# PCN / EOL Notification

**Product Change Notification Number:** **CC102101A (REVISED 06/15/10)** **Notification Date*:** June 4, 2010
**Change a Part Number in Attachment A**

**Title:** INTRODUCTION OF NEW 1.7V 32K and 64K SERIAL EEPROMs

**Product Identification:**
All Wafers and Packages of the AT24C32C and AT24C64C, Industrial Temperature Grade (-40C to +85C)
Replacement Part Numbers are shown in Attachment A

**Reason for Change:**

| | | |
|---|---|---|
| ☐ Design | ☒ Processing | ☐ Logistics |
| ☐ Manufacturing Location | ☐ Quality/Reliability | ☐ Material |

**Change Description:**
Atmel is introducing new Serial EEPROMs with an operating range of 1.7V to 5.5V: AT24C32**D** and AT24C64**D**.

The NEW AT24C32D and AT24C64D (1.7V to 5.5V) will now replace all AT24C32C and AT24C64C (1.8V to 5.5V) devices respectively.

The new packaged devices offered with the AT24C32D and AT24C64D are as the following:

| | |
|---|---|
| 8-lead JEDEC SOIC: | ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. |
| 8-lead TSSOP: | ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. |
| 8-lead UDFN (Mini-MAP): | ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. |
| 8-lead XDFN: | ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. |
| 5-lead SOT23: | ROHS compliant/Lead-Free/Halogen-Free/Matte Tin plating. |
| 8-ball VFBGA (dBGA2): | ROHS compliant/Lead-Free/Halogen-Free/SnAgCu balls. |

Atmel will also support die sales shipment in Wafer Form, Tape and Reel and Bumped Wafers

**Identification Method to Distinguish Change:**
NEW part numbers have been created by adding a "D" to the suffix of the catalogue part number:
The AT24C32C shall be identified as the AT24C32**D.**
The AT24C64C shall be identified as the AT24C64**D.**

| | | | |
|---|---|---|---|
| **Qualification Data:** | ☐ available | ☒ will be available on June 18, 2010 | ☐ not applicable |
| **Samples:** | ☒ available | ☐ will be available in WW___ | ☐ not applicable |

**Quantifiable Impact on Quality & Reliability:**
The new devices are a form, fit and function equivalent of the current devices, which meet all databook specifications.

**Forecasted Availability Date:** Now
**Last Time Buy Date:** November 30, 2010
**Last Ship Date:** May 31, 2011

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

**Atmel Contact:** 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 Atmel Contact e-mail address listed above.**

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**Attention Distributors:** Product(s) identified in this notification will become obsolete and as such this EOL notification will act as the official written notification. All obsolete products will be listed in the next published quarterly distributor price book, following an PCN/EOL change, and listed on the obsolescence form which accompanies said price book. Within thirty (30) days from the published date of the price book, Distributor shall notify Atmel in writing of Distributor's then current inventory of the obsolete product.

## Attachment A

This is the listing for standard datasheet offering, PCN also applies to all (customer specific) special CAN part numbers that are not listed in the table below:

| EOL Part Number | Replacement Part Number | Carrier Type |
|---|---|---|
| AT24C32C-PU | No replacement | |
| AT24C32C-TH-B | AT24C32D-XHM-B | Bulk |
| AT24C32C-TH-T | AT24C32D-XHM-T | T/R |
| AT24C32CN-SH-B | AT24C32D-SSHM-B | Bulk |
| AT24C32CN-SH-T | AT24C32D-SSHM-T | T/R |
| AT24C32CY6-YH-T | AT24C32D-MAHM-T | T/R |
| AT24C32CU2-UU-T | AT24C32D-CUM-T | T/R |
| New Part # | AT24C32D-STUM-T | T/R |
| New Part # | AT24C32D-MEHM-T | T/R |
| AT24C32C-W-11 | AT24C32D-WWU11M | Wafer Form |
| AT24C64C-PU | No replacement | |
| AT24C64C-TH-B | AT24C64D-XHM-B | Bulk |
| AT24C64C-TH-T | AT24C64D-XHM-T | T/R |
| AT24C64CN-SH-B | AT24C64D-SSHM-B | Bulk |
| AT24C64CN-SH-T | AT24C64D-SSHM-T | T/R |
| **AT24C64CY6-YH-T** | AT24C64D-MAHM-T | T/R |
| AT24C64CU2-UU-T | AT24C64D-CUM-T | T/R |
| AT24C64CD3-DH-T | AT24C64D-MEHM-T | T/R |
| AT24C64C-W-11 | AT24C64D-WWU11M | Wafer Form |

## Attachment B

### Top Side Marking

AT24C32D-SSHM-T/B

```
                        Seal Year
TOP MARK                 |  Seal Week
                         |   |   |
|---|---|---|---|---|---|---|---|
  A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|---|
  3   2   D   M               @
|---|---|---|---|---|---|---|---|
  *      Lot Number
|---|---|---|---|---|---|---|---|
  |
 Pin 1 Indicator (Dot)

Y = SEAL YEAR          WW = SEAL WEEK
 8: 2008   2: 2012      02 = Week 2
 9: 2009   3: 2013      04 = Week 4
 0: 2010   4: 2014      :: : :::: :
 1: 2011   5: 2015      :: : :::: ::
                        50 = Week 50
                        52 = Week 52

 @ = Country of Assembly
     No Bottom Mark
```

AT24C32D-MEHM-T

```
TOP MARK
|---|---|---|
  3   2   D
|---|---|---|
  Y   T   C
|---|---|---|
  *
  |
Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

TC = TRACE CODE (ATMEL LOT NUMBERS TO
CORRESPOND WITH TRACE CODE LOG BOOK)
(e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR
8: 2008 0: 2012
9: 2007 1: 2013
0: 2010 2: 2014
1: 2011 3: 2015
```

## AT24C32D-CUM-T

```
TOP MARK
|---|---|---|---|
  3   2   D   U
|---|---|---|---|
  Y   M   T   C
|---|---|---|---|
  |<--  Pin 1 This Corner

 Y = ONE DIGIT YEAR CODE
  8: 2008   1: 2011
  9: 2009   2: 2012
  1: 2011   3: 2013

 M = SEAL MONTH (USE ALPHA DESIGNATOR A-L)
  A = JANUARY
  B = FEBRUARY
  " " """""""
  J = OCTOBER
  K = NOVEMBER
  L = DECEMBER

    TC = TRACE CODE (ATMEL LOT
         NUMBERS TO CORRESPOND
         WITH TRACE CODE LOG BOOK)
          (e.g. XX = AA, AB...YZ, ZZ)
```

## AT24C32D-MAHM-T

```
TOP MARK
|---|---|---|
  3   2   D
|---|---|---|
  H   M   @
|---|---|---|
  Y   T   C
|---|---|---|
  *
  |
 Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

    TC = TRACE CODE (ATMEL LOT
         NUMBERS TO CORRESPOND
         WITH TRACE CODE LOG BOOK)
          (e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR
 8: 2008   0: 2012     @ = Country  of
 9: 2007   1: 2013     Assembly
 0: 2010   2: 2014
 1: 2011   3: 2015
```

## AT24C32D-XHM-T/B

```
TOP MARK

 Pin 1 Indicator (Dot)
  |
    |---|---|---|---|---|---|
  *   A   T   H   Y   W   W
    |---|---|---|---|---|---|
      3   2   D   M       @
|---|---|---|---|---|---|---|
     ATMEL LOT NUMBER
|---|---|---|---|---|---|---|

Y = SEAL YEAR          WW = SEAL WEEK
 8: 2008   2: 2012      02 = Week 2
 9: 2009   3: 2013      04 = Week 4
 0: 2010   4: 2014      :: : :::: :
 1: 2011   5: 2015      52 = Week 52

  @ = Country of Assembly
          No Bottom Mark
```

## AT24C32D-STUM-T

```
TOP MARK

                   |---|---|---|---|---|
Line 1 ----------> |  B   D   M   W   U
                   |---|---|---|---|---|
                     *
                     |
                   Pin 1 Indicator (Dot)
BD = Device Code
M = Voltage Indicator
W = Write Protect Feature
U = Material Set
Pin 1 Indicator (Dot)

BOTTOM MARK

|---|---|---|---|
  Y   M   T   C
|---|---|---|---|

Y = One Digit Year Code
M = Seal Month

TC = Trace Code
```

## Top Side Marking

AT24C64D-SSHM-T/B

```
                      Seal Year
TOP MARK               |  Seal Week
                       |   |   |
|---|---|---|---|---|---|---|---|
  A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|---|
  6   4   D   M               @
|---|---|---|---|---|---|---|---|
  *      Lot Number
|---|---|---|---|---|---|---|---|
  |
 Pin 1 Indicator (Dot)

Y = SEAL YEAR          WW = SEAL WEEK
 8: 2008   2: 2012      02 = Week 2
 9: 2009   3: 2013      04 = Week 4
 0: 2010   4: 2014      :: : :::: :
 1: 2011   5: 2015      :: : :::: ::
                        50 = Week 50
                        52 = Week 52

 @ = Country of Assembly
     No Bottom Mark
```

AT24C64D-MEHM-T

```
TOP MARK
|---|---|---|
  6   4   D
|---|---|---|
  Y   T   C
|---|---|---|
  *
  |
Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

TC = TRACE CODE (ATMEL LOT NUMBERS TO
CORRESPOND WITH TRACE CODE LOG BOOK)
(e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR
8: 2008 0: 2012
9: 2007 1: 2013
0: 2010 2: 2014
1: 2011 3: 2015
```

## AT24C64D-CUM-T

```
TOP MARK
|---|---|---|---|
  6   4   D   U
|---|---|---|---|
  Y   M   T   C
|---|---|---|---|
  |<--  Pin 1 This Corner

 Y = ONE DIGIT YEAR CODE
  8: 2008   1: 2011
  9: 2009   2: 2012
  1: 2011   3: 2013

 M = SEAL MONTH (USE ALPHA DESIGNATOR A-L)
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  J = OCTOBER
  K = NOVEMBER
  L = DECEMBER

    TC = TRACE CODE (ATMEL LOT
         NUMBERS TO CORRESPOND
         WITH TRACE CODE LOG BOOK)
          (e.g. XX = AA, AB...YZ, ZZ)
```

## AT24C64D-MAHM-T

```
TOP MARK
|---|---|---|
  6   4   D
|---|---|---|
  H   M   @
|---|---|---|
  Y   T   C
|---|---|---|
  *
  |
 Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

    TC = TRACE CODE (ATMEL LOT
         NUMBERS TO CORRESPOND
         WITH TRACE CODE LOG BOOK)
          (e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR
 8: 2008   0: 2012     @ = Country  of
 9: 2007   1: 2013     Assembly
 0: 2010   2: 2014
 1: 2011   3: 2015
```

## AT24C64D-XHM-T/B

```
TOP MARK

 Pin 1 Indicator (Dot)
  |
    |---|---|---|---|---|---|
  *   A   T   H   Y   W   W
    |---|---|---|---|---|---|
      6   4   D   M       @
|---|---|---|---|---|---|---|
     ATMEL LOT NUMBER
|---|---|---|---|---|---|---|

Y = SEAL YEAR          WW = SEAL WEEK
 8: 2008   2: 2012      02 = Week 2
 9: 2009   3: 2013      04 = Week 4
 0: 2010   4: 2014      :: : :::: :
 1: 2011   5: 2015      52 = Week 52


  @ = Country of Assembly
           No Bottom Mark
```