



Customer Information Notification

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Issue Date: 20-Oct-2020
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| <input type="checkbox"/> Wafer Fab Process | <input type="checkbox"/> Assembly Process | <input type="checkbox"/> Product Marking | <input type="checkbox"/> Test Location | <input type="checkbox"/> Design |
| <input type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Process | <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 Equipment | <input type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input checked="" type="checkbox"/> Other - Reference Manual & Datasheet | | | |

K32L2B Reference Manual & Datasheet Update To Rev3

Description

NXP Semiconductors announces that the K32L2B Reference Manual has been updated to new revisions: K32L2B3xRM Rev. 3, the K32L2B Datasheet has been updated to new revisions: K32L2B3xDS Rev. 3. The revision history included in the updated document provides a detailed description of the changes:

K32L2B3xRM Rev. 3:

1. Removed "RESET_b" from ALT7 column and "PTA20" from ALT1 column corresponding to PTA20 pin in K32 L2B Signal Multiplexing and Pin Assignments (LQFP and MAPBGA) and K32 L2B Signal Multiplexing and Pin Assignments (QFN).

Also added the following note:

When FTFA_FOFT[RESET_PIN_CONFIG]=0, the PTA20 pin acts as RESET_B function only during the POR. After POR, this pin cannot be used as the RESET function. Then, writing to PORTA_PCR20[MUX]=0x1, the PTA20 pin will act as GPIO function (with setting value of ALT1). When FTFA_FOFT[RESET_PIN_CONFIG]=1, the PTA20 pin acts as RESET_B and cannot switch to GPIO function regardless of PORTA_PCR20[MUX]'s setting value. For more information about FTFA_FOFT[RESET_PIN_CONFIG], refer Table 6-2.

2. Replaced register names, USB_CTL, USB_CTRL, and USB_CONTROL with USBx_CTL, USBx_USBCTRL, and USBx_CONTROL, in Chapter 33, Universal Serial Bus (USB) FS Subsystem - in Introduction section.

K32L2B3xDS Rev. 3:

1. Corrected value of ADC to 461 ksp/s from 818 in front page of the Data sheet.
2. Removed "RESET_b" from ALT7 column and "PTA20" from ALT1 column corresponding to PTA20 pin in K32 L2B Signal Multiplexing and Pin Assignments (LQFP and MAPBGA) and K32 L2B Signal Multiplexing and Pin Assignments (QFN).
Also added the following note:
When FTFA_FOFT[RESET_PIN_CONFIG]=0, the PTA20 pin acts as RESET_B function only during the POR. After POR, this pin cannot be used as the RESET function. Then, writing to PORTA_PCR20[MUX]=0x1, the PTA20 pin will act as GPIO function (with setting value of ALT1). When FTFA_FOFT[RESET_PIN_CONFIG]=1, the PTA20 pin acts as RESET_B and cannot switch to GPIO function regardless of PORTA_PCR20[MUX]'s setting value.
3. Added Package marking information and Small package marking.
4. Removed "OTG/On the Go" references.

The updated K32L2B Reference Manual and Datasheet can be found at:

https://www.nxp.com/products/processors-and-microcontrollers/arm-microcontrollers/general-purpose-mcus/k32-l-series-cortex-m4-m0-plus/k32-l2-ultra-low-power-highly-integrated-mcu:K32-L2?fsp=1&tab=Documentation_Tab

Reason

The Reference Manual and Datasheet have been updated to provide additional technical clarification on some device features.

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

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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#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
K32L2B31VFM0A	935392745557	K32L2B31VFM0A	K32 L2B, 32QFN	SOT1426-2	HUQFN32	RFS	MCUs
K32L2B31VFT0A	935392746557	K32L2B31VFT0A	K32 L2B, 48QFN	SOT1586-1	HUQFN48	RFS	MCUs
K32L2B31VMP0A	935392748557	K32L2B31VMP0A	K32 L2B, 64MAPBGA	SOT1555-1	LFBGA64	RFS	MCUs
K32L2B31VLH0A	935392747557	K32L2B31VLH0A	K32 L2B, 64LQFP	SOT1699-1	LQFP64	RFS	MCUs