



PCN / EOL Notification

Product Change Notification Number: CC102101

Notification Date*: June 4, 2010

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:

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

Change Description:

Atmel is introducing new Serial EEPROMs with an operating range of 1.7V to 5.5V: AT24C32D and AT24C64D.

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 (dBG2): | 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 AT24C32D.
The AT24C64C shall be identified as the AT24C64D.

Qualification Data:

- | | | |
|------------------------------------|--|---|
| <input type="checkbox"/> available | <input checked="" type="checkbox"/> will be available on June 18, 2010 | <input type="checkbox"/> not applicable |
|------------------------------------|--|---|

Samples:

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> available | <input type="checkbox"/> will be available in WW__ | <input type="checkbox"/> 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
AT24C32CY6-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

```

TOP MARK
      Seal Year
      | 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-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-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-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 (ATEMEL 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

