Final Product Change Notification

202203001F01 : New Firmware Library Release for NTM88 Product Family - RFP 2.1

Note: This notice is NXP Company Proprietary.

Issue Date: Mar 19, 2022 **Effective date:Jun 17, 2022**

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

Management summary

NXP announces the release of a new firmware library which includes a new routine that manages the RF pre-charge function. The new release is RFP 2.1.

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
[X]Firmware	[ ]Other			

PCN Overview

Description

NXP Semiconductor announces the release of a new firmware library (RFP 2.1) which includes a new routine that manages the RF pre-charge function.

Reason

A new NXP firmware library has been released which includes a new routine that manages the RF pre-charge function. In applications that enable the RF pre-charge function, some devices will not pre-charge, thereby aborting RF-based functions. The problem is caused by insufficient design margin and worsens at cold temperatures and low battery voltage. The new firmware routine manages the pre-charge function by temporarily re-configuring internal circuits and retrying until successful, or if unsuccessful in a prescribed time will return an error status to the customer application software. Customer software applications that utilize the RF block for its crystal-based 500kHz clock reference have to call the new pre-charge routine as well. Please refer to NTM88 family User Manual UM11227 and NTM88 Firmware Library User Guide UM11145 for additional details. Both are available under the Documentation section at https://www.nxp.com/products/sensors/pressure-sensors/tire-pressure-monitoring-sensors/ntm88-highly-integrated-tire-pressure-sensor:NTM88.

Identification of Affected Products

Firmware library is posted to the internet and is not loaded into the parts by NXP.

Product Availability

Sample Information
Not Applicable
Production
Planned first shipment Mar 17, 2022

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

No Impact on form, fit, function, reliability or quality
No hardware changes. Firmware changes only.
Data Sheet Revision
No impact to existing datasheet
Disposition of Old Products
Product shipped after 17 Jun 2022 will require the new firmware library if the RF pre-charge function is used.

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 Apr 18, 2022.

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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NXP Quality Management Team.
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Changed Orderable Part#	12NC	Product Type	Product Description	Package Outline	Package Description	Product S	Customer	Product Line
NTM88H055T1	935396482528	NTM88H055T1	TPMS 4X4 900kPa X axis	HQFN24FAMWF	SOT1931-1(D)	RFS	No	BLC6
NTM88H065T1	935396483528	NTM88H065T1	TPMS 4X4 900kPa X axis	HQFN24FAMWF	SOT1931-1(D)	RFS	No	BLC6
NTM88H079T1	935398697528	NTM88H079T1	TPMS 4X4 900kPa X axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H129T1	935398698528	NTM88H129T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H135T1	935400231528	NTM88H135T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	RFS	No	BLC6
NTM88H138T1	935400232528	NTM88H138T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	RFS	No	BLC6
NTM88H145T1	935400233528	NTM88H145T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H058T1	935402344528	NTM88H058T1	TPMS 4X4 900kPa X axis	HQFN24FAMWF	SOT1931-1(D)	RFS	No	BLC6
NTM88H155T1	935404318528	NTM88H155T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	RFS	No	BLC6
NTM88H075T1	935407575528	NTM88H075T1	TPMS 4X4 900kPa X axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H125T1	935407576528	NTM88H125T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H127T1	935417611528	NTM88H127T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88J127T1	935417612528	NTM88J127T1	TPMS 4X4 900kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H077T1	935420512528	NTM88H077T1	TPMS 4X4 900kPa X axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88J135T1	935420513528	NTM88J135T1	TPMS 4X4 1100kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88J145T1	935420514528	NTM88J145T1	TPMS 4X4 1100kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88J155T1	935420515528	NTM88J155T1	TPMS 4X4 1100kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88J125T1	935420523528	NTM88J125T1	TPMS 4X4 1100kPa XZ axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H025T1	935433337528	NTM88H025T1	TPMS 4X4 900kPa Z axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6
NTM88H028T1	935433338528	NTM88H028T1	TPMS 4X4 900kPa Z axis	HQFN24FAMWF	SOT1931-1(D)	ASM	No	BLC6