



# Product Change Notification

**Product Change Notification Number: CC054503**

**Date: November 15, 2005**

**Title: AT24C256 Die Shrink**

**Product Identification:**

All Packages and Voltages of the AT24C256, Industrial Temperatures.

**Reason for Change:**

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

**Change Description:**

Atmel has performed a die size reduction of the AT24C256 in the Industrial Temperature (-40 to 85C). The new version device will be manufactured utilizing the .25u process versus the .35u process for the current AT24C256. A NEW part number will be created by adding an "B" to the suffix of the part identifier for the shrink: AT24C256B. Atmel has also optimized the clock frequency for faster operation at lower Vcc as well as added an extra address pin (A2) for additional device cascading. In addition, to accommodate the growing movement to Lead-Free products, the new shrink will ONLY be available in Lead-Free / Halogen-Free, 1.8V only. The new Vcc range will be from 1.8V to 3.6V.

**Identification Method to Distinguish Change:**

There will be a NEW part number created by adding a "B" to the suffix of the catalogue part number: The AT24C256 will now be AT24C256B.

**Qualification Data:**

- |                                    |  |   |
|------------------------------------|--|---|
| <input type="checkbox"/> available | <input checked="" type="checkbox"/> will be available in Q4-2005 | <input type="checkbox"/> not applicable |
|------------------------------------|--|---|

**Samples:**

- |                                    |   |   |
|------------------------------------|---|---|
| <input type="checkbox"/> available | <input checked="" type="checkbox"/> will be available NOW | <input type="checkbox"/> not applicable |
|------------------------------------|---|---|

**Quantifiable Impact on Quality & Reliability:**

The new devices are a form, fit and function equivalent of the current devices operating at 3.6Vcc and below and meet all 1.8V to 3.6V databook specifications.

**Estimated Implementation Date\*:** February 14, 2006

**Last Time Buy Date:** May 14, 2006

**Last Ship Date:** November 14, 2006

\*The Estimated Implementation Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.

**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

<b>End-of-Life-Part Number</b>	<b>Replacement Part Number</b>
AT24C256-10PU-1.8	AT24C256B-10PU-1.8
AT24C256-10PU-2.7	AT24C256B-10PU-1.8
AT24C256-10TU-1.8	AT24C256B-10TU-1.8
AT24C256-10TU-2.7	AT24C256B-10TU-1.8
AT24C256-W1.8-11	AT24C256B-W1.8-11
AT24C256-W2.7-11	AT24C256B-W1.8-11
AT24C256-WB1.8-11	AT24C256B-WB1.8-11
AT24C256-WB2.7-11	AT24C256B-WB1.8-11
AT24C256-WU1.8-11	AT24C256B-WU1.8-11
AT24C256N-10SU-1.8	AT24C256BN-10SU-1.8
AT24C256N-10SU-2.7	AT24C256BN-10SU-1.8
AT24C256U2-10UU-1.8	AT24C256BU2-10UU-1.8
AT24C256W-10SU-1.8	AT24C256BN-10SU-1.8
AT24C256W-10SU-2.7	AT24C256BN-10SU-1.8
AT24C256Y1-10YU-1.8	AT24C256BY1-10YU-1.8