



PCN / EOL Notification

Product Change Notification Number: RC121502

Notification Date*: May 10, 2012

Title: Migration to Marketing Revision Level B of the AT91SAM7SE32

Product Identification:

Current Part Number	New Part Number
AT91SAM7SE32-AU	AT91SAM7SE32B-AU
AT91SAM7SE32-AU-999	AT91SAM7SE32B-AUR
AT91SAM7SE32-CU	AT91SAM7SE32B-CU
AT91SAM7SE32-CU-999	AT91SAM7SE32B-CUR

Reason for Change: ☐ Material / Composition ☒ Design / Firmware ☒ Manufacturing Location
☒ Processing / Manufacturing ☒ Logistics ☐ Quality / Reliability

Change Description:

A complete list of differences between the marketing revision level (MRL) A and B can be found in chapter 43 of the datasheet of the AT91SAM7SE-series with Atmel document reference 6222H.

Multiple errata have been corrected on the ADC, PWM, RTT, SDRAM controller, SPI, SSC, TWI and USART.

The pull-up resistor range has changed slightly as per table 40.2

The ChipID has been incremented to: 0x2728 0341

The product is manufactured in 0.15micron embedded Flash technology in UMC Taiwan.

Identification Method to Distinguish Change:

Marketing Revision Level (MRL) has been incremented on the top side marking to **B**.

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:

None

Forecasted Availability Date: Now

Last Time Buy Date: November 15, 2012

Last Ship Date: May 15, 2013

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PCN / EOL Notification

Product Change Notification Number: **SC121405A (REVISED 05/10/12)** Notification Date*: April 11, 2012
See the Change in Blue Text Below

Title: 2-Mbit DataFlash® (AT45DB021D) Process Geometry Shrink and Device Enhancement

Product Identification:

All wafer and package options of the Industrial Temperature grade (-40°C to +85°C) AT45DB021D

Reason for Change:

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

Change Description:

Atmel has performed a process geometry shrink of the 2-Mbit AT45DB021D DataFlash from 130nm to 110nm. The catalog part number AT45DB021D will be replaced by AT45DB021E (see Table 1). The new AT45DB021E devices are pin-to-pin and functionally backward compatible with the current AT45DB021D devices with the following exceptions and enhancements.

Discontinuance of "legacy commands"

As indicated in previous "D" series datasheet documentation, the "legacy command" opcodes were not recommended for new designs and have been subsequently removed on the new "E" series devices. The following table details the list of "legacy commands" that are no longer supported:

Legacy Command	AT45DB021D Opcode	AT45DB021E Opcode
Buffer 1 Read	54h	n/a
Buffer 2 Read	56h	n/a
Main Memory Page Read	52h	n/a
Continuous Array Read	68h	n/a
Status Register Read	57h	n/a

Extended-VCC Operation

With a growing number of application segments moving to lower supply voltages, Atmel is now introducing next generation devices that meet the needs of these lower voltage ranges that are also used by various MCUs, SoCs, and ASICs. In addition, the operating life of many battery powered applications can be dramatically extended if the application can utilize the full life of each battery cell. To address these requirements, Atmel has designed the AT45DB021E devices to operate over a 1.65V to 3.6V range versus the previous 2.7V to 3.6V range.

Migration to a 5-byte Manufacturer and Device ID

The length of the complete Manufacturer and Device ID string has been extended from 4 bytes to 5 bytes to provide space for additional device information. The ID methodology still complies with the JEDEC standard and now utilizes the Extended Device Information (EDI) field. The Manufacturer and Device ID string changes as follows:

AT45DB021D: 1Fh + 23h + 00h + 00h

AT45DB021E: 1Fh + 23h + 00h + 01h + 00h

"Power of 2" binary page size option

The "power of 2" binary page size option can still be ordered as a factory-configured option. However, the catalog part number suffixes of SL954 and SL955 for the factory-configured option will no longer be used, and the SL954/955 designation will not be marked on the packages. Please refer to Table 1 for the new catalog part number for the factory-programmed "power of 2" binary page size option.

Copper (Cu) bond wire usage

In order to increase manufacturing flexibility and to ensure a long-term continuity of supply, Atmel will manufacture SOIC and DFN packages using both gold (Au) and copper bond (Cu) wires. Atmel reserves the right to ship devices with either gold or copper bond wires.

Identification Method to Distinguish Change:

New catalog part numbers use an "E" suffix for the device revision (AT45DB021D changes to AT45DB021E).

Table 1.

EOL Part Number	Replacement Part Number	Carrier Type
AT45DB021D-MH-T	AT45DB021E-MHN-T	T for T/R
AT45DB021D-MH-Y	AT45DB021E-MHN-Y	Y for Tray
AT45DB021D-MH-T-SL954	no replacement	
AT45DB021D-SH-B	AT45DB021E-SHN-B (AT45DB021E-SSH-N-B is recommended) ¹	B for Bulk
AT45DB021D-SH-T	AT45DB021E-SHN-T (AT45DB021E-SSH-N-T is recommended) ¹	T for T/R
AT45DB021D-SH-T-SL955	AT45DB021E-SHN2B-T (AT45DB021E-SSH-N2B-T is recommended) ¹	T for T/R
AT45DB021D-SSH-B	AT45DB021E-SSH-N-B	B for Bulk
AT45DB021D-SSH-T	AT45DB021E-SSH-N-T	T for T/R
AT45DB021D-SSH-T-SL955	AT45DB021E-SSH-N2B-T	T for T/R
	AT45DB021E-W4U11N ²	Whole Wafer

Notes:

1. Narrow Body SOIC Package (SSH-N) is Recommended, Wide Body SOIC will be supported for legacy designs.

For NEW designs the JEDEC SOIC (Narrow Body) is recommended as the industry is moving to the smaller footprint as customer's reduce overall board space requirements.

2. New offering for AT45DB021E products

Qualification Data:	<input type="checkbox"/> Available	<input checked="" type="checkbox"/> Will be available (mm/dd/yr): 06/29/12	<input type="checkbox"/> Not Applicable
Samples:	<input type="checkbox"/> Available	<input checked="" type="checkbox"/> Will be available (mm/dd/yr): 05/18/12	<input type="checkbox"/> Not Applicable

Quantifiable Impact on Quality & Reliability:

None

Forecasted Availability Date: July 15, 2012

Last Time Buy Date: October 15, 2012

Last Ship Date: April 15, 2013

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Product End-of-Life (EOL) Notification

EOL Number: HE121403

Notification Date*: April 4, 2012

Product Description & Replacement:

Part Number:	Description:	Replacement:
CME8000-DDW	Radio Controlled Clock Receiver	no replacement
CME8000-TLPH	Radio Controlled Clock Receiver	no replacement

Reason for EOL:

Due to low market demand the device will be discontinued.

Last Time Buy Date: October 15, 2012

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Last Ship Date: April 30, 2013

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Product End-of-Life (EOL) Notification

EOL Number: HE121704

Notification Date*: April 30, 2012

Product Description & Replacement:

Part Number	Replacement
ATA6871-TLPW	No replacement
ATA6871-TLQW	No replacement
ATA6871-DK	No replacement

Reason for EOL:

Due to low market demand the devices and associated design kit will be discontinued.

Last Time Buy Date: May 4, 2012

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

Last Ship Date: May 4, 2012

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Product End-of-Life (EOL) Notification

EOL Number: HE121703

Notification Date*: April 30, 2012

Product Description & Replacement:

Part Number	Replacement
B10011S-MFPG1Y	No replacement
B10011S-MFPG3Y	No replacement
T6801-TAQY	No replacement
U4793B-MFPG3Y	No replacement
U4793B-MY	No replacement
U479B-MY	No replacement
U6032B-MFPY	No replacement
U6032B-MFPG3Y	No replacement
U6430B-MY	No replacement
U643B2-MY	No replacement
U6803B-MFPG3Y	No replacement
U6815BM-NFLG3	No replacement
U6815BM-NFLG3Y	No replacement

Reason for EOL: Due to low market demand these devices will be discontinued.

Last Time Buy Date: November 30, 2012

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Last Ship Date: May 31, 2013

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Product End-of-Life (EOL) Notification

EOL Number: HE121701

Notification Date*: April 24, 2012

Product Description & Replacement:

Part Number	Description	Replacement
ATR4257-ILQY	AM/FM Frontend for car radio	no replacement
U4257BM-NFNG3	AM/FM Frontend for car radio	no replacement
U4257BM-NFNG3 19	AM/FM Frontend for car radio	no replacement
T4260-ILQH	AM/FM Frontend for car radio	no replacement
T4260-ILSH	AM/FM Frontend for car radio	no replacement
T4260-DK1	Design-Kit	no replacement

Reason for EOL:

Due to low market demand the devices and associated design-kit will be discontinued.

Last Time Buy Date: October 31, 2012

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Last Ship Date: October 31, 2013

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Product End-of-Life (EOL) Notification

EOL Number: HE121404

Notification Date*: April 4, 2012

Product Description & Replacement:

Product:	Description:	Replacement:
ATR7032-PVPW	Power Amplifier for 802.11b/g WLAN	no replacement
ATR7032-PVQW	Power Amplifier for 802.11b/g WLAN	no replacement
ATR7032-DEV-BOARD	Development Board	no replacement
U4089B-PFNY	Integrated Feature Phone Circuit	no replacement
U4089B-PFNG3Y	Integrated Feature Phone Circuit	no replacement
U4090B-PFNG3Y	Integrated Feature Phone Circuit	no replacement
T4090B-PC	Integrated Feature Phone Circuit	no replacement
U3600BM-NFNY	Single Chip Cordless Phone IC	no replacement

Reason for EOL:

Due to low market demand the aforementioned devices and associated development kits will be discontinued.

Last Time Buy Date: October 31, 2012

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Product End-of-Life (EOL) Notification

EOL Number: HE121402

Notification Date*: April 4, 2012

Product Description & Replacement:

Part Number:	Description:	Replacement:
U2102B-MY	Sensor Controlled Timer (DIP16, tube)	no replacement
U2102B-MFPY	Sensor Controlled Timer (SO16, tube)	no replacement
U2102B-MFPG3Y	Sensor Controlled Timer (SO16, T&R)	no replacement

Reason for EOL:

Due to low market demand the devices will be discontinued.

Last Time Buy Date: October 15, 2012

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Product End-of-Life (EOL) Notification

EOL Number: HE121401

Notification Date*: April 4, 2012

Product Description & Replacement:

Part Number:	Description:	Replacement:
ATR0981-TRHY	Low Noise- and Power Amplifier (300 - 500MHz)	no replacement
ATR0981-TRHY 19	Low Noise- and Power Amplifier (300 - 500MHz)	no replacement
ATR0981-TRUY	Low Noise- and Power Amplifier (300 - 500MHz)	no replacement
ATR0981-TRUY 19	Low Noise- and Power Amplifier (300 - 500MHz)	no replacement
ATR0981-EK	Evaluation Kit	no replacement

Reason for EOL:

Due to low market demand the devices and associated evaluation kit will be discontinued.

Last Time Buy Date: October 15, 2012

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Product End-of-Life (EOL) Notification

EOL Number: HE121301

Notification Date*: April 3, 2012

Product Description & Replacement:

ATR0621P-7FHW	No replacement
ATR0622-EK1	No replacement
ATR0622P-PYQW	No replacement
ATR0635-EK1	No replacement
ATR0635-7KHY 88	No replacement
ATR0635-7KQY 88	No replacement

Reason for EOL:

Low demand

Last Time Buy Date: September 30, 2012

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Product End-of-Life (EOL) Notification

EOL Number: HE121302

Notification Date*: April 3, 2012

Product Description & Replacement:

Part Number:	Description:	Replacement:
ATR4256-TKQY	Frequency Synthesizer for AM/FM car radio	no replacement
ATR4256-TKSY	Frequency Synthesizer for AM/FM car radio	no replacement
ATR4258-ILQH	AM/FM Receiver for car radio	no replacement
ATR4258-ILQH 19	AM/FM Receiver for car radio	no replacement
ATR4258-ILSH	AM/FM Receiver for car radio	no replacement
ATR4258-ILSH 19	AM/FM Receiver for car radio	no replacement

Reason for EOL:

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Product End-of-Life (EOL) Notification

EOL Number: HE121303

Notification Date*: April 3, 2012

Product Description & Replacement:

Part Number:	Description:	Replacement:
U2790B-NFPH	1000MHz Quadrature Modulator	no replacement
U2790B-NFPG3H	1000MHz Quadrature Modulator	no replacement
DEMOBOARD-U2790B	Application Board	no replacement

Reason for EOL:

Due to low market demand the devices and associated development kit will be discontinued.

Last Time Buy Date: September 30, 2012

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

Last Ship Date: March 31, 2013

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Product End-of-Life (EOL) Notification

EOL Number: SE121901

Notification Date*: May 14, 2012

Product Description & Replacement:

All wafer and package options of the Industrial Temperature grade (-40°C to +85°C) AT25DF021. In order to accommodate sockets utilizing the 2-Mbit device (AT25DF021), the 4-Mbit (AT25DF041A) device is being offered as a replacement (see Table 1).

Table 1.

EOL Part Number	Replacement Part Number	Carrier Type
AT25DF021-SSH-B	AT25DF041A-SSH-B	B for Bulk
AT25DF021-SSH-T	AT25DF041A-SSH-T	T for T/R
AT25DF021-SSHF-B	AT25DF041A-SSHF-B	B for Bulk
AT25DF021-SSHF-T	AT25DF041A-SSHF-T	T for T/R
AT25DF021-MH-T	AT25DF041A-MH-T / AT25DF041A-MHF-T	T for T/R
AT25DF021-MH-Y	AT25DF041A-MH-Y / AT25DF041A-MHF-Y	Y for Tray
AT25DF021-MHF-T	AT25DF041A-MHF-T	T for T/R
AT25DF021-MHF-Y	AT25DF041A-MHF-Y	Y for Tray

Reason for EOL:

In the recent years, Atmel followed many other leading semiconductor suppliers and transitioned into a "fab-lite" company in order to better serve its customers. With a "fab-lite" approach, Atmel can develop products on leading-edge processes and have access to long-term, stable wafer supplies from some of the industry's largest, most advanced, and most versatile foundries. In optimizing the "fab-lite" transition, Atmel evaluated all of its foundry suppliers to determine which foundries could provide Atmel with the best path forward in terms of advanced technology access, long-term supply agreements, highest quality, future wafer capacity, and wafer costs. As such, it was determined that certain foundries for Flash memories were more strategic than others, and as a result, Atmel has exited from one of its Flash memory foundries.

The exit from this one Flash memory foundry **ONLY** impacts three devices in Atmel's AT25Dxxx series Serial Flash memory portfolio. The devices affected are the AT25DF021 (3-volt, 2-Mbit), AT25DF161 (3-volt, 16-Mbit), and AT25DQ161 (3-volt, 16-Mbit Quad-I/O). Unfortunately, Atmel does not have immediate replacements for these devices, and at this time, we do not have a schedule for when replacement devices could be developed. Therefore, Atmel would like to work with its customers on possible alternative solutions such as an alternate memory density (such as the 25DF041A as seen in Table 1) or an alternate device like Atmel's AT45Dxxx series DataFlash memories.

Atmel's DataFlash family (AT45Dxxx products) will continue to support ALL densities of 1-Mbit and above.

Last Time Buy Date: November 14, 2012

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Last Ship Date: May 14, 2013

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PCN / EOL Notification

Product Change Notification Number: SC121305

Notification Date*: April 5, 2012

Title: 16-Mbit Serial Flash (AT25DF161) Process Geometry Shrink and Device Enhancement

Product Identification:

All package options of the Industrial Temperature grade (-40°C to +85°C) AT25DF161

Reason for Change:	<input checked="" type="checkbox"/> Material / Composition	<input checked="" type="checkbox"/> Design / Firmware	<input type="checkbox"/> Manufacturing Location
	<input checked="" type="checkbox"/> Processing / Manufacturing	<input type="checkbox"/> Logistics	<input type="checkbox"/> Quality / Reliability

Change Description:

Atmel has performed a process geometry shrink of the 16-Mbit AT25DF161 Serial Flash from 130nm to 110nm. The catalogue part number AT25DF161 will be replaced by AT25DL161 (see Table 1). The new AT25DL161 devices are pin-to-pin compatible with the current AT25DF161 devices with the following exceptions and enhancements.

Discontinuance of wide body SOIC and 9-ball BGA packages

The wide body SOIC and 9-ball BGA package offerings are being discontinued due to low customer demand.

Minimum VCC reduction

With a growing number of application segments that are moving to lower supply voltages, Atmel is now introducing the next generation of devices to meet the needs of these lower voltage ranges that are also more common with various MCUs, SoCs, and ASICs. The new 25DL161 will have a VCC voltage range reduced from 2.7V-3.6V to 1.65V-1.95V to address this growing market. In order to accommodate applications that may still need 2.7V VCC requirements, the 25DF321A device is offered as a replacement (see Table 2).

Copper (Cu) bond wire usage

In order to increase manufacturing flexibility and to ensure a long-term continuity of supply, Atmel will manufacture SOIC and DFN packages using both gold (Au) and copper bond (Cu) wires. Atmel reserves the right to ship devices with either gold or copper bond wires.

Identification Method to Distinguish Change:

New catalog part numbers use "DL" for device revision (AT25DF161 changes to AT25DL161).

Table 1.

EOL Part Number	Replacement Part Number ²	Carrier Type
AT25DF161-SH-B	No replacement. (AT25DL161-SSHN-B is recommended) ¹	B for Bulk
AT25DF161-SH-T	No replacement. (AT25DL161-SSHN-T is recommended) ¹	T for T/R
AT25DF161-SSH-B	AT25DL161-SSHN-B	B for Bulk
AT25DF161-SSH-T	AT25DL161-SSHN-T	T for T/R
AT25DF161-SSHF-B	AT25DL161-SSHN-B	B for Bulk
AT25DF161-SSHF-T	AT25DL161-SSHN-T	T for T/R
AT25DF161-CCU	AT25DL161-UUN-T ²	T for T/R
AT25DF161-MH-T	AT25DL161-MHN-T	T for T/R
AT25DF161-MH-Y	AT25DL161-MHN-Y	Y for Tray
AT25DF161-MHF-T	AT25DL161-MHN-T	T for T/R

Notes:

1. Narrow SOIC Package is Recommended, Wide Body SOIC will be obsoleted in future
2. Offering a 8-ball dBGAs as replacement, please review datasheet on package outline
3. Please reference Datasheet for further details as Vcc operation has reduced from (2.7V - 3.6V) to (1.65V - 1.95V)

Table 2.

EOL Part Number	Replacement Part Number ²	Carrier Type
AT25DF161-SH-B	AT25DF321A-SH-B	B for Bulk
AT25DF161-SH-T	AT25DF321A-SH-T	T for T/R
AT25DF161-SSH-B	No replacement. (AT25DF321A-SH-B is recommended) ¹	B for Bulk
AT25DF161-SSH-T	No replacement. (AT25DF321A-SH-T is recommended) ¹	T for T/R
AT25DF161-SSHF-B	NA	
AT25DF161-SSHF-T	NA	
AT25DF161-CCU	AT25DF321A-CCU	T for T/R
AT25DF161-MH-T	AT25DF321A-MH-T	T for T/R
AT25DF161-MH-Y	AT25DF321A-MH-Y	Y for Tray
AT25DF161-MHF-T	NA	

Notes:

1. 25DF321A is only available in the EIAJ SOIC, AT25DF321A-SH-B or AT25DF321A-SH-T
2. Please reference Datasheet for further details

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: None			

Forecasted Availability Date: Now
Last Time Buy Date: September 30, 2012
Last Ship Date: March 30, 2013

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PCN / EOL Notification

Product Change Notification Number: HC121304

Notification Date*: April 6, 2012

Title: Wafer Fab Transfer to Atmel Colorado Springs for the ATA8401/2/3

Product Identification:

ATA8401-6AQY 66, ATA8402-6AQY 66, ATA8403-6AQY 66

Reason for Change:

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

Change Description:

Atmel has released the AT45.1K technology for its wafer fab in Colorado Springs, USA. With the release, Atmel is transferring the ATA8401/2/3 products to Colorado Springs as its front end supply to replace Telefunken Semiconductors GmbH & Co KG. The products manufactured in Colorado Springs will be compatible in form, fit and function. The electrical characteristics as given in the datasheet remain unchanged.

Identification Method to Distinguish Change:

New part numbers have been created

Old Part Number	New Part Number
ATA8401-6AQY 66	ATA8401C-6AQY 66
ATA8402-6AQY 66	ATA8402C-6AQY 66
ATA8403-6AQY 66	ATA8403C-6AQY 66

Qualification Data:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable
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Samples:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable
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Quantifiable Impact on Quality & Reliability:

None

Forecasted Availability Date: July 1, 2012

Last Time Buy Date: September 30, 2012 (ATA8401-6AQY 66, ATA8402-6AQY 66, ATA8403-6AQY 66)

Last Ship Date: March 31, 2013 (ATA8401-6AQY 66, ATA8402-6AQY 66, ATA8403-6AQY 66)

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Company: Name: Title: Date: Email Address: Location: Comments:	
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PCN / EOL Notification

Product Change Notification Number: RC121602

Notification Date*: April 23, 2012

Title: Migration to AT91SAM9M10 Revision B			
Product Identification: Ordering code and top side marking <u>Current ordering code:</u> AT91SAM9M10-CU <u>New ordering code:</u> AT91SAM9M10B-CU			
Revision (MRL) on top side marking has been incremented to B. See section 47.3 in the AT91SAM9M10 datasheet (ref 6355E) for further details.			
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: Correction of errata (datasheet SAM9M10 reference 6355E): USB High Speed Host: Packet loss in the UTMI transceiver (section 49.1.9.1 in datasheet) USB High Speed Host and Device port: USB does not startup after power-up (section 49.1.10.1 in datasheet)			
Identification Method to Distinguish Change: see section Product Identification above			
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: None			
Forecasted Availability Date: Now Last Time Buy Date: October 20, 2012 Last Ship Date: April 20, 2013 <i>*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).</i>			
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PCN / EOL Notification

Product Change Notification Number: RC121601

Notification Date*: April 23, 2012

Title: Migration to AT91SAM9G45 Revision B							
Product Identification: Ordering code and top side marking <table><tr><td>Current ordering code</td><td>New ordering code</td></tr><tr><td>AT91SAM9G45-CU</td><td>AT91SAM9G45B-CU</td></tr></table> Revision (MRL) on top side marking has been incremented to B See section 47.3 in the AT91SAM9G45 datasheet (ref 6438I) for further details.				Current ordering code	New ordering code	AT91SAM9G45-CU	AT91SAM9G45B-CU
Current ordering code	New ordering code						
AT91SAM9G45-CU	AT91SAM9G45B-CU						
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: Correction of errata (datasheet SAM9G45 reference 6438I): USB High Speed Host: Packet loss in the UTMI transceiver (section 49.1.9.1 in datasheet) USB High Speed Host and Device port: USB does not startup after power-up (section 49.1.10.1 in datasheet)							
Identification Method to Distinguish Change: See section Product Identification above.							
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: None							
Forecasted Availability Date: Now Last Time Buy Date: October 20, 2012 Last Ship Date: April 20, 2013 <i>*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).</i>							
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PCN / EOL Notification

Product Change Notification Number: CC120603

Notification Date*: April 23, 2012

Title: 1-Kbit SPI interface Automotive Grade (-40C to 125C) Serial EEPROM (AT25010A) Product Layout Optimization and Device Enhancement

Product Identification:

All Packages of the Automotive Temperature Grade (-40C to +125C) AT25010A

Reason for Change:

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

Change Description:

Atmel has optimized the layout of the Serial EEPROM Automotive Temperature Grade AT25010A device (SPI interface, 1-Kbit density). The catalog part number AT25010A will be replaced by AT25010**B** (see Table 1). The new devices are pin-to-pin and functionally backward compatible with the current AT25010A devices with the following exceptions and enhancements.

Minimum VCC reduction

The minimum VCC requirement has been reduced from 2.7V (2.7V to 5.5V) to **2.5V** (2.5V to 5.5V) for the standard devices.

Conversion to Nickel-Palladium-Gold (NiPdAu) lead finish

New devices will be available in the more robust NiPdAu lead finish. The NiPdAu lead finish complies with "green" packaging standards, and all package options remain RoHS compliant and Pb/Halide/Halogen-free. The "P" designation as part of the package designator suffix in the catalog part number identifies the NiPdAu lead finish for Automotive Temperature grade product.

Package material set changes

Atmel assembly subcontractor, Amkor Technology Philippines, SOIC and TSSOP package material sets will change as noted in the following table:

ATP	SOIC		TSSOP	
	From	To	From	To
Die Attach	Ablebond 84-1 LMISR4	Ablebond 8290	Ablebond 8290	NO Change
Wire Diameter	0.8 mil Au	0.6 mil Au	0.8 mil Au	0.6 mil Au
Mold Compound	Sumitomo EME-G700	Nitto-GE900S	Sumitomo EME-G700	Hitachi CEL-8240HF 10P
Lead Finish	Matte Sn	NiPdAu	Matte Sn	NiPdAu

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Atmel assembly subcontractor, UTAC, SOIC and TSSOP package material sets will change as noted in the following table:

UTAC	SOIC		TSSOP	
Material Set	From	To	From	To
Die Attach	Ablebond 2200D	Ablebond 8200T	Ablebond 2200D	Ablebond 8200T
Wire Diameter	0.8 mil Au	NO Change	0.8 mil Au	NO Change
Mold Compound	Sumitomo EME-600	NO Change	Sumitomo EME-G600	NO Change
Lead Finish	Matte Sn	NiPdAu	Matte Sn	NiPdAu

Identification Method to Distinguish Change:

NEW catalog part numbers use "B" suffix for the device revision (AT25010A changes to AT25010B). Please refer to Attachment A for part marking scheme.

Table 1.

EOL Part Number	Replacement Part Number	Package	Carrier Type
AT25010AN-10SQ-2.7 ¹	AT25010B-SSPD-T ³	SOIC	T/R, 4K per reel
AT25010AN-10SQ-2.7 SL383 ²	AT25010B-SSPD-T ³	SOIC	T/R, 4K per reel
AT25010A-10TQ-2.7 ¹	AT25010B-XPD-T ³	TSSOP	T/R, 5K per reel
AT25010A-10TQ-2.7 SL383 ²	AT25010B-XPD-T ³	TSSOP	T/R, 5K per reel

Notes:

1. Bulk will no longer be an ordering option, Tape and Reel ordering only offered
2. SL383 will be eliminated and replaced with "-T" to denote Tape and Reel
3. Please reference qualification pack for further details

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 checked="" type="checkbox"/> TSSOPs will be available (05/25/12)	<input type="checkbox"/> Not Applicable

Quantifiable Impact on Quality & Reliability:

None

Forecasted Availability Date: Now

Last Time Buy Date: October 13, 2012

Last Ship Date: April 13, 2013

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

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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

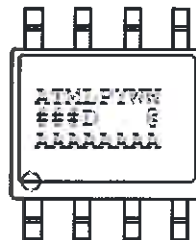
CUSTOMER ACKNOWLEDGEMENT OF RECEIPT: Atmel requests you acknowledge receipt of this PCN / EOL. Please complete and email to the Atmel Contact listed above. In your acknowledgement, you can grant approval or request additional information. **Atmel will deem this change accepted unless specific conditions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

Company: Name: Title: Date: Email Address: Location: Comments:	
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Attachment A

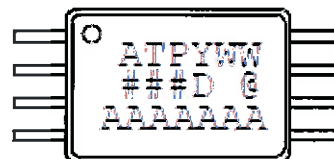
8 lead SOIC

3 Rows of 8 Characters

**8 lead TSSOP**

3 Rows

2 of 6 and 1 of 7 Characters



Catalog Number: AT25010B

Catalog Number: AT25020B

Catalog Number: AT25040B

Catalog Truncation: ### = 51B

Catalog Truncation: ### = 52B

Catalog Truncation: ### = 54B

Date Codes			Voltages
Y = Year	M = Month	WW = Work Week of Assembly	D: 2.5v min
2: 2012 6: 2016	A: January	02: Week 2	
3: 2013 7: 2017	B: February	04: Week 4	
4: 2014 8: 2018			
5: 2015 9: 2019	L: December	52: Week 52	
Trace Code			Grade/Lead Finish Material
XX = Trace Code (ATMEL Lot Numbers to Correspond to Code) (e.g. XX: AA, AB...YZ, ZZ)			P: Automotive/NiPdAu
Lot Number			ATMEL Truncation
AAAAAAA = ATMEL Wafer Lot Number			
Country of Assembly			
Ⓢ = Country of Assembly			AT: ATMEL ATM: ATMEL ATML: ATMEL

2/9/12



Package Mark Contact:
DL-CSD-Asay_eng@atmel.com

TITLE

25010-20-40BAM, AT25010B/AT25020B/AT25040B
Automotive Marking Information for Package Offering

DRAWING NO.

25010-20-40BAM

REV.

5