



Alliance Memory Inc.

12815 NE 124th St., Suite D, Kirkland, WA 98034 USA

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Product Discontinue Notification (PDN)

Date: March 24th, 2023

PDN TRACKING NO: PDN#20230324

Subject: Product Discontinue Notification (PDN) for Alliance **1Gb (64M x 16) DDR1 SDRAM revA TSOP II Package.**

Affected Part Numbers	AS4C64M16D1A-6TCN AS4C64M16D1A-6TCNTR AS4C64M16D1A-6TIN AS4C64M16D1A-6TINTR
Description of Change:	Affected Products are discontinued due to supply issue with qualified TSOP II Lead frames
Reason for Change	TSOPII Lead Frame Supply issue for only affected part numbers
Traceability, Guidelines (lot, date code, markings, shipment date)	Traceable through marketing part number
Alternative Part	AS4C64M16D1-6TCN AS4C64M16D1-6TCNTR AS4C64M16D1-6TIN AS4C64M16D1-6TINTR
Summary of Alternative	Proposed Alternative is rev0 Die designed/qualified per JEDEC, Pin to Pin compatible and Drop-in Alternative. Refer comparison

Last Time Buy Date:	March 31 st , 2023
Last Time Ship Date:	September 30 th , 2023
Sample Availability Date for alternative part number	Now
PCN Effective Date	March 24 th , 2023

Please contact your local sales representative if you have any questions regarding this PDN.



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Dear Valued Customer:

This letter provides Product Discontinue notification for 1Gb (64M x16) DDR1 SDRAM rev.A product part number "**AS4C64M16D1A-6TCN/TR, AS4C64M16D1A-6TIN/TR**" due to supply issue of qualified lead frames. Due to circumstances beyond our control, we regret notifying Product discontinuation with a short notice period.

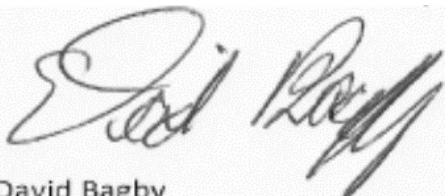
Alternative to the affected products will continue to be offered without any supply disruption that are already in mass production. Comparisons between affected and alternative products are provided in this **PDN#20230324**

The delivery deadline or last time ship date is **September 30th, 2023** with effective immediate last time buy (LTB) deadline **on March 31st, 2023**. Please take note that all backlogs shall suffer long lead times or cancellation if we are unable to supply by delivery deadline.

Samples for alternative part numbers are available for customers to start verification procedures

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

Yours faithfully



David Bagby
President
Alliance Memory Inc.





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AS4C64M16D1-6TCN/TIN vs AS4C64M16D1A-6TCN/TIN Comparison

PARAMETERS / FEATURES	AS4C64M16D1-6TCN/TIN	AS4C64M16D1A-6TCN/TIN (rev. A)	Comparison Result
Product Description	DDR1 SDRAM	DDR1 SDRAM	Same
Capacity	1Gb (64M x 16)	1Gb (64M x 16)	Same
Memory Organization	16M, x16 bits, x4 banks	16M, x16 bits, x4 banks	Same
Operating Power Supply	VDD/Q = 2.5V ± 0.2V	VDD/Q = 2.5V ± 0.2V	Same
Operating Temperature	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Same
Max. Clock Frequency	166MHz	166MHz	Same
Clock Cycle time "tCK" (ns)	6	6	Same
CAS Latency	2,2.5 & 3	2,2.5 & 3	Same
Burst Length	2,4,8	2,4,8	Same
tRCD & tRP (ns)	15	15	Same
Row Address	A0-A13	A0-A13	Same
Column Address	A0-A9	A0-A9	Same
Average Refresh Period	8192cycles/64ms	8192cycles/64ms	Same
Pin to Pin Compatible	Pin to Pin Compatible		Same
AC/DC Characteristics	Same	Same	Meet JEDEC
IDD Specification			
IDD Spec conditions	-40C ≤ Ta ≤ 85C VDD/Q = 2.5V ± 0.2V	-40C ≤ Ta ≤ 85C VDD/Q = 2.5V ± 0.2V	
I _{DD0} (mA)	85	160	Non A version better
I _{DD1} (mA)	105	180	Non A version better
I _{DD2P} (mA)	6	10	Non A version better
I _{DD2F} (mA)	30	70	Non A version better
I _{DD2Q} (mA)	25	70	Non A version better
I _{DD3P} (mA)	15	40	Non A version better
I _{DD3N} (mA)	35	130	Non A version better
I _{DD4R} (mA)	115	260	Non A version better
I _{DD4W} (mA)	145	260	Non A version better
I _{DD5} (mA)	185	280	Non A version better
I _{DD6} (mA)	3	12	Non A version better
I _{DD7} (mA)	230	420	Non A version better
Package	66 Pin TSOP II, 0.65mm pin pitch	66 Pin TSOP II, 0.65mm pin pitch	Same
Package Material	Pb & Halogen Free	Pb & Halogen Free	Same