



Product/Process Change Notice - PCN 21_0248 Rev. A

Analog Devices, Inc. One Analog Way, Wilmington, MA 01887

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

Note: Revised fields are indicated by a red field name. See Appendix B for revision history.

PCN Title: AD7124-8/-4 B Grade Redesign - Metal Edit
Publication Date: 17-May-2022
Effectivity Date: 17-May-2022 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:
Added detail on 20mV Internal Diagnostic and Product Identification number update.

Description Of Change:

Metal mask edits to improve the following -
Rev_

- 1. Performance at -40c low supply with large steps on Analog Input Common Mode to PGA.
- 2. Prevent Part reset if Analog input outside Datasheet operating conditions and converting 20mV diagnostic.

Rev A

- 1. The ID register value is now 0x07 (AD7124-4) and 0x17 (AD7124-8).
- 2. When V_20MV_P/ V_20MV_M is selected as the analog input to the ADC, the absolute voltage on V_20MV_M will be at AVSS which may cause the AINM_UV_ERR flag to be set (if AINM_UV_ERR_EN=1). So, if the AINM_UV_ERR check is enabled, the user should ignore the value of AINM_UV_ERR when the channel V_20MV_P/ V_20MV_M is being measured.

Reason For Change:

Improve robustness and performance of Part.

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

There will be no change to fit, form, function or reliability of the device.

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

Changeover Date code will be notified on later Revision of this PCN
Changes will be reflected in the following Datasheet Revisions.
AD7124-4 datasheet rev E
AD7124-8 datasheet rev F.

Summary of Supporting Information:

No Qual Required

Supporting Documents None

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.

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

Existing Parts - Product Family / Model Number (9)

AD7124-4 / AD7124-4BBCPZ	AD7124-4 / AD7124-4BBCPZ-RL	AD7124-4 / AD7124-4BBCPZ-RL7	AD7124-8 / AD70041Z-0RL7	AD7124-8 / AD70051Z-0RL7
AD7124-8 / AD70070Z-0RL7	AD7124-8 / AD7124-8BBCPZ	AD7124-8 / AD7124-8BBCPZ-RL	AD7124-8 / AD7124-8BBCPZ-RL7	

Appendix B - Revision History

Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	08-Feb-2022	13-May-2022	Initial Release
Rev. A	17-May-2022	17-May-2022	Added detail on 20mV Internal Diagnostic and Product Identification number update.

Analog Devices, Inc.

DocId:8877 Parent DocId:None Layout Rev:8