



PCN / EOL Notification

Product Change Notification Number: CC105101

Notification Date*: December 22, 2010

Title: INTRODUCTION OF NEW 512K SERIAL EEPROM			
Product Identification: All Wafers and Packages of the AT24C512B, Industrial Temperature Grade (-40C to +85C). Replacement Part Numbers are shown in Attachment A			
Reason for Change:	<input type="checkbox"/> Material / Composition	<input checked="" type="checkbox"/> Design / Firmware	<input type="checkbox"/> Manufacturing Location
	<input type="checkbox"/> Processing / Manufacturing	<input type="checkbox"/> Logistics	<input type="checkbox"/> Quality / Reliability
Change Description: Atmel is introducing a new, optimized-layout Serial EEPROM: AT24C512C. The NEW packaged devices will be offered in both 1.7 and 2.5 voltages: <u>1.7V to 3.6V</u> and <u>2.5V to 5.5V</u> . The UDFN, VFBGA, die, and wafer sales will only be offered in 1.7V. The new packaged devices offered with the AT24C512C are as the following: 8-lead JEDEC SOIC (SS): ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. 8-lead EIAJ SOIC (S): ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. 8-lead TSSOP (X): ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. 8-lead UDFN (MA): ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. 8-ball VFBGA (C): 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 "C" to the suffix of the catalogue part number: The AT24C512B shall be identified as the AT24C512C.			
Qualification Data:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable
Samples:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<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:	June 30, 2011		
Last Ship Date:	December 31, 2011		
*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).			
Atmel Contact: pcnadm@atmel.com			
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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			

CUSTOMER ACKNOWLEDGEMENT OF RECEIPT: Atmel requests you acknowledge receipt of this EOL. Please complete and email to the Atmel Contact listed above. In your acknowledgement, you can grant approval or request additional information. **Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice.**

Company:

Name:

Title:

Date:

Email Address:

Location:

Comments:

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
AT24C512B-PU	No replacement	
AT24C512B-PU25	No replacement	
AT24C512B-TH-B	AT24C512C-XHM-B	Bulk
AT24C512B-TH-T	AT24C512C-XHM-T	T/R
AT24C512B-TH25-B	AT24C512C-XHD-B	Bulk
AT24C512B-TH25-T	AT24C512C-XHD-T	T/R
AT24C512BN-SH-B	AT24C512C-SSHM-B	Bulk
AT24C512BN-SH-T	AT24C512C-SSHM-T	T/R
AT24C512BN-SH25-B	AT24C512C-SSHD-B	Bulk
AT24C512BN-SH25-T	AT24C512C-SSHD-T	T/R
AT24C512BW-SH-B	AT24C512C-SHD-B *	Bulk
AT24C512BW-SH-T	AT24C512C-SHD-T *	T/R
AT24C512BW-SH25-B	AT24C512C-SHD-B	Bulk
AT24C512BW-SH25-T	AT24C512C-SHD-T	T/R
AT24C512BY7-YH-T	AT24C512C-MAHM-T**	T/R
AT24C512BY7-YH25-T	AT24C512C-MAHM-T**	T/R
AT24C512BU2-UU-T	AT24C512C-CUM-T	T/R
AT24C512B-W-11	AT24C512C-WWU11M	Wafer Form

*Due to low demand in EIAJ SOIC, only 2.5V-5.5V version will be offered

**Suggested Replacement, please refer to datasheet for detailed specification.

Attachment B

Top Side Marking

AT24C512C-SSHM-T/B

```

                Seal Year
TOP MARK      | Seal Week
                | | |
|---|---|---|---|---|---|---|---|
  A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|---|
  2   F   C   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

AT24C512C-SSHD-T/B

```

                Seal Year
TOP MARK      | Seal Week
                | | |
|---|---|---|---|---|---|---|---|
  A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|---|
  2   F   C   D                               @
|---|---|---|---|---|---|---|---|
  *           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

AT24C512C-SHD-T/B

```

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