

PCN Number:	20110114000AA			PCN Date:	02/03/2011												
Title:	ADC Specification Change to Stellaris Devices																
Customer Contact:	PCN Manager	Phone:	+1(214) 480-6037	Dept:	Quality Services												
Proposed 1st Ship Date:	01/19/2011	Estimated Sample Availability:	N/A														
Change Type:																	
☐ Assembly Site	☐ Assembly Process	☐ Assembly Materials															
☐ Design	☒ Electrical Specification	☐ Mechanical Specification															
☐ Test Site	☐ Packing/Shipping/Labeling	☐ Test Process															
☐ Wafer Bump Site	☐ Wafer Bump Material	☐ Wafer Bump Process															
☐ Wafer Fab Site	☐ Wafer Fab Materials	☐ Wafer Fab Process															
PCN Details																	
Description of Change:																	
Thorough characterization of the ADC module on Fury devices indicates that not all of the currently published ADC specs can be met.																	
Reason for Change:																	
Not all currently published ADC specs are achievable																	
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):																	
Changes to LSB maximums may have some effect on your application.																	
Changes to product identification resulting from this PCN:																	
ADC specifications are being changed to the following to reflect recent testing and characterization: <table border="1"> <thead> <tr> <th></th> <th>Current Spec</th> <th>New Spec</th> </tr> </thead> <tbody> <tr> <td>Offset</td> <td>1</td> <td>+6</td> </tr> <tr> <td>INL</td> <td>1</td> <td>+/-3</td> </tr> <tr> <td>DNL</td> <td>1</td> <td>+/-2</td> </tr> </tbody> </table> The offset error listed above is the conversion result with 0 V applied to the ADC input.							Current Spec	New Spec	Offset	1	+6	INL	1	+/-3	DNL	1	+/-2
	Current Spec	New Spec															
Offset	1	+6															
INL	1	+/-3															
DNL	1	+/-2															

Product Affected: All Fury class Stellaris devices with ADC listed below.

LM3S1133-EQC50-A2	LM3S1751-EQC50-A2	LM3S2651-EQC50-A2	LM3S6753-EQC50-A2
LM3S1133-EQC50-A2T	LM3S1751-EQC50-A2T	LM3S2651-EQC50-A2T	LM3S6753-EQC50-A2T
LM3S1133-IBZ50-A2	LM3S1751-IBZ50-A2	LM3S2651-IBZ50-A2	LM3S6753-IBZ50-A2
LM3S1133-IBZ50-A2T	LM3S1751-IBZ50-A2T	LM3S2651-IBZ50-A2T	LM3S6753-IBZ50-A2T
LM3S1133-IQC50-A2	LM3S1751-IQC50-A2	LM3S2651-IQC50-A2	LM3S6753-IQC50-A2
LM3S1133-IQC50-A2T	LM3S1751-IQC50-A2T	LM3S2651-IQC50-A2T	LM3S6753-IQC50-A2T
LM3S1138-EQC50-A2	LM3S1918-EQC50-A2	LM3S2739-EQC50-A2	LM3S6918-EQC50-A2
LM3S1138-EQC50-A2T	LM3S1918-EQC50-A2T	LM3S2739-EQC50-A2T	LM3S6918-EQC50-A2T
LM3S1138-IBZ50-A2	LM3S1918-IBZ50-A2	LM3S2739-IBZ50-A2	LM3S6918-IBZ50-A2
LM3S1138-IBZ50-A2T	LM3S1918-IBZ50-A2T	LM3S2739-IBZ50-A2T	LM3S6918-IBZ50-A2T
LM3S1138-IQC50-A2	LM3S1918-IQC50-A2	LM3S2739-IQC50-A2	LM3S6918-IQC50-A2
LM3S1138-IQC50-A2T	LM3S1918-IQC50-A2T	LM3S2739-IQC50-A2T	LM3S6918-IQC50-A2T
LM3S1162-EQC50-A2	LM3S1937-EQC50-A2	LM3S2918-EQC50-A2	LM3S6938-EQC50-A2
LM3S1162-EQC50-A2T	LM3S1937-EQC50-A2T	LM3S2918-EQC50-A2T	LM3S6938-EQC50-A2T
LM3S1162-IBZ50-A2	LM3S1937-IBZ50-A2	LM3S2918-IBZ50-A2	LM3S6938-IBZ50-A2
LM3S1162-IBZ50-A2T	LM3S1937-IBZ50-A2T	LM3S2918-IBZ50-A2T	LM3S6938-IBZ50-A2T
LM3S1162-IQC50-A2	LM3S1937-IQC50-A2	LM3S2918-IQC50-A2	LM3S6938-IQC50-A2
LM3S1162-IQC50-A2T	LM3S1937-IQC50-A2T	LM3S2918-IQC50-A2T	LM3S6938-IQC50-A2T
LM3S1165-EQC50-A2	LM3S1958-EQC50-A2	LM3S2919-IQC50-A2	LM3S6952-EQC50-A2
LM3S1165-EQC50-A2T	LM3S1958-EQC50-A2T	LM3S2919-IQC50-A2T	LM3S6952-EQC50-A2T
LM3S1165-IBZ50-A2	LM3S1958-IBZ50-A2	LM3S2939-EQC50-A2	LM3S6952-IBZ50-A2
LM3S1165-IBZ50-A2T	LM3S1958-IBZ50-A2T	LM3S2939-EQC50-A2T	LM3S6952-IBZ50-A2T
LM3S1165-IQC50-A2	LM3S1958-IQC50-A2	LM3S2939-IBZ50-A2	LM3S6952-IQC50-A2
LM3S1165-IQC50-A2T	LM3S1958-IQC50-A2T	LM3S2939-IBZ50-A2T	LM3S6952-IQC50-A2T
LM3S1166-IQC50-A2	LM3S1968-EQC50-A2	LM3S2939-IQC50-A2	LM3S6965-EQC50-A2
LM3S1166-IQC50-A2T	LM3S1968-EQC50-A2T	LM3S2939-IQC50-A2T	LM3S6965-EQC50-A2T
LM3S1332-EQC50-A2	LM3S1968-IBZ50-A2	LM3S2948-EQC50-A2	LM3S6965-IBZ50-A2
LM3S1332-EQC50-A2T	LM3S1968-IBZ50-A2T	LM3S2948-EQC50-A2T	LM3S6965-IBZ50-A2T
LM3S1332-IBZ50-A2	LM3S1968-IQC50-A2	LM3S2948-IBZ50-A2	LM3S6965-IQC50-A2
LM3S1332-IBZ50-A2T	LM3S1968-IQC50-A2T	LM3S2948-IBZ50-A2T	LM3S6965-IQC50-A2T
LM3S1332-IQC50-A2	LM3S1969-IQC50-A2	LM3S2948-IQC50-A2	LM3S8538-EQC50-A2
LM3S1332-IQC50-A2T	LM3S1969-IQC50-A2T	LM3S2948-IQC50-A2T	LM3S8538-EQC50-A2T
LM3S1435-EQC50-A2	LM3S2108-EQC50-A2	LM3S2965-EQC50-A2	LM3S8538-IBZ50-A2
LM3S1435-EQC50-A2T	LM3S2108-EQC50-A2T	LM3S2965-EQC50-A2T	LM3S8538-IBZ50-A2T
LM3S1435-IBZ50-A2	LM3S2108-IBZ50-A2	LM3S2965-IBZ50-A2	LM3S8538-IQC50-A2
LM3S1435-IBZ50-A2T	LM3S2108-IBZ50-A2T	LM3S2965-IBZ50-A2T	LM3S8538-IQC50-A2T
LM3S1435-IQC50-A2	LM3S2108-IQC50-A2	LM3S2965-IQC50-A2	LM3S8733-EQC50-A2
LM3S1435-IQC50-A2T	LM3S2108-IQC50-A2T	LM3S2965-IQC50-A2T	LM3S8733-EQC50-A2T
LM3S1439-EQC50-A2	LM3S2139-EQC25-A2	LM3S6422-EQC25-A2	LM3S8733-IBZ50-A2
LM3S1439-EQC50-A2T	LM3S2139-EQC25-A2T	LM3S6422-EQC25-A2T	LM3S8733-IBZ50-A2T
LM3S1439-IBZ50-A2	LM3S2139-IBZ25-A2	LM3S6422-IBZ25-A2	LM3S8733-IQC50-A2
LM3S1439-IBZ50-A2T	LM3S2139-IBZ25-A2T	LM3S6422-IBZ25-A2T	LM3S8733-IQC50-A2T

LM3S1439-IQC50-A2	LM3S2139-IQC25-A2	LM3S6422-IQC25-A2	LM3S8738-EQC50-A2
LM3S1439-IQC50-A2T	LM3S2139-IQC25-A2T	LM3S6422-IQC25-A2T	LM3S8738-EQC50-A2T
LM3S1512-EQC25-A2	LM3S2412-EQC25-A2	LM3S6432-EQC50-A2	LM3S8738-IBZ50-A2
LM3S1512-EQC25-A2T	LM3S2412-EQC25-A2T	LM3S6432-EQC50-A2T	LM3S8738-IBZ50-A2T
LM3S1512-IBZ25-A2	LM3S2412-IBZ25-A2	LM3S6432-IBZ50-A2	LM3S8738-IQC50-A2
LM3S1512-IBZ25-A2T	LM3S2412-IBZ25-A2T	LM3S6432-IBZ50-A2T	LM3S8738-IQC50-A2T
LM3S1512-IQC25-A2	LM3S2412-IQC25-A2	LM3S6432-IQC50-A2	LM3S8933-EQC50-A2
LM3S1512-IQC25-A2T	LM3S2412-IQC25-A2T	LM3S6432-IQC50-A2T	LM3S8933-EQC50-A2T
LM3S1538-EQC50-A2	LM3S2432-EQC50-A2	LM3S6537-EQC50-A2	LM3S8933-IBZ50-A2
LM3S1538-EQC50-A2T	LM3S2432-EQC50-A2T	LM3S6537-EQC50-A2T	LM3S8933-IBZ50-A2T
LM3S1538-IBZ50-A2	LM3S2432-IBZ50-A2	LM3S6537-IBZ50-A2	LM3S8933-IQC50-A2
LM3S1538-IBZ50-A2T	LM3S2432-IBZ50-A2T	LM3S6537-IBZ50-A2T	LM3S8933-IQC50-A2T
LM3S1538-IQC50-A2	LM3S2432-IQC50-A2	LM3S6537-IQC50-A2	LM3S8938-EQC50-A2
LM3S1538-IQC50-A2T	LM3S2432-IQC50-A2T	LM3S6537-IQC50-A2T	LM3S8938-EQC50-A2T
LM3S1608-EQC50-A2	LM3S2533-EQC50-A2	LM3S6618-EQC50-A2	LM3S8938-IBZ50-A2
LM3S1608-EQC50-A2T	LM3S2533-EQC50-A2T	LM3S6618-EQC50-A2T	LM3S8938-IBZ50-A2T
LM3S1608-IBZ50-A2	LM3S2533-IBZ50-A2	LM3S6618-IBZ50-A2	LM3S8938-IQC50-A2
LM3S1608-IBZ50-A2T	LM3S2533-IBZ50-A2T	LM3S6618-IBZ50-A2T	LM3S8938-IQC50-A2T
LM3S1608-IQC50-A2	LM3S2533-IQC50-A2	LM3S6618-IQC50-A2	LM3S8962-EQC50-A2
LM3S1608-IQC50-A2T	LM3S2533-IQC50-A2T	LM3S6618-IQC50-A2T	LM3S8962-EQC50-A2T
LM3S1635-EQC50-A2	LM3S2608-EQC50-A2	LM3S6633-EQC50-A2	LM3S8962-IBZ50-A2
LM3S1635-EQC50-A2T	LM3S2608-EQC50-A2T	LM3S6633-EQC50-A2T	LM3S8962-IBZ50-A2T
LM3S1635-IBZ50-A2	LM3S2608-IBZ50-A2	LM3S6633-IBZ50-A2	LM3S8962-IQC50-A2
LM3S1635-IBZ50-A2T	LM3S2608-IBZ50-A2T	LM3S6633-IBZ50-A2T	LM3S8962-IQC50-A2T
LM3S1635-IQC50-A2	LM3S2608-IQC50-A2	LM3S6633-IQC50-A2	LM3S8971-EQC50-A2
LM3S1635-IQC50-A2T	LM3S2608-IQC50-A2T	LM3S6633-IQC50-A2T	LM3S8971-EQC50-A2T
LM3S1636-IQC50-A2	LM3S2637-EQC50-A2	LM3S6637-EQC50-A2	LM3S8971-IBZ50-A2
LM3S1636-IQC50-A2T	LM3S2637-EQC50-A2T	LM3S6637-EQC50-A2T	LM3S8971-IBZ50-A2T
LM3S1637-EQC50-A2	LM3S2637-IBZ50-A2	LM3S6637-IBZ50-A2	LM3S8971-IQC50-A2
LM3S1637-EQC50-A2T	LM3S2637-IBZ50-A2T	LM3S6637-IBZ50-A2T	LM3S8971-IQC50-A2T
LM3S1637-IBZ50-A2	LM3S2637-IQC50-A2	LM3S6637-IQC50-A2	
LM3S1637-IBZ50-A2T	LM3S2637-IQC50-A2T	LM3S6637-IQC50-A2T	
LM3S1637-IQC50-A2			
LM3S1637-IQC50-A2T			

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](#) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2024, Texas Instruments Incorporated