT/OZ | 935389787431 | TJA1448BT/0 | TJA1448BT/0 | SO14 | SOT108-1 | RFS | No | | | | | | BLC1 | |
| TJA1448BTK/OZ | 935389788431 | TJA1448BTK/0 | TJA1448BTK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJA1448CTK/OZ | 935392675431 | TJA1448CTK/0 | TJA1448CTK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJA1462AT/OZ | 935389366431 | TJA1462AT/0 | TJA1462AT/0 | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJA1462ATK/OZ | 935389632431 | TJA1462ATK/0 | TJA1462ATK/0 | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJA1462ATK/S1Z | 935411822431 | TJA1462ATK/S1 | TJA1462ATK/0 | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJA1462ATK/S2Z | 935411823431 | TJA1462ATK/S2 | TJA1462ATK/0 | H(V)SON8WF | SOT782-1 | ASM | No | | | | | | BLC1 | |
| TJA1462BT/OZ | 935389727431 | TJA1462BT/0 | TJA1462BT/0 | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJA1462BTK/OZ | 935389728431 | TJA1462BTK/0 | TJA1462BTK/0 | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJA1462BTK/S1Z | 935411824431 | TJA1462BTK/S1 | TJA1462BTK/0 | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJA1462BTK/S2Z | 935411825431 | TJA1462BTK/S2 | TJA1462BTK/0 | H(V)SON8WF | SOT782-1 | ASM | No | | | | | | BLC1 | |
| TJA1463AT/OZ | 935389309431 | TJA1463AT/0 | TJA1463AT/0 | SO14 | SOT108-1 | RFS | No | | | | | | BLC1 | |
| TJA1463ATK/OZ | 935389371431 | TJA1463ATK/0 | TJA1463ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJA1463ATK/S1Z | 935411846431 | TJA1463ATK/S1 | TJA1463ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJA1463ATK/S2Z | 935411847431 | TJA1463ATK/S2 | TJA1463ATK/0 | H(V)SON14WF | SOT1086-2 | ASM | No | | | | | | BLC1 | |
| TJF1441AT/OZ | 935392713431 | TJF1441AT/0 | TJF1441AT/OZ | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1441AT/OZ | 935389368431 | TJR1441AT/0 | TJR1441AT/OZ | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1441ATK/OZ | 935391908431 | TJR1441ATK/0 | TJR1441ATK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1441BT/OZ | 935391889431 | TJR1441BT/0 | TJR1441BT/OZ | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1441BTK/OZ | 935391894431 | TJR1441BTK/0 | TJR1441BTK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1441DT/OZ | 935391893431 | TJR1441DT/0 | TJR1441DT/OZ | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1441DTK/OZ | 935391895431 | TJR1441DTK/0 | TJR1441DTK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1442AT/OZ | 935391898431 | TJR1442AT/0 | TJR1442AT/OZ | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1442ATK/OZ | 935391902431 | TJR1442ATK/0 | TJR1442ATK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1442BT/OZ | 935391901431 | TJR1442BT/0 | TJR1442BT/OZ | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1442BTK/OZ | 935391859431 | TJR1442BTK/0 | TJR1442BTK/OZ | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1443AT/OZ | 935391667431 | TJR1443AT/0 | TJR1443AT/0 | SO14 | SOT108-1 | RFS | No | | | | | | BLC1 | |
| TJR1443ATK/OZ | 935391896431 | TJR1443ATK/0 | TJR1443ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJR1443ATK/S1Z | 935411812431 | TJR1443ATK/S1 | TJR1443ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJR1448AT/OZ | 935391669431 | TJR1448AT/0 | TJR1448AT/0 | SO14 | SOT108-1 | RFS | No | | | | | | BLC1 | |
| TJR1448ATK/OZ | 935391899431 | TJR1448ATK/0 | TJR1448ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJR1448BT/OZ | 935391861431 | TJR1448BT/0 | TJR1448BT/0 | SO14 | SOT108-1 | RFS | No | | | | | | BLC1 | |
| TJR1448BTK/OZ | 935391897431 | TJR1448BTK/0 | TJR1448BTK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJR1448CTK/OZ | 935391862431 | TJR1448CTK/0 | TJR1448CTK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |
| TJR1462AT/OZ | 935391945431 | TJR1462AT/0 | TJR1462AT/0 | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1462ATK/OZ | 935391942431 | TJR1462ATK/0 | TJR1462ATK/0 | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1462BT/OZ | 935391944431 | TJR1462BT/0 | TJR1462BT/0 | SO8 | SOT96-1 | RFS | No | | | | | | BLC1 | |
| TJR1462BTK/OZ | 935391946431 | TJR1462BTK/0 | TJR1462BTK/0 | H(V)SON8WF | SOT782-1 | RFS | No | | | | | | BLC1 | |
| TJR1463AT/OZ | 935391947431 | TJR1463AT/0 | TJR1463AT/0 | SO14 | SOT108-1 | RFS | No | | | | | | BLC1 | |
| TJR1463ATK/OZ | 935391948431 | TJR1463ATK/0 | TJR1463ATK/0 | H(V)SON14WF | SOT1086-2 | RFS | No | | | | | | BLC1 | |