



# PCN / EOL Notification

Product Change Notification Number: CC110701

Notification Date\*: March 1, 2011

<b>Title:</b> INTRODUCTION OF NEW 16K SERIAL EEPROM			
<b>Product Identification:</b> All Wafers and Packages of the AT24C16B, Industrial Temperature Grade (-40C to +85C) Replacement Part Numbers are shown in Attachment A			
<b>Reason for Change:</b>	<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
<b>Change Description:</b> Atmel is introducing a new, optimized-layout Serial EEPROM: AT24C16C.  The NEW AT24C16C (1.7V to 5.5V) will now replace all AT24C16B (1.8V to 5.5V) devices.  The new packaged devices offered with the AT24C16C are as the following: 8-lead JEDEC SOIC (SS): 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-lead XDFN (ME): ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating. 8-lead PDIP (P): ROHS compliant/Lead-Free/Halogen-Free/Matte Tin plating 5-lead SOT23 (ST): ROHS compliant/Lead-Free/Halogen-Free/Matte Tin 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			
<b>Identification Method to Distinguish Change:</b> NEW part numbers have been created by adding a "C" to the suffix of the catalogue part number: The AT24C16B shall be identified as the AT24C16C.			
<b>Qualification Data:</b>	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable
<b>Samples:</b>	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable
<b>Quantifiable Impact on Quality &amp; Reliability:</b> The new devices are a form, fit and function equivalent of the current devices, which meet all databook specifications.			
<b>Forecasted Availability Date:</b> Now			
<b>Last Time Buy Date:</b> August 31, 2011			
<b>Last Ship Date:</b> February 28, 2012			
<i>*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).</i>			
<b>Atmel Contact:</b> <a href="mailto:pcnadm@atmel.com">pcnadm@atmel.com</a>			

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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 PCN. 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
AT24C16B-PU	AT24C16C-PUM	
AT24C16B-TH-B	AT24C16C-XHM-B	Bulk
AT24C16B-TH-T	AT24C16C-XHM-T	T/R
AT24C16BN-SH-B	AT24C16C-SSHM-B	Bulk
AT24C16BN-SH-T	AT24C16C-SSHM-T	T/R
AT24C16BY6-YH-T	AT24C16C-MAHM-T	T/R
AT24C16BU3-UU-T	AT24C16C-CUM-T	T/R
AT24C16B-TSU-T	AT24C16C-STUM-T	T/R
New Part #	AT24C16C-MEHM-T	T/R
AT24C16B-W-11	AT24C16C-WWU11M	Wafer Form
AT24C16B-W-27	AT24C16C-WWU27M	Wafer Form

### Attachment B

**8 lead SOIC**  
3 Rows of 8 Characters

**8 lead TSSOP**  
3 Rows  
2 of 6 and 1 of 7 Characters

**8 lead XDFN - 1.8x2.2mm**  
2 Rows of 3 Characters

**8-ball VFBGA - 1.5x2.0mm**  
2 Rows of 4 Characters

**8 lead UDFN - 2.0x3.0mm**  
3 Rows of 3 Characters

**5 lead SOT-23**  
2 Rows  
1 of 5 and 1 of 4 Characters

**8 lead PDIP**  
3 Rows of 8 Characters

Catalog Number: AT24C16C

Catalog Truncation: 16C

Date Codes			Voltages
Y = Year	M = Month	WW = Work Week of Assembly	Blank: 2.7v min
0: 2010    4: 2014	A: January	02: Week 2	D: 2.5v min
1: 2011    5: 2015	B: February	04: Week 4	L: 1.8v min
2: 2012    6: 2016	" " "	" " "	M: 1.7v min
3: 2013    7: 2017	L: December	52: Week 52	P: 1.5v min
Trace Code			Grade/Lead Finish Material
XX = Trace Code (ATMEL Lot Numbers to Correspond Code) (e.g. XX: AA, AB...YZ, ZZ)			U: Industrial/Matt Tin
Lot Number			H: Industrial/NiPdAu
AAAAAA = ATMEL Wafer Lot Number			Q: Automotive/Matt Tin
Country of Assembly			P: Automotive/NiPdAu
@ = Country of Assembly			ATMEL Truncation
B = PHILIPPINES    W = THAILAND    Q = MALAYSIA    H,Y = CHINA			AT: ATMEL
			ATM: ATMEL
			ATML: ATMEL

Note: Packages are not to scale in comparison to each other.

Package Mark Contact:  
DL-CSO-Assy\_eng@atmel.com

TITLE  
24C16CSM, AT24C16C Standard Marking Information  
for Package Offering

DRAWING NO.  
24C16CSM

REV.  
A

12/20/10