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# PCN / EOL Notification

Product Change Notificatio	n Number:	CC072302		<b>Date*:</b> June 11, 2007
Title: AT24C04 / AT24C04A C	lock Frequenc	y Increase		
Product Identification: All Wafers, Packages and Volta See Attachment A	ges of the AT	24C04 and AT2	24C04A, Industrial Te	emperature
Reason for Change:	⊠Design □Manufactu	ring Location	☐ Processing ☐ Quality/Reliability	☐ Logistics ☐ Material

#### **Change Description:**

Atmel has optimized the layout of the AT24C04 / AT24C04A devices and increased clock frequency up to 1MHz. The new devices are pin-to-pin and backward compatible with the current AT24C04 / AT24C04A devices.

NEW catalogue part numbers will be created: The AT24C04 (FULL WP) will now be AT24C04B. The 24C04A (1/2 WP) will now be AT24HC04B. In an effort to streamline our product offering, the AT24C04B / AT24HC04B will be offered with one marking scheme, 1.8V, and will operate in voltage range from 1.8V to 5.5V.

To accommodate the growing movement to Lead-Free products, the AT24C04B / AT24HC04B will ONLY be available in Pb-Free / Halogen-Free (Green), and RoHS compliant packaging. The 8-SOIC, 8-TSSOP, 8-ULA and 8-ULTRA THIN MINI-MAP (AT24C04B only) packages with NiPdAu lead finish will be designated by "H" in the catalogue part number. The 8-PDIP, 5-SOT23 and dBGA2 (AT24C04B only) with the Matte Tin lead finish will be designated by "U" in the catalogue part number. Please refer to "Attachment A" for complete cross reference table.

#### New physical part marking scheme:

#### AT24C04B

#### 8-SOIC TOP MARK Seal Year Y = SEAL YEARWW = SEAL WEEK Seal Week 6: 2006 0: 2010 02 = Week 27: 2007 1: 2011 04 = Week 4---|---| 8: 2008 2: 2012 A T M L H Y W W 9: 2009 3: 2013 |---|---|---| :: : :::: : :: : :::: :: |---|---|---| 50 = Week 5052 = Week 52|---|---|---| \* Lot Number Lot Number to Use ALL Characters in Marking |---|---|---| BOTTOM MARK Pin 1 Indicator (Dot) No Bottom Mark

#### 8-TSSOP

#### TOP MARK

Pir	1 1	Indic	ator	(Dot)
*	H	Y	W	W
0	4	В		1

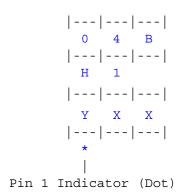
Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

#### BOTTOM MARK

P	Н						
A	Α	Α	Α	A	A	Α	
<-	Pin	1 Tn	dica	ator			

#### 8-Ultra Thin Mini MAP

#### TOP MARK



#### Y = YEAR OF ASSEMBLY

XX = ATMEL LOT NUMBER TO COORESPOND WITH
NSEB TRACE CODE LOG BOOK.
(e.g. XX = AA, AB, AC,...AX, AY, AZ)

# Y = SEAL YEAR 6: 2006 0: 2010 7: 2007 1: 2011 8: 2008 2: 2012 9: 2009 3: 2013

Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

#### Lot Number to Use ALL Characters in Marking

#### |---|---|-

8-PDIP TOP MARK

Γ	M	L	U	Y	W	W	

Seal Year

| Seal Week

# 0 4 B 1

#### Pin 1 Indicator (Dot)

#### BOTTOM MARK

No Bottom Mark

#### ULA

TOP MARK

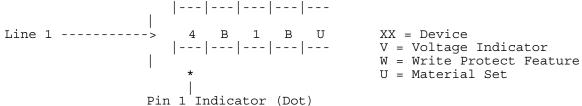
Y = BUILD YEAR

2006 = 6 2008 = 8 2007 = 7 Etc. . . .

XX = ATMEL LOT NUMBER TO COORESPOND WITH NSEB TRACE CODE LOG BOOK. (e.g. XX = AA, AB, AC,...AX, AY, AZ)

#### SOT23

TOP MARK



BOTTOM MARK

### dBGA2

TOP MARK

TC = Trace Code

M = Seal Month (Use Alpha Designator A-L)

U = Material Set

Y = One Digit Year Code M = Seal Month (Use Alpha Designator A-L) TC = Trace Code

## AT24HC04B

#### 8-SOIC

TOP	MAR	K				Sea	l Ye	ar	Y =
							Sea	l Week	6:
									7:
									8:
	A	T	M	L	H	Y	W	W	9:
	Н	4	В		1				
	*	Lot	. Nur	mber					Lot
									BOT:
	Pin	1 Ir	ndica	ator	(Dot	<b>こ</b> )			

Y =	SEAL	YEAR		,	WW =	= 5	SEAL 1	WEEF	ζ
6:	2006	0:	2010		02	=	Week	2	
7:	2007	1:	2011		04	=	Week	4	
8:	2008	2:	2012		::	:	::::	:	
9:	2009	3:	2013		::	:	::::	::	
					50	=	Week	50	
					52	=	Week	52	

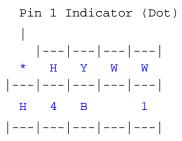
Lot Number to Use ALL Characters in Marking

#### BOTTOM MARK

No Bottom Mark

#### 8-TSSOP

TOP MARK



Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

#### BOTTOM MARK

#### 8-PDIP

P	MARI	Z.				Seal	Yea	r
							Seal	Week
	Α	T	M	L	U	Y	W	W
	H	4	В		1			
	*		 : Num					
						ı		1
	 Pin	1 In	ndica	tor	(Dot	=)		

Lot Number to Use ALL Characters in Marking

#### BOTTOM MARK

No Bottom Mark

Identification Method to Distinguish Change:							
A NEW catalogue part number will be created for the optimized layout: The AT24C04 (FULL WP) will now be AT24C04B. The 24C04A (1/2 WP) will now be AT24HC04B.							
Qualification Data: [ Samples: [	☐ available ☐ available	<ul><li>⋈ will be available in Q3 2007</li><li>⋈ will be available in June 2007</li></ul>	<ul><li>☐ not applicable</li><li>☐ not applicable</li></ul>				
Quantifiable Impact on Qua The new devices utilize the sa equivalent of the current device	ame 0.35u proces	ss technology and are a form, f	fit and functional				
Proposed First Ship Date:	Septem	ber 10, 2007					
Last Time Buy Date:	Deceml	per 10, 2007					
Last Ship Date: June 10, 2008							
* All orders placed after the notification date are <b>non-cancellable</b> and <b>non-returnable</b> ( <b>NCNR</b> ).							

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.

pcnadm@atmel.com

**Atmel Contact:** 

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# **Attachment A**

Current Part Number	Replacement Part Number
AT24C04-10PU-1.8	AT24C04B-PU
AT24C04-10PU-2.7	AT24C04B-PU
AT24C04-TSU-1.8 SL383 (T&R)	AT24C04B-TSU-T (5k per reel)
AT24C04-10TU-1.8 BULK	AT24C04B-TH-B
AT24C04-10TU-1.8 SL383 (T&R)	AT24C04B-TH-T (5k per reel)
AT24C04-10TU-2.7 BULK	AT24C04B-TH-B
AT24C04-10TU-2.7 SL383 (T&R)	AT24C04B-TH-T (5k per reel)
AT24C04-W1.8-11	AT24C04B-W-11
AT24C04-W1.8-27	AT24C04B-W-11
AT24C04-W1.8-7	AT24C04B-W-11
AT24C04-W2.7-11	AT24C04B-W-11
AT24C04-W2.7-21	AT24C04B-W-11
AT24C04-W2.7-27	AT24C04B-W-11
AT24C04N-10SU-1.8 BULK	AT24C04BN-SH-B
AT24C04N-10SU-1.8 SL383 (T&R)	AT24C04BN-SH-T (4k per reel)
AT24C04N-10SU-2.7 BULK	AT24C04BN-SH-B
AT24C04N-10SU-2.7 SL383 (T&R)	AT24C04BN-SH-T (4k per reel)
AT24C04U3-10UU-1.8 SL383 (T&R)	AT24C04BU3-UU-T (5k per reel)
AT24C04U3-10UU-2.7 SL383 (T&R)	AT24C04BU3-UU-T (5k per reel)
	AT24C04BY6-YH-T (5k per reel)
AT24C04Y1-10YU-1.8 SL383 (T&R)	*Recommend Ultra Thin Mini MAP (Y6) for replacement (not a direct replacement)
AT24C04Y6-10YH-1.8 SL383 (T&R)	AT24C04BY6-YH-T (5k per reel)
AT24C04A-10PU-1.8	AT24HC04B-PU
AT24C04A-10PU-2.7	AT24HC04B-PU
AT24C04A-10TU-1.8 BULK	AT24HC04B-TH-B
AT24C04A-10TU-1.8 SL383 (T&R)	AT24HC04B-TH-T (5k per reel)
AT24C04A-10TU-2.7 BULK	AT24HC04B-TH-B
AT24C04A-10TU-2.7 SL383 (T&R)	AT24HC04B-TH-T (5k per reel)
AT24C04AN-10SU-1.8 BULK	AT24HC04BN-SH-B
AT24C04AN-10SU-1.8 SL383 (T&R)	AT24HC04BN-SH-T (4k per reel)
AT24C04AN-10SU-2.7 BULK	AT24HC04BN-SH-B
AT24C04AN-10SU-2.7 SL383 (T&R)	AT24HC04BN-SH-T (4k per reel)

Note: This PCN also applies to CAN part numbers that are not listed in the above table.