# 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:** | ☒ Material / Composition | ☒ Design / Firmware | ☐ Manufacturing Location |
|---|---|---|---|
| | ☒ Processing / Manufacturing | ☐ Logistics | ☐ 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.

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**Identification Method to Distinguish Change:**

New catalog part numbers use "**DL**" for device revision (AT25DF161 changes to AT25**DL**161).

Table 1.

| EOL Part Number | Replacement Part Number[3] | 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 dBGA 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:** | ☒ Available | ☐ Will be available (mm/dd/yr): | ☐ Not Applicable |
|---|---|---|---|
| **Samples:** | ☒ Available | ☐ Will be available (mm/dd/yr): | ☐ 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

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

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