



## Product/Process Change Notice - PCN 13\_0165 Rev. -

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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:** AD9510 data sheet update

**Publication Date:** 09-Oct-2013

**Effectivity Date:** 07-Jan-2014 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Release

### Description Of Change

Two of the LVDS/CMOS outputs feature programmable delay elements with full-scale ranges up to 10 ns of delay. This fine tuning delay block had 5-bit resolution, which gave 32 possible delay settings. The change reduces the possible register settings of 00000b to 11000b ( settings 11001b through 11111b are Do Not Use) giving 25 possible delays from which to choose for each full-scale setting. This reduces the full-scale delay range from 10 ns to 8ns. Changes noted in datasheet revision history (rev A to rev B)

The portion of the test program which confirms functionality of the analog delay has been altered to support the new delay range limit

### Reason For Change

Process drift has made it impossible for ADI to guarantee the analog delay function to the level originally specified

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

If more than 8ns of delay is required, the device cannot reliably support it

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

Not applicable - All units will comply to new specification

### Summary of Supporting Information

none

### Comments

No re-qualification is necessary as there was no change to the device itself

**Supporting Documents**      None

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

**Americas:** PCN\_Americas@analog.com

**Europe:** PCN\_Europe@analog.com

**Japan:** PCN\_Japan@analog.com

**Rest of Asia:** PCN\_ROA@analog.com

**Appendix A - Affected ADI Models**

**Added Parts On This Revision - Product Family / Model Number (4)**

AD9510 / AD9510-VCO/PCBZ	AD9510 / AD9510/PCBZ	AD9510 / AD9510BCPZ	AD9510 / AD9510BCPZ-REEL7	
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**Appendix B - Revision History**

<b>Rev</b>	<b>Publish Date</b>	<b>Effectivity Date</b>	<b>Rev Description</b>
Rev. -	09-Oct-2013	07-Jan-2014	Initial Release

Analog Devices, Inc.

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