



**DEVICE MIGRATION**  
Generic Copy

**ISSUE DATE:** 15-Oct-2013  
**NOTIFICATION:** 15871  
**TITLE:** MPC832x Product Migration from Rev 1.1 to Rev 1.3 and End of Life of Leaded Devices  
**LAST BUY DATE:** 15-Oct-2014  
**LAST SHIP DATE:** 15-Oct-2015

**DEVICE(S)**

MPN	REPLACEMENT MPN	REPLACEMENT TYPE	REPLACEMENT REASON
MPC8321CVRADDC	MPC8321CVRADDC Replaced BY MPC8321CVRADDCA	Same Form, Fit & Function, Pin-for-Pin Equivalent	Design Change
MPC8321CVRAFDC	MPC8321CVRAFDC Replaced BY MPC8321CVRAFDCA	Same Form, Fit & Function, Pin-for-Pin Equivalent	Design Change
MPC8321CZQADDC	MPC8321CZQADDC Replaced BY MPC8321CVRADDCA	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change
MPC8321CZQAFDC	MPC8321CZQAFDC Replaced BY MPC8321CVRAFDCA	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change
MPC8321ECVRADDC	MPC8321ECVRADDC Replaced BY MPC8321ECVRADDCA	Same Form, Fit & Function, Pin-for-Pin Equivalent	Design Change
MPC8321ECVRAFDC	MPC8321ECVRAFDC Replaced BY MPC8321ECVRAFDCA	Same Form, Fit & Function, Pin-for-Pin Equivalent	Design Change
MPC8321ECZQADDC	MPC8321ECZQADDC Replaced BY MPC8321ECVRADDCA	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change
MPC8321ECZQAFDC	MPC8321ECZQAFDC Replaced BY MPC8321ECVRAFDCA	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change

MPC8321EVRADDC	MPC8321EVRADDC Replaced BY MPC8321EVRADDCA	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8321EVRAFDC	MPC8321EVRAFDC Replaced BY MPC8321EVRAFDC	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8321EZQAFDC	MPC8321EZQAFDC Replaced BY MPC8321EVRAFDC	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change,Package Change
MPC8321VRADDC	MPC8321VRADDC Replaced BY MPC8321VRADDCA	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8321VRAFDC	MPC8321VRAFDC Replaced BY MPC8321VRAFDC	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8321ZQADDC	MPC8321ZQADDC Replaced BY MPC8321VRADDCA	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change,Package Change
MPC8321ZQAFDC	MPC8321ZQAFDC Replaced BY MPC8321VRAFDC	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change,Package Change
MPC8323CVRADDC	MPC8323CVRADDC Replaced BY MPC8323CVRADDCA	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8323CVRAFDC	MPC8323CVRAFDC Replaced BY MPC8323CVRAFDC	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8323ECVRADDC	MPC8323ECVRADDC Replaced BY MPC8323ECVRADDCA	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8323ECVRAFDC	MPC8323ECVRAFDC Replaced BY MPC8323ECVRAFDC	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8323EVRADDC	MPC8323EVRADDC Replaced BY MPC8323EVRADDCA	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8323EVRAFDC	MPC8323EVRAFDC Replaced BY MPC8323EVRAFDC	Same Form, Fit & Function, Pin-for- Pin Equivalent	Design Change
MPC8323EZQADDC	MPC8323EZQADDC Replaced BY MPC8323EVRADDCA	Same Fit & Function, Different	Design Change,Package Change

		Form, Pin-for-Pin Equivalent	
MPC8323EZQAFDC	MPC8323EZQAFDC Replaced BY MPC8323EVRAFDC	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change
MPC8323VRADDC	MPC8323VRADDC Replaced BY MPC8323VRADDC	Same Form, Fit & Function, Pin-for-Pin Equivalent	Design Change
MPC8323VRAFDC	MPC8323VRAFDC Replaced BY MPC8323VRAFDC	Same Form, Fit & Function, Pin-for-Pin Equivalent	Design Change
MPC8323ZQADDC	MPC8323ZQADDC Replaced BY MPC8323VRADDC	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change
MPC8323ZQAFDC	MPC8323ZQAFDC Replaced BY MPC8323VRAFDC	Same Fit & Function, Different Form, Pin-for-Pin Equivalent	Design Change, Package Change

## **DESCRIPTION OF CHANGE**

Freescale is pleased to announce the product migration of the MPC832X product family from revision 1.1 to revision 1.3. The revision 1.3 design change has increased the self timed delay on the dual port RAM cells of the QUICC Engine using existing, standard delay options available in the current design. Most customers will not be affected by this change.

Part numbers for revision 1.3 are identified by a suffix "A".

Freescale is also announcing the discontinuance of the leaded MPC832x devices designated by a "ZQ" package type in the part number. All orders for the discontinued product must be received by the last order date. After the last order date, no accepted order may be cancelled or changed and no returns of delivered products will be accepted. This Product Discontinuance is the final notice for customer to place an order for the discontinued product. Products requiring failure analysis, additional testing or other service after the last ship may be subject to additional fees and availability of equipment, materials, or other hardware and software.

Customers using leaded package devices may use the corresponding lead-free package devices as a replacement. Lead-free devices are designated by a "VR" package type in the part number. Please see the included replacement part list for lead-free replacement part numbers.

## **REASON FOR CHANGE**

Consolidation of devices to Rev 1.3 and the lead free package type.

## **ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)**

There is no change in form, fit, function and reliability for the rev change. However a part number change is required.

For customers switching from a leaded package to a lead-free package there is no change to fit, function, and reliability. A part number change is required.

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Freescale will consider specific conditions of acceptance of this change submitted within 30 days of receipt of this notice on a case by case basis. To request further data or inquire about the notification, please enter a [Service Request](#).

For sample inquiries - please go to [www.freescale.com](http://www.freescale.com)

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**QUAL DATA AVAILABILITY DATE:** 24-Sep-2013

**QUALIFICATION STATUS:** COMPLETED

**QUALIFICATION PLAN:**

See attached qualification report.

**RELIABILITY DATA SUMMARY:**

N/A

**ELECTRICAL CHARACTERISTIC SUMMARY:**

N/A

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**CHANGED PART IDENTIFICATION:**

Part numbers for revision 1.3 are identified by a suffix "A".

For customers switching from the leaded to the lead-free package the characters impacted are the packaging type designators. "ZQ" is the current leaded package type indicator. The package type will change to "VR" to reflect the lead free package type.

**Example Part Number Changes:**

Lead-free Package, Rev 1.1 Part Number	Lead free Package, Rev 1.3 Part Number
MPC8321VRAFDC	MPC8321VRAFDC <b>A</b>

Leaded Package, Rev 1.1 Part Number	Lead free Package, Rev 1.3 Part Number
MPC8323E <b>ZQ</b> ADDC	MPC8323E <b>VR</b> ADDC <b>A</b>

Customers may now place orders for production samples for the MPC832x devices. Please contact customer support if you have any questions about how to order the new revision of the parts your company is currently ordering.

**SAMPLE AVAILABILITY DATE:** 27-Sep-2013

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**ATTACHMENT(S):**

External attachment(s) FOR this notification can be viewed AT:

[15871 MPC832x Qual Report Rev J.pdf](#)

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