



# PCN / EOL Notification

**Product Change Notification Number:** SC083106A (REVISED 08/13/08) **Date\*:** July 31, 2008  
**See Attachment A for Part Number Change in Bold Blue Font**

**Title:** (A) Transfer of Atmel's **Industrial Grade** Parallel EEPROM (28 Series) Product Line to Pb-free and Halogen Free Packaging – Green and RoHS Compliant.  
(B) Slower speed offerings will be replaced by **faster speed** marking.

**Product Identification:**

All TSOP, PLCC, SOIC and PDIP Packages of Industrial Grade Product.  
See Attachment A for the affected part numbers.

**Reason for Change:**

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Design                 | <input type="checkbox"/> Processing          | <input type="checkbox"/> Logistics           |
| <input type="checkbox"/> Manufacturing Location | <input type="checkbox"/> Quality/Reliability | <input checked="" type="checkbox"/> Material |

**Change Description:**

**Movement to Green and RoHS offering**

In response to worldwide environmental regulations and as an environmentally responsible company, Atmel is transitioning our Parallel EEPROM parts to "RoHS" and "Green" material sets. All parts formerly designated with the standard Industrial Grade of "I" will now be assigned and marked with a "U" designator. The "U" designator is the Atmel standard offering in "RoHS" and "Green" packages.

Atmel has fully qualified these packages in conformance to Jedec Std 020C and will label shipping containers in accordance with JESD97. All Atmel Parallel EEPROM lead frame packages are "backward compatible" with standard Pb-Sn containing solder paste.

Please refer to Atmel's URL site regarding

Green Packaging: <http://www.atmel.com/green/default.asp>

Backward Compatibility: [http://www.atmel.com/green/back\\_comp.asp](http://www.atmel.com/green/back_comp.asp)

The replacement offering is shown on the attached Replacement Chart. These impact all Parallel EEPROM product families.

**Movement to Higher Speed Marking**

Slower speed offerings will be replaced by faster speed marking. It impacts to following base product offering: AT28HC64B, AT28HC256E and AT28HC256F.

This is considered a marking change only. Product manufacturing processes and all aspects of product performance remain unchanged and in accordance with datasheet specifications.

These changes takes advantage of the highly stable manufacturing process, and will streamline manufacturing logistics, leading to improved stock availability and delivery performance.

Note that, as per details in:

- 1) PCN#SE083101, the PDIP – "P" package devices for AT28BV64B, AT28HC64B, AT28HC64BF, AT28BV256 and AT28C256E, AT28C256F, AT28HC256, AT28HC256E, AT28HC256F, AT28C010, AT28C010E and AT28LV010 family have reached End-of-Life.
- 2) PCN#SE083103, the AT28C256EF and 70ns speed grade & TSSOP package of AT28HC256F family products have reached End-of-Life.

The product selector guide, datasheet and price catalog will be revised accordingly.

Note: Please refer to the datasheets for parameter specifications.

**Reason for this PCN/EOL:**

Due to reduced capacity to build leaded packages at assembly houses and also because of low customer demand.

**Identification Method to Distinguish Change:**

Change Part Number Temperature grade code from "I" to "U".

**Qualification Data:**             available             will be available in WW\_\_\_             not applicable

**Samples:**                         available             will be available in WW\_\_\_             not applicable

**Quantifiable Impact on Quality & Reliability:**

No Impact

**Forecasted Availability Date:**            Green-compliant package offerings are available immediately.

**Last Time Buy Date:**                        August 30, 2008

**Last Ship Date:**                                October 30, 2008

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

**Atmel Contact:**                        [pcnadm@atmel.com](mailto:pcnadm@atmel.com)

Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice. All correspondence must be sent to the Quality Contact e-mail address listed above.

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## Attachment A

Current Part Number	Replacement Part Number		Current Part Number	Replacement Part Number
AT28BV64B-20JI	AT28BV64B-20JU		AT28HC256-70TI	AT28HC256-70TU
AT28BV64B-20PI	N/A - EOL <sup>(1)</sup>		AT28HC256-90TI	AT28HC256-90TU
AT28BV64B-20SI	AT28BV64B-20SU		AT28HC256-12TI	AT28HC256-90TU
AT28BV64B-20TI	AT28BV64B-20TU		AT28HC256E-70JI	AT28HC256E-70JU
AT28C64B-15JI	AT28C64B-15JU		AT28HC256E-90JI	AT28HC256E-12JU <sup>(3)</sup> <b>AT28HC256-90JU</b> <sup>(3)</sup>
AT28C64B-15PI	AT28C64B-15PU		AT28HC256E-12JI	AT28HC256E-12JU
AT28C64B-15SI	AT28C64B-15SU		AT28HC256E-70PI	N/A - EOL <sup>(1)</sup>
AT28C64B-15TI	AT28C64B-15TU		AT28HC256E-90PI	N/A - EOL <sup>(1)</sup>
AT28HC64B-55PI	N/A - EOL <sup>(1)</sup>		AT28HC256E-12PI	N/A - EOL <sup>(1)</sup>
AT28HC64B-70JI	AT28HC64B-70JU		AT28HC256E-70SI	AT28HC256E-70SU
AT28HC64B-90JI	AT28HC64B-70JU		AT28HC256E-90SI	AT28HC256E-12SU <sup>(3)</sup> <b>AT28HC256-90SU</b> <sup>(3)</sup>
AT28HC64B-12JI	AT28HC64B-70JU		AT28HC256E-12SI	AT28HC256E-12SU
AT28HC64B-70PI	N/A - EOL <sup>(1)</sup>		AT28HC256E-70TI	AT28HC256E-70TU
AT28HC64B-90PI	N/A - EOL <sup>(1)</sup>		AT28HC256E-90TI	AT28HC256E-12TU <sup>(3)</sup> <b>AT28HC256-90TU</b> <sup>(3)</sup>
AT28HC64B-12PI	N/A - EOL <sup>(1)</sup>		AT28HC256E-12TI	AT28HC256E-12TU
AT28HC64B-70SI	AT28HC64B-70SU		AT28HC256F-70JI	<b>AT28HC256F-90JU</b> <sup>(2,3)</sup>
AT28HC64B-90SI	AT28HC64B-70SU		AT28HC256F-90JI	AT28HC256F-90JU
AT28HC64B-12SI	AT28HC64B-70SU		AT28HC256F-12JI	AT28HC256F-90JU
AT28HC64B-70TI	AT28HC64B-70TU		AT28HC256F-70PI	N/A - EOL <sup>(1)</sup>
AT28HC64B-90TI	AT28HC64B-70TU		AT28HC256F-90PI	N/A - EOL <sup>(1)</sup>
AT28HC64B-12TI	AT28HC64B-70TU		AT28HC256F-12PI	N/A - EOL <sup>(1)</sup>
AT28BV256-20JI	AT28BV256-20JU		AT28HC256F-70SI	<b>AT28HC256F-90SU</b> <sup>(2,3)</sup>
AT28BV256-20PI	N/A - EOL <sup>(1)</sup>		AT28HC256F-90SI	AT28HC256F-90SU
AT28BV256-20SI	AT28BV256-20SU		AT28HC256F-12SI	AT28HC256F-90SU
AT28BV256-20TI	AT28BV256-20TU		AT28HC256F-70TI	<b>AT28HC256F-90TU</b> <sup>(2,3)</sup>
AT28C256-15JI	AT28C256-15JU		AT28HC256F-90TI	AT28HC256F-90TU
AT28C256-15PI	AT28C256-15PU		AT28HC256F-12TI	AT28HC256F-90TU
AT28C256-15SI	AT28C256-15SU		AT28C010-12JI	AT28C010-12JU
AT28C256-15TI	AT28C256-15TU		AT28C010-12PI	N/A - EOL <sup>(1)</sup>

Current Part Number	Replacement Part Number		Current Part Number	Replacement Part Number
AT28C256E-15JI	AT28C256E-15JU		AT28C010-12TI	AT28C010-12TU
AT28C256E-15PI	N/A - EOL <sup>(1)</sup>		AT28C010-15JI	AT28C010-15JU
AT28C256E-15SI	AT28C256E-15SU		AT28C010-15PI	N/A - EOL <sup>(1)</sup>
AT28C256E-15TI	AT28C256E-15TU		AT28C010-15TI	AT28C010-15TU
AT28C256EF-15JI	N/A - EOL <sup>(2)</sup>		AT28C010-20JI	AT28C010-15JU
AT28C256EF-20JI	N/A - EOL <sup>(2)</sup>		AT28C010-20PI	N/A - EOL <sup>(1)</sup>
AT28C256F-15JI	AT28C256F-15JU		AT28C010-20TI	AT28C010-15TU
AT28C256F-15PI	N/A - EOL <sup>(1)</sup>		AT28C010E-12JI	AT28C010E-12JU
AT28C256F-15SI	AT28C256F-15SU		AT28C010E-12PI	N/A - EOL <sup>(1)</sup>
AT28C256F-15TI	AT28C256F-15TU		AT28C010E-12TI	AT28C010E-12TU
AT28HC256-70JI	AT28HC256-70JU		AT28C010E-15JI	AT28C010E-15JU
AT28HC256-90JI	AT28HC256-90JU		AT28C010E-15PI	N/A - EOL <sup>(1)</sup>
AT28HC256-12JI	AT28HC256-90JU		AT28C010E-15TI	AT28C010E-15TU
AT28HC256-70PI	N/A - EOL <sup>(1)</sup>		AT28C010E-20JI	AT28C010E-15JU
AT28HC256-90PI	N/A - EOL <sup>(1)</sup>		AT28C010E-20PI	N/A - EOL <sup>(1)</sup>
AT28HC256-12PI	N/A - EOL <sup>(1)</sup>		AT28C010E-20TI	AT28C010E-15TU
AT28HC256-70SI	AT28HC256-70SU		AT28LV010-20JI	AT28LV010-20JU
AT28HC256-90SI	AT28HC256-90SU		AT28LV010-20PI	N/A - EOL <sup>(1)</sup>
AT28HC256-12SI	AT28HC256-90SU		AT28LV010-20TI	AT28LV010-20TU

**Note:**<sup>(1)</sup> Refer to PCN#SE083101 for details<sup>(2)</sup> Refer to PCN#SE083103 for details<sup>(3)</sup> Suggested Replacement, Refer to Datasheet for Speed & Endurance specifications