

PCN / EOL Notification

Product Change Notification Number: PDF008 Notification Date: August 21, 2013

Title: 32-Mbit DataFlash® (AT45DB321D) Process Geometry Shrink and Device Enhancement						
Product Identification:						
All wafer and package options of the Industrial Temperature grade (-40°C to +85°C) AT45DB321D						
Reason for Change:		Design / Firmware				
	□ Processing / Manufacturing	☐ Logistics	☐ Quality/Reliability			
Change Des	cription:					
Adesto has performed a process geometry shrink and feature set enhancement of the 32-Mbit AT45DB321D DataFlash®. The catalog part number AT45DB321D will be replaced by AT45DB321E (see Table 1). The new AT45DB321E devices are pin-to-pin and functionally backward compatible with the current AT45DB321D devices with the following exceptions and enhancements.						
Extended-VCC Operation Adesto has designed the AT45DB321E devices to operate over a 2.3V to 3.6V range versus the previous 2.5V to 3.6V range options on the D series devices.						
"Power of 2"binary page size option The "power of 2" binary page size option can still be ordered as a factory-configured option. However, the catalog part number suffixes of SL954 and SL955 for the factory-configured option will no longer be used. The new Binary Page Mode option will be defined by the ordering code suffix '2B' incorporated into the base part number. As part of this part number change Binary Page mode options will be limited to T&R orders only. Please refer to Table 1 for the new catalog part number for the factory-programmed "power of 2" binary page size option.						
Migration to a 5-byte Manufacturer and Device ID The length of the complete Manufacturer and Device ID string has been extended from 4 bytes to 5 bytes to provide space for additional device information. The ID methodology still complies with the JEDEC standard and now utilizes the Extended Device Information (EDI) field. The Manufacturer and Device ID string changes as follows: AT45DB321D: 1Fh + 27h + 00h + 00h AT45DB321E: 1Fh + 27h + 00h + 01h + 00h						
<u>Lead Finish</u> The lead finis	sh has been changed from Matte Sn t	to NiPdAu.				

Identification Method:

New catalog part numbers use an "E" suffix for device revision (AT45DB321D changes to AT45DB321E).

Table 1:

EOL Part Number	Replacement Part Number	Carrier Type	
AT45DB321D-CU	AT45DB321E-CCUF-T*	T for T/R	
AT45DB321D-MU	AT45DB321E-MHF-Y	Y for Tray	
A 143DB3Z1D-IVIU	AT45DB321E-MHF-T	T for T/R	
AT45DB321D-MU-SL954	- AT45DB321F-MHF2B-T	Only T/R offered	
AT45DB321D-MU-SL955	A 145DB321E-WIFFZB-1	Only 1/K offered	
AT45DB321D-MU-2.5	AT45DB321E-MHF-Y	Y for Tray	
A143DB321D-WU-2.3	AT45DB321E-MHF-T	T for T/R	
AT45DB321D-MWU	AT45DB321E-MWHF-Y	Y for Tray	
A 143DB321D-IVIVVO	AT45DB321E-MWHF-T	T for T/R	
AT45DB321D-MWU-SL954	AT45DB321F-MWHF2B-T	Only T/R offered	
AT45DB321D-MWU-SL955	A 143DB321E-WWHF2B-1		
AT45DB321D-SU	AT45DB321E-SHF-B	B for Bulk	
A143DB321D-30	AT45DB321E-SHF-T	T for T/R	
AT45DB321D-SU SL954	AT45DB321E-SHF2B-T	Only T/R offered	
AT45DB321D-SU SL955	A14500521E-5111 20-1	Only 1/10 Offered	
AT45DB321D-SU-2.5	AT45DB321E-SHF-B	B for Bulk	
A 143DD321D-3U-2.3	AT45DB321E-SHF-T	T for T/R	
AT45DB321D-TU	No offering in TSOP. Recommend SOIC	EOL	
AT45DB321D-DWF	AT45DB321E-DWF	Whole Wafer, No Back Grind	

Notes:

* BGA package changed from 24-Ball BGA for the 45DB321D to a 9-Ball BGA for the 45DB321E. The 9-Ball BGA utilizes the same
center 9 balls (3 x 3 ball matrix) of the 24-Ball BGA footprint. Therefore, no PCB change is required.

Qualification Data:	\boxtimes	Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable
Samples:	\boxtimes	Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable
Quantifiable Impact on Quality & Reliability:				
None				

Forecasted Availability Date (AT45DB321E): Now Last Time Buy Date (AT45DB321D): January 31, 2014

Last Ship Date (AT45DB321D): July 31, 2014

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 $^{{}^{\}star}\text{All orders placed after the notification date are non-cancellable and non-returnable (NCNR)}.$

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