Atmel Corporation
Tel: 408-441-0311
Fax: 408-487-2600

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Dear Customer:

This letter, along with the attached Product Change Notification form (PCN# SC053701), serves as a formal announcement that Atmel's 16-Mbit DataFlash and 2-Mbyte DataFlash Card have undergone a shrink and redesign from a 0.25µm process to a 0.13µm process. The 0.13µm devices are fast (66 MHz maximum clock frequency), high endurance (100,000 program/erase cycles per page), and offer advanced features. These devices offer the same high level of quality and are functionally compatible with the earlier devices.

The 0.13µm parts are available in streamlined package offering. We are removing the low volume CBGA and 28pin 0.300" SOIC from our line up. **A PCB change is required** to transition to the recommended 8-pin SOIC, 8-pad MLF or 28-lead TSOP. The 8-pad CASON has been replaced with the footprint compatible 8-lead SOIC.

0.25µm Device	0.13µm Replacement
AT45DB161B-CC	AT45DB161D-MU see note 1
AT45DB161B-CC-2.5	AT45DB161D- MU-2.5 see note 1
AT45DB161B-CI	AT45DB161D-MU see note 1
AT45DB161B-CI-2.5	AT45DB161D-MU-2.5 see note 1
AT45DB161B-CNC	AT45DB161D-SU
AT45DB161B-CNC-2.5	AT45DB161D-SU-2.5
AT45DB161B-CNI	AT45DB161D-SU
AT45DB161B-CNI-2.5	AT45DB161D-SU-2.5
AT45DB161B-CNU	AT45DB161D-SU
AT45DB161B-RC	AT45DB161D-SU see note 2
AT45DB161B-RC-2.5	AT45DB161D-SU-2.5 see note 2
AT45DB161B-RI	AT45DB161D-SU see note 2
AT45DB161B-RI-2.5	AT45DB161D-SU-2.5 see note 2
AT45DB161B-RU	AT45DB161D-SU see note 2
AT45DB161B-TC	AT45DB161D-TU

AT45DB161B-TC-2.5	AT45DB161D-TU-2.5
AT45DB161B-TI	AT45DB161D-TU
AT45DB161B-TI-2.5	AT45DB161D-TU-2.5
AT45DB161B-TU	AT45DB161D-TU
AT45DB161B-TU-2.5	AT45DB161D-TU-2.5
Not previously offered	AT45DB161D-MU
Not previously offered	AT45DB161D-MU-2.5
AT45DCB002	AT45DCB002D

Note 1: Atmel recommends the 8-pad MLF package as a leadless alternative
Note 2: Atmel recommends the 8-pin SOIC package

Although every attempt has been made to preserve compatibility with earlier devices, some differences should be noted. The major differences between the previous and the new version of the 16-Mbit are:

1. The "D" devices are available in Green (RoHS compliant) packaging only, which are backwards compatible to a leaded solder profile.
2. For erase and programming operations, the AT45DB161B and AT45DCB002 utilized fixed timing, whereas, the AT45DB161D and AT45DCB002D use an adaptive algorithm for superior endurance. The system design must utilize status polling rather than fixed timing for program and erase operations.
3. With the transition to the "D" generation the low volume CBGA, 28-pin SOIC have been removed from the offering. The recommended replacement would be the narrow body 0.150" MLF for those needing smallest area and no leads or the more cost-effective 8-pin wide body 0.209" SOIC.
4. The 8-pad CASON is being replaced by the footprint compatible and more cost-effective 8-pin wide body 0.209" SOIC

Customers needing any assistance in converting to the AT45DB161D, please contact an Atmel representative.
For complete device description, please refer to the AT45DB161D datasheet http://www.atmel.com, under the DataFlash Memory Products section.

Sincerely,

Mohsen Boostani
Atmel DataFlash® Marketing