



## Product/Process Change Notice - PCN 13\_0135 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:** Clarification of Absolute Maximum Ratings of GPIO/Analog pins for ADuC7023 product

**Publication Date:** 28-Jun-2013

**Effectivity Date:** 28-Jun-2013 *(the earliest date that a customer could expect to receive changed material)*

### Revision Description:

Initial Revision

### Description Of Change

The ADuC7023 has voltage limits specified for analog pins and separately limits for digital pins. Some of the pins (P1.2, P1.3, P1.4, P1.5, P2.0, P2.2, P2.3 and P2.4) have shared analog and digital functions.

For these pins it was implied that the lower of the analog and digital limits apply, however this was not explicitly stated. This lower limit that applied to the pins above is -0.3 V to AVDD + 0.3 V.

### Reason For Change

Explicitly state shared analog/digital pin limits in Data Sheet. There is no change to the actual product.

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

If the analog pin voltage limits are not observed on the ADuC7023 shared analog/digital pins a loss in ADC performance will be observed.

### Summary of Supporting Information

The ADuC7023 datasheet Rev. D will reflect the above changes.

**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 (8) |                               |                               |                               |                               |
| ADUC7023 / ADUC7023BCBZ62I-R7                                    | ADUC7023 / ADUC7023BCBZ62I-U1 | ADUC7023 / ADUC7023BCP6Z62I   | ADUC7023 / ADUC7023BCP6Z62IR7 | ADUC7023 / ADUC7023BCP6Z62IRL |
| ADUC7023 / ADUC7023BCPZ62I                                       | ADUC7023 / ADUC7023BCPZ62I-R7 | ADUC7023 / ADUC7023BCPZ62I-RL |                               |                               |

| Appendix B - Revision History |              |                  |                  |
|-------------------------------|--------------|------------------|------------------|
| Rev                           | Publish Date | Effectivity Date | Rev Description  |
| Rev. -                        | 28-Jun-2013  | 28-Jun-2013      | Initial Revision |
|                               |              |                  |                  |