

PCN / EOL Notification

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Product Change Notification Number: PDF013 Not

Product Chang	ge Notification Number: PDF013	Notifica	tion Date: October 31, 2013
Title: 32-Mbit [DataFlash® (AT45DB321D) Process (Geometry Shrink and Device	e Enhancement
Product Ident	fication:		
All wafer and p	ackage options of the Industrial Temp	erature grade (-40°C to +8	5°C) AT45DB321D
Reason for Change:	☐ Material / Composition	Design / Firmware	Manufacturing Location
	□ Processing / Manufacturing	☐ Logistics	☐ Quality/Reliability
Change Desc	•		
DataFlash®. AT45DB321D	erformed a process geometry shrink a The Last Time Buy Date has been ext will be replaced by AT45DB321E (selly backward compatible with the curres.	<mark>ended to April 18, 2014</mark> . The Table 1). The new AT45	ne catalog part number DB321E devices are pin-to-pin
Extended-VC	C Operation		
Adesto has de	esigned the AT45DB321E devices to options on the D series devices.	operate over a 2.3V to 3.6V	range versus the previous 2.5V
"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			
number. Ås p	age Mode option will be defined by the eart of this part number change Binary o Table 1 for the new catalog part nun	Page mode options will be	limited to T&R orders only.
The length of provide space	5-byte Manufacturer and Device ID the complete Manufacturer and Device for additional device information. The Extended Device Information (EDI)	e ID methodology still comp	lies with the JEDEC standard and
	: 1Fh + 27h + 00h + 00h		
AT45DB321E	: 1Fh + 27h + 00h + 01h + 00h		
<u>Lead Finish</u> The lead finisl	n has been changed from Matte Sn 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 143DB321D-IVIO	AT45DB321E-MHF-T	T for T/R	
AT45DB321D-MU-SL954		Only T/R offered	
AT45DB321D-MU-SL955	A 143DB3Z1E-IVINFZB-1		
AT45DB321D-MU-2.5	AT45DB321E-MHF-Y	Y for Tray	
	AT45DB321E-MHF-T	T for T/R	
AT45DB321D-MWU	AT45DB321E-MWHF-Y	Y for Tray	
A143DB321D-WWV	AT45DB321E-MWHF-T	T for T/R	
AT45DB321D-MWU-SL954	-AT45DB321E-MWHF2B-T	Only T/R offered	
AT45DB321D-MWU-SL955	A 1430b321c-WWHI 2b-1	Only 1/K offered	
AT45DB321D-SU	AT45DB321E-SHF-B	B for Bulk	
A143003210-30	AT45DB321E-SHF-T	T for T/R	
AT45DB321D-SU SL954	AT45DB321E-SHF2B-T	Only T/R offered	
AT45DB321D-SU SL955	A14306321E-3111 2B-1		
AT45DB321D-SU-2.5	AT45DB321E-SHF-B	B for Bulk	
	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:		☐ Will be available (mm/dd/yr):	☐ Not Applicable
Samples:		☐ Will be available (mm/dd/yr):	☐ Not Applicable
Quantifiable Impact on Quality & Reliability:			
None			

Forecasted Availability Date (AT45DB321E): Now Last Time Buy Date (AT45DB321D): April 18, 2014 Last Ship Date (AT45DB321D): October 17, 2014

Adesto Contact: PCNsupport@adestotech.com

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

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