NXP

Customer Information Notification	202002027l

Issue Date: 14-Mar-2020
Effective Date: 15-Mar-2020

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QUALITY

Change Category

[ ] Wafer Fab Process	[ ] Assembly Process	[ ] Product Marking	[ ] Test Location	[ ] Design
[ ] Wafer Fab Materials	[ ] Assembly Materials	[ ] Mechanical Specification	[ ]Test Process	[ ] Errata
[ ] Wafer Fab Location	[ ] Assembly Location	[ ] Packing/Shipping/Labeling	[ ] Test Equipment	[ ] Electrical spec./Test coverage

[ ] Firmware   [X] Other - Datasheet correction and update

MPC5746R Data Sheet Updates To Rev.7

Description

NXP Semiconductors announces data sheet update for the MPC5746R from revision 6 to revision 7. The revision history included in the updated document provides a details description of the changes.

Data sheet changes:
1. Page 37: In Table 20, changed the condition of dGROUP from "Within pass band - Tclk is $fADCD\_M / 2$" to "Within pass band - Tclk is $2/fADCD\_M$".
2. Page 39: In the footnote (no.13) of tLATENCY, changed the Register Latency formula from "REGISTER LATENCY= $tLATENCY + 0.5/fADCD\_S + 2 (\sim+1)/fADCD\_M + 2(\sim+1)fPBRIDGEx\_CLK$ where $fADCD\_S$ is the frequency of the sampling clock, $fADCD\_M$ is the frequency of the modulator" to "REGISTER LATENCY = $tLATENCY + 0.5/fADCD\_S + 2 (\sim+1)/fADCD\_M + 2(\sim+1)/fPBRIDGEx\_CLK$ where $fADCD\_S$ is the after-decimation ADC output data rate, $fADCD\_M/2$ is the modulator sampling rate and $fPBRIDGEx\_CLK$ is the frequency of the peripheral bridge clock feeds to the ADC S/D module".

The MPC5746R data sheet revision 7 is attached to this notice and can be found at:
https://www.nxp.com/products/processors-and-microcontrollers/power-architecture/mpc55xx-5xxx-mcus/ultra-reliable-mpc57xx-mcus/automotive-industrial-engine-management-mcu:MPC5746R?tab=Documentation_Tab

Corresponding ZVEI Delta Qualification Matrix ID: SEM-DS-02.
Reason
The data sheet has been updated to correct errors and / or provide additional technical clarification on some device features.
Identification of Affected Products
Product identification does not change

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.

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NXP Quality Management Team.

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Affected Part Numbers

SPC5743RK1MLU5

SPC5746RK1MMT5