



## Customer Information Notification

202106005I : JN5188(T)/JN5189(T); QN9030/9090(T); K32W041/061; K32W0421A/AM Datasheet and UserManual Update

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

**Issue Date:** Jun 25, 2021 **Effective date:** Jun 26, 2021

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

### 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: Data Sheet update, User Manual update

## PCN Overview

### Description

NXP announces a datasheet update for the following devices

- JN5188 (T), JN5189(T) to Rev. 1.3
- QN9030(T), QN9090(T) to Rev. 1.2
- K32W041/061 to Rev. 1.3
- K32W041A/AM to Rev. 1.1

The user manuals were updated, too:

- User manual JN5188 (T), JN5189(T) to Rev. 1.5
- User manual QN9030(T), QN9090(T) to Rev. 1.2
- User manual K32W041/061 to Rev. 1.2
- User manual K32W041A/AM to Rev. 1.1

The revision history included in the updated documents provides the link to the changes. Changes are summarized below:

Data Sheet modification:

- Updated Figure 4 “System memory map” for the QSPI.
- Updated BOD as wake-up source to exit Deep sleep and Power-down in Table 8 “Power mode wake-up sources”
- Added ts in the Table 11 “Limiting values”, added Figure 11 “Power-up ramp”, Figure 12 “Minimum VBAT rise time vs temperature”, Figure 13 “Maximum VBAT slope vs temperature”.

- Updated to “8-input 12-bit ADC, 190 ksamples/s (Max.)” in the Section 2.3 “Microcontroller features”.
- Updated to “Conversion rate 190 ksamples/s (Max.) for 12-bit resolution” in the Section 8.15 “12-bit general purpose ADC”.

User Manual modification:

- Updated Table 4 “Pin properties”
- Updated Figure 2 “Main memory map” for the QSPI.
- Updated Table 64 “Available pins and configuration registers”.
- Updated to “12-bit conversion rate of 190 ksamples/s (Max.)” in the Section 27.2 “Features”.

The data sheet revisions as well as the User Manual revisions are attached to this notice, and can be found at [www.nxp.com](http://www.nxp.com):

<https://www.nxp.com/docs/en/nxp/data-sheets/JN5189.pdf>

[https://www.nxp.com/docs/en/nxp/data-sheets/QN9090\(T\)QN9030\(T\).pdf](https://www.nxp.com/docs/en/nxp/data-sheets/QN9090(T)QN9030(T).pdf)

<https://www.nxp.com/docs/en/data-sheet/K32W061.pdf>

<https://www.nxp.com/docs/en/data-sheet/K32W041AM.pdf>

<https://www.nxp.com/docs/en/nxp/user-guides/UM11138.pdf>

<https://www.nxp.com/docs/en/user-guide/UM11141.pdf>

<https://www.nxp.com/docs/en/user-guide/UM11323.pdf>

<https://www.nxp.com/docs/en/reference-manual/UM11485.pdf>

#### **Reason**

- 1) Growing insight after additional measurements at cold temperatures.
- 2) Customer request to connect a 8M flash device to the QSPI.
- 3) Alignment data sheet and user manual.

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

---

No Impact on form, fit, function, reliability or quality

#### **Data Sheet Revision**

A new datasheet will be issued

### **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** Forrest Sun  
**Position** Application Engineer  
**e-mail address** forrest.sun@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 .

---

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

© 2006- 2021 NXP Semiconductors. All rights reserved.

Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product Status	Customer Specific Indicator	Product Line
JN5189HN/001Z	935350734515	JN5189HN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5189HN/001Y	935350734518	JN5189HN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5189HN/001K	935350734557	JN5189HN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5189THN/001Z	935350735515	JN5189THN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5189THN/001Y	935350735518	JN5189THN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5189THN/001K	935350735557	JN5189THN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9030HN/001Z	935383082515	QN9030HN/001	QN9030 BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9030HN/001Y	935383082518	QN9030HN/001	QN9030 BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9030HN/001K	935383082557	QN9030HN/001	QN9030 BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9030THN/001Z	935383083515	QN9030THN/001	QN9030T BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9030THN/001Y	935383083518	QN9030THN/001	QN9030T BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9030THN/001K	935383083557	QN9030THN/001	QN9030T BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9090HN/001Z	935381741515	QN9090HN/001	QN9090 BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9090HN/001Y	935381741518	QN9090HN/001	QN9090 BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9090HN/001K	935381741557	QN9090HN/001	QN9090 BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9090THN/001Z	935383081515	QN9090THN/001	QN9090T BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9090THN/001Y	935383081518	QN9090THN/001	QN9090T BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
QN9090THN/001K	935383081557	QN9090THN/001	QN9090T BLE SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041Z	935385243515	K32W041	K32W041 BLE/Zigbee SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041Y	935385243518	K32W041	K32W041 BLE/Zigbee SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041K	935385243557	K32W041	K32W041 BLE/Zigbee SoC	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W061Z	935385244515	K32W061	K32W061 BLE/Zigbee SoC with NTAG	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W061Y	935385244518	K32W061	K32W061 BLE/Zigbee SoC with NTAG	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W061K	935385244557	K32W061	K32W061 BLE/Zigbee SoC with NTAG	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5188HN/001Z	935350732515	JN5188HN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5188HN/001Y	935350732518	JN5188HN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5188HN/001K	935350732557	JN5188HN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5188THN/001Z	935350733515	JN5188THN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5188THN/001Y	935350733518	JN5188THN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
JN5188THN/001K	935350733557	JN5188THN/001	Wireless Microcontroller	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041AZ	935414892515	K32W041A	K32W041 +15dBm	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041AY	935414892518	K32W041A	K32W041 +15dBm	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041AK	935414892557	K32W041A	K32W041 +15dBm	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041AMZ	935414893515	K32W041AM	K32W041 MCM	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041AMY	935414893518	K32W041AM	K32W041 MCM	H(V)QFN40	SOT618-1	RFS	No	BLM1
K32W041AMK	935414893557	K32W041AM	K32W041 MCM	H(V)QFN40	SOT618-1	RFS	No	BLM1