



Customer Information Notification

202112019I : NTM88xxxx Product Family Pre-Charge Function

Note: This notice is NXP Company Proprietary.

Issue Date: Dec 16, 2021 **Effective date:** Dec 17, 2021

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Management summary

For the NTM88xxxx product family, communication of a gap in test coverage, where the RF transmitter Pre-charge function may not operate as expected.

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

For the NTM88xxxx product family, a use-case condition has exposed a gap in test coverage, where the RF transmitter Pre-charge function may not operate as expected.

Reason

For the NTM88xxxx product family, the User Manual UM11227 section 10.16.11.12 describes the Pre-charging of the RF voltage regulator external stability capacitor, which is connected on customer circuit boards at the sensor pin 12 labelled "VREG". When the Pre-charge function is enabled, the external VREG capacitor is charged just prior to each scheduled RF transmission. However, sensors shipped prior to 10 December 2021 received an inadequate test of the Pre-charge function, such that the external capacitor may not be Pre-charged as expected. As a result, some sensors may not trigger the RF transmission if the Pre-charge is enabled, or the temperature-based adjustments to Periodic Wake-up, Medium Frequency Oscillator, and/or Free Running counts may not be executed.

Identification of Affected Products

Product identification does not change

Some NTM88xxxx product shipped prior to 10 December 2021.

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

Some NTM88xxxx product, shipped prior to 10 December 2021, may not trigger the RF transmission if the Pre-charge is enabled, or the temperature-based adjustments to Periodic Wake-up, Medium Frequency Oscillator, and/or Free Running counts may not be executed.

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.

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NXP Quality Management Team.

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Changed Orderable Part# 12NC

NTM88H055T1	935396482528
NTM88H065T1	935396483528
NTM88H135T1	935400231528
NTM88H145T1	935400233528
NTM88H155T1	935404318528
NTM88H075T1	935407575528
NTM88H125T1	935407576528
NTM88H127T1	935417611528
NTM88J127T1	935417612528
NTM88H077T1	935420512528
NTM88J135T1	935420513528
NTM88H025T1	935433337528