

#### AllianceMemoryInc.

511 Taylor Way, Suite 1, San Carlos, CA 94070

Main +1(650)610-6800

FAX +1(650)620-9211

# **Product Change Notification (PCN)**

Date: November 15<sup>th</sup>, 2016 PCN TRACKING NO:PCN-111516102

Subject: Product Change Notification (PCN) for Alliance SDRAM's (256M SDRAM)

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Description of Change:	Product will only be offered in a new Die Revision (A die)
Reason for Change	Product revision to provide continuous support to Alliance's customers
Traceability, Guidelines (lot, date code, markings, shipment date)	Traceable through marketing part#
Updated Datasheet  Summary of Changes between  New and Old part numbers	Part#has been changed and updated datasheets are posted on our website <a href="http://www.alliancememory.com/products/s_dram.asp">http://www.alliancememory.com/products/s_dram.asp</a> See table 1 Below

#### Table 1

Density	Organization	Alliance Part Number	Alliance New Part Number (A die)
256M	8M x 32	AS4C8M32S-6BIN	AS4C8M32SA-6BIN
256M	8M x 32	AS4C8M32S-7BCN	AS4C8M32SA-7BCN

### **NEW Additional Options**

256M	8M x 32		AS4C8M32SA-6BCN AS4C8M32SA-7BIN
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Last Time Buy Date:	December 31 <sup>st</sup> 2016
Last Time Ship Date:	June 30 <sup>th</sup> 2017
Sample Available Date	December 31 <sup>st</sup> 2016
PCN Effective Date:	November 15 <sup>th</sup> 2016

Any orders after December 31, 2016 are Non-cancelable / Non-Returnable and cannot be changed.

## ALLIANCE M E M O R Y

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#### **Dear Valued Customer:**

This letter provides End–of–Life (EOL) notice of SDRAM products with an 256M density. These products will move to new 'A' die revision in Q1-2017.

The delivery deadline is June 30<sup>th</sup>, 2017 with last time buy (LTB) deadline on December 31<sup>st</sup>, 2016. Please note that the standard shipment dates will apply in general and extended delivery dates must be pre-arranged and accepted in writing by Alliance Memory Management.

Please see the below comparison between the current die rev and the new A die. Samples will be available on December 31st, 2016.

Please contact your local Alliance Memory representative if you have any questions regarding this information.

Yours sincerely,

David Bagby President

**Alliance Memory Inc.** 



### **Comparison between**

## AS4C8M32S-6BIN/7BCN and AS4C8M32SA-6BIN/7BCN – 256M SDRAM

Part Number&result	AS4C8M32S-6BIN	AS4C8M32SA-6BIN	C : D !!	
Parameter	AS4C8M32S-7BCN	AS4C8M32SA-7BCN	Comparison Result	
Wafer Process	72nm	63nm	Difference	
Power Supply	3.3V±0.3V	3.3V±0.3V	Same	
Typical Power			AS4C8M32SA has	
Dissipation of Normal	Omit.(See datasheet)	Omit.(See datasheet)	better power	
-			dissipation than	
Operation			AS4C8M32S.	
Operating	Commercial (0°C to 70°C)	Commercial (0°C to 70°C)	Cama	
Temperature	Industrial (-40 ~ 85°C)	Industrial (-40 ~ 85°C)	Same	
May Operating Consol	166MHz	166MHz		
Max Operating Speed	143MHz	143MHz	Same	
	Input capacitance,Ci:	Input capacitance,Ci:		
	4.0– 10 pF	3.5– 5.5 pF		
Interface	Input/output	Input/output	Difference	
(Input/Output)	capacitance ;Ci/o:	capacitance ;Ci/o:		
Capacitance	4– 6.5 pF	4– 6 pF		
Interface Definition	0 : (0   1   1   1)	Omit.(See datasheet)	Same.	
interface Definition	Omit.(See datasheet)		They are pin to pin.	
Interface Material	Pb and Halogen Free	Pb and Halogen Free	Same	
			AS4C8M32SA is	
Timing Parameters	Omit.(See datasheet)	Omit.(See datasheet)	equal to or less than	
			AS4C8M32S	
Timing Diagram &	0 : (6   1   1   1)	0 1 (0 1 1 1)	Same	
Command	Omit.(See datasheet)	Omit.(See datasheet)		
ESD Level	JEDEC: 2KV HBM	JEDEC: 2KV HBM	Same	
Capacity	256M	256M	Same	
Deales	90-ball 8 x 13 x 1.4mm FBGA	90-ball 8 x 13 x 1.2mm FBGA	Pin to Pin	
Package	package	package	compatible	
Truth Table	Omit.(See datasheet)	Omit.(See datasheet)	same	
			AS4C8M32SA will	
Supply Time			replace	
			AS4C8M32S.	