



Product/Process Change Notice - PCN 14_0193 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: ADUM3200 Die Revision and Data Sheet Changes
Publication Date: 06-Oct-2014
Effectivity Date: 04-Jan-2015 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:

Initial Release

Description Of Change

Design Changes (Both Die):

1. Increased pulse width of edge pulses and refresh pulses.
2. Increased separation between consecutive pulses on rising edge and refresh high pulses.

Data sheet changes are as follows:

1. Minimum operating voltage increased from 2.7V to 3.0V.
2. Typical 3V voltage increased from 3.0V to 3.3V.

For the list of IDD typical and maximum limit changes, see data sheet specification comparison attachment.

Reason For Change

Design Changes:

1. Ensure receiver can reliably detect all edge pulses and all refresh pulses.
2. Ensure 2nd pulse on rising edge or refresh high is consistently detected by receiver.

Data sheet changes:

1. Increase in size of existing capacitors in receiver block caused increase in Idd-Dynamic current.

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

No change to fit, form, or reliability. Improved functionality.

Summary of Supporting Information

Qualification has been performed per ADI0012, Procedure for Qualification of New or Revised Processes. See attached Qualification Report Summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_14_0193_Rev_-_ADuM320x Die Rev Qual Summary.pdf

Attachment 2: Type: Datasheet Specification Comparison

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				
Added Parts On This Revision - Product Family / Model Number (6)				
ADUM3200 / ADuM3200ARZ	ADUM3200 / ADuM3200ARZ-RL7	ADUM3200 / ADuM3200BRZ	ADUM3200 / ADuM3200BRZ-RL7	ADUM3200 / ADuM3200CRZ
ADUM3200 / ADuM3200CRZ-RL7				

Appendix B - Revision History			
Rev	Publish Date	Effectivity Date	Rev Description
Rev. -	06-Oct-2014	04-Jan-2015	Initial Release

Yellow denotes an increase in specification

Current Data Sheet IDD Limits

ADUM3200, 5.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.7	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		3.5	4.6	mA
I _{DD2} - 10Mbps		1.7	2.8	mA
I _{DD1} - 25Mbps		7.7	10.0	mA
I _{DD2} - 25Mbps		3.1	3.9	mA

ADUM3200, 3.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		2.0	3.2	mA
I _{DD2} - 10Mbps		1.1	1.7	mA
I _{DD1} - 25Mbps		4.3	6.4	mA
I _{DD2} - 25Mbps		1.8	2.4	mA

ADUM3200, 5.0V/3.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.7	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		3.5	4.6	mA
I _{DD2} - 10Mbps		1.1	1.7	mA
I _{DD1} - 25Mbps		7.7	10.0	mA
I _{DD2} - 25Mbps		1.8	2.4	mA

ADUM3200, 3.0V/5.0V Operation (From:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		2.0	3.2	mA
I _{DD2} - 10Mbps		1.7	2.8	mA
I _{DD1} - 25Mbps		4.3	6.4	mA
I _{DD2} - 25Mbps		3.1	3.9	mA

Revised Data Sheet IDD Limits

ADUM3200, 5.0V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.8	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		3.5	4.6	mA
I _{DD2} - 10Mbps		2.0	2.8	mA
I _{DD1} - 25Mbps		7.7	10.0	mA
I _{DD2} - 25Mbps		3.8	4.9	mA

ADUM3200, 3.3V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		2.2	3.2	mA
I _{DD2} - 10Mbps		1.3	1.7	mA
I _{DD1} - 25Mbps		4.8	6.4	mA
I _{DD2} - 25Mbps		2.3	3.0	mA

ADUM3200, 5.0V/3.3V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		1.3	1.8	mA
I _{DD2} - 1Mbps		0.7	1.0	mA
I _{DD1} - 10Mbps		3.5	4.6	mA
I _{DD2} - 10Mbps		1.3	1.7	mA
I _{DD1} - 25Mbps		7.7	10.0	mA
I _{DD2} - 25Mbps		2.3	3.0	mA

ADUM3200, 3.3V/5.0V Operation (To:)

Specification	Min	Typ	Max	Unit
I _{DD1} - 1Mbps		0.8	1.3	mA
I _{DD2} - 1Mbps		1.0	1.6	mA
I _{DD1} - 10Mbps		2.2	3.2	mA
I _{DD2} - 10Mbps		2.0	2.8	mA
I _{DD1} - 25Mbps		4.8	6.4	mA
I _{DD2} - 25Mbps		3.8	4.9	mA