



# Product Change Notification

**Product Change Notification Number: CC053301**

**Date: August 26, 2005**

**Title: AT24C02 / AT24C02A Clock Frequency Increase**

**Product Identification:**

All Packages and Voltages of the AT24C02 and AT24C02A, Industrial Temperatures.  
See Attachment A

**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 optimized the layout of the AT24C02 / AT24C02A devices and increased clock frequency up to 1Mhz. The new devices are pin-to-pin and backward compatible with the current AT24C02 / AT24C02A devices. New devices are available in 1.8 voltage and Green Packaging, only.

**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 AT24C02 (FULL WP) will now be AT24C02B. The AT24C02A (1/2 WP) will now be the AT24HC02B.

**Qualification Data:**

- |                                    |  |   |
|------------------------------------|--|---|
| <input type="checkbox"/> available | <input checked="" type="checkbox"/> will be available in Q3-2005 | <input type="checkbox"/> not applicable |
|------------------------------------|--|---|

**Samples:**

- |                                    |  |   |
|------------------------------------|--|---|
| <input type="checkbox"/> available | <input checked="" type="checkbox"/> will be available in WW 31 | <input type="checkbox"/> not applicable |
|------------------------------------|--|---|

**Quantifiable Impact on Quality & Reliability:**

Layout change has been performed to optimize clock frequency at lower Vcc ranges. The new devices utilize the same 0.35u process technology and are a form, fit and functional equivalent of the current devices, which meet all databook specifications.

**Estimated Implementation Date\*:** November 26, 2005

**Last Time Buy Date:** February 26, 2006

**Last Ship Date:** August 26, 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>Current Part</b>	<b>Replacement Part</b>
AT24C02-10PU-1.8	AT24C02B-10PU-1.8
AT24C02-10PU-2.7	AT24C02B-10PU-1.8
AT24C02N-10SU-1.8	AT24C02BN-10SU-1.8
AT24C02N-10SU-2.7	AT24C02BN-10SU-1.8
AT24C02-10TU-1.8	AT24C02B-10TU-1.8
AT24C02-10TU-2.7	AT24C02B-10TU-1.8
AT24C02-10TSU-1.8	AT24C02B-10TSU-1.8
AT24C02Y1-10YU-1.8	AT24C02BY1-10YU-1.8
AT24C02U3-10UU-1.8	AT24C02BU3-10UU-1.8
AT24C02Y5-10YU-1.8	AT24C02BY6-10YU-1.8
AT24C02-W1.8-11	AT24C02B-W1.8-11
AT24C02-W1.8-9	AT24C02B-W1.8-11
AT24C02-W2.7-11	AT24C02B-W1.8-11
AT24C02-W2.7-27	AT24C02B-W1.8-11
AT24C02A-10PU-1.8	AT24HC02B-10PU-1.8
AT24C02A-10PU-2.7	AT24HC02B-10PU-1.8
AT24C02A-10TU-1.8	AT24HC02B-10TU-1.8
AT24C02A-10TU-2.7	AT24HC02B-10TU-1.8
AT24C02AN-10SU-1.8	AT24HC02BN-10SU-1.8
AT24C02AN-10SU-2.7	AT24HC02BN-10SU-1.8