



## Product/Process Change Notice - PCN 10\_0197 Rev. -

Analog Devices, Inc. Three Technology Way Norwood, Massachusetts 02062-9106

This notice is to inform you of a change that will be made to certain ADI products (see Material Report). Any issues with this PCN or requirements to qualify the change (additional data or samples) must be sent to ADI within 30 days of publication date. ADI contact information is listed below.

**PCN Title:** Die Revision and Datasheet Changes for ADSP-BF512/F,BF514/F,BF516/F,BF518/F Products

**Publication Date:** 27-Aug-2010

**Effectivity Date:** 25-Nov-2010 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

Die Rev 0.2 will incorporate an anomaly fix and silicon improvements:

1. Fixed Anomaly #05000462 (Synchronization Problem at Startup may cause SPORT Transmit Channels to Misalign)
2. Add support for 200MHz operating frequency @ Core Vdd\_Int of 1.15V Nom (minimum of 1.10V, maximum of +5%)

The datasheet change will affect Core operating voltage:

1. Core Vdd\_Int requirement increased for 300MHz products. (From 1.225V Nom. to 1.3V Nom, +/-5%).

### Reason For Change

Improve product performance and product portfolio, while also standardizing Core Voltage requirements with other Blackfin Processor products.

### Impact of the change (positive or negative) on fit, form, function & reliability

No change to fit, form or reliability. In some designs, increase of Core voltage for 300MHz operation may require customers to make modifications in software/ hardware design.

### Product Identification *(this section will describe how to identify the changed material)*

Die revision 0.2 will be marked on each package and appearing after 8 digit lot id number. Chip ID will be revised from 0x127E80CB to 0x227E80CB.

### Summary of Supporting Information

Qualification will be performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Plan.

### Supporting Documents

**Attachment 1: Type:** Qualification Plan Summary

ADI\_PCN\_10\_0197\_Rev\_-\_Qual PLan for BF51x rev. 0.2.pdf

**For questions on this PCN, send email to the regional contacts below or contact your local ADI sales representative**

<b>Americas:</b> PCN_Americas@analog.com	<b>Europe:</b> PCN_Europe@analog.com	<b>Japan:</b> PCN_Japan@analog.com
		<b>Rest of Asia:</b> PCN_ROA@analog.com

**Appendix A - Affected ADI Models**

**Added Parts On This Revision - Product Family / Model Number (41)**

ADSP-BF512 / ADSP-BF512BBCZ-3	ADSP-BF512 / ADSP-BF512BBCZ-4	ADSP-BF512 / ADSP-BF512BSWZ-3	ADSP-BF512 / ADSP-BF512BSWZ-4	ADSP-BF512 / ADSP-BF512KBCZ-3	ADSP-BF512 / ADSP-BF512KBCZ-4
ADSP-BF512 / ADSP-BF512KSWZ-3	ADSP-BF512 / ADSP-BF512KSWZ-4	ADSP-BF512F / ADSP-BF512BBCZ-4F4	ADSP-BF512F / ADSP-BF512BSWZ-4F4	ADSP-BF512F / ADSP-BF512KBCZ-4F4	ADSP-BF512F / ADSP-BF512KSWZ-4F4
ADSP-BF514 / ADSP-BF514BBCZ-3	ADSP-BF514 / ADSP-BF514BBCZ-4	ADSP-BF514 / ADSP-BF514BSWZ-3	ADSP-BF514 / ADSP-BF514BSWZ-4	ADSP-BF514 / ADSP-BF514KBCZ-3	ADSP-BF514 / ADSP-BF514KBCZ-4
ADSP-BF514 / ADSP-BF514KSWZ-3	ADSP-BF514 / ADSP-BF514KSWZ-4	ADSP-BF514F / ADSP-BF514BBCZ-4F4	ADSP-BF514F / ADSP-BF514BSWZ-4F4	ADSP-BF514F / ADSP-BF514KBCZ-4F4	ADSP-BF514F / ADSP-BF514KSWZ-4F4
ADSP-BF516 / ADSP-BF516BBCZ-3	ADSP-BF516 / ADSP-BF516BBCZ-4	ADSP-BF516 / ADSP-BF516BSWZ-3	ADSP-BF516 / ADSP-BF516BSWZ-4	ADSP-BF516 / ADSP-BF516KBCZ-3	ADSP-BF516 / ADSP-BF516KBCZ-4
ADSP-BF516 / ADSP-BF516KSWZ-3	ADSP-BF516 / ADSP-BF516KSWZ-4	ADSP-BF516F / ADSP-BF516BBCZ-4F4	ADSP-BF516F / ADSP-BF516BSWZ-4F4	ADSP-BF516F / ADSP-BF516KBCZ-4F4	ADSP-BF516F / ADSP-BF516KSWZ-4F4
ADSP-BF518 / ADSP-BF518BBCZ-4	ADSP-BF518 / ADSP-BF518BSWZ-4	ADSP-BF518F / ADSP-BF518BBCZ-4F4	ADSP-BF518F / ADSP-BF518BSWZ-4F4	ADSP-BF518F / ADSP-BF518KBCZ-4FX	

**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Rev Description</b>
Rev. -	27-Aug-2010	Initial Release

Analog Devices, Inc.

DocId:1213 Parent DocId:None Layout Rev:3