

**PCN Number: WC160205**

**Notification Date: January 26, 2016**

**Title: New wafer fabrication facility and die revision for ATmega48PB, ATmega88PB and ATmega168PB**

**Product Identification:**

ATmega48PB-AN	ATmega88PB-AN	ATmega168PB-AN
ATmega48PB-ANR	ATmega88PB-ANR	ATmega168PB-ANR
ATmega48PB-AU	ATmega88PB-AU	ATmega168PB-AU
ATmega48PB-AUR	ATmega88PB-AUR	ATmega168PB-AUR
ATmega48PB-MN	ATmega88PB-MN	ATmega168PB-MN
ATmega48PB-MNR	ATmega88PB-MNR	ATmega168PB-MNR
ATmega48PB-MU	ATmega88PB-MU	ATmega168PB-MU
ATmega48PB-MUR	ATmega88PB-MUR	ATmega168PB-MUR

**Reason for Change:**

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

**Change Description:** The above listed devices will be transferred to TowerJazz Panasonic Semiconductor Co.Ltd. (Japan) wafer fabrication facility (TPSCo) which will manufacture the listed products to the exact same specification as the previous wafer fabrication facility UMC (Taiwan). The assembly site and other materials are unchanged.

Product die revision letter has been updated to reflect the new version:

ATmega48PB → Revision K  
 ATmega88PB → Revision K  
 ATmega168PB → Revision N

Updated datasheet with errata section showing new die revision letter can be found here:  
[http://www.atmel.com/Images/Atmel-42176-ATmega48PB-88PB-168PB\\_Datasheet.pdf](http://www.atmel.com/Images/Atmel-42176-ATmega48PB-88PB-168PB_Datasheet.pdf)

There are no changes to electrical parameters in the datasheet.

New revision samples can be ordered through Atmel Sample Centre by logging on to <https://samples.atmel.com/scripts/samplecenter.dll?atmel?cmd=menu>, lead time about 2 weeks. Specific ordering codes for new die revision samples only are shown in the table below, and are available for sample orders only until the proposed first shipment date. For all production orders, only standard existing ordering codes will be accepted.

Note 1: The **S** in sample ordering codes will not be marked on the package and is only used for sampling purposes.

Note 2: For special part numbers and parts purchased with SL or QS numbers, please contact your Customer Service Representative.

<b>Part number</b>	<b>New Die Revision Sample Ordering Code</b>
ATmega48PB-AN	ATmega48PB-AURS
ATmega48PB-ANR	
ATmega48PB-AU	
ATmega48PB-AUR	
ATmega48PB-MN	ATmega48PB-MURS
ATmega48PB-MNR	
ATmega48PB-MU	
ATmega48PB-MUR	
ATmega88PB-AN	ATmega88PB-AURS
ATmega88PB-ANR	
ATmega88PB-AU	
ATmega88PB-AUR	
ATmega88PB-MN	ATmega88PB-MURS
ATmega88PB-MNR	
ATmega88PB-MU	
ATmega88PB-MUR	
ATmega168PB-AN	ATmega168PB-AURS
ATmega168PB-ANR	
ATmega168PB-AU	
ATmega168PB-AUR	

ATmega168PB-MN	ATmega168PB-MURS
ATmega168PB-MNR	
ATmega168PB-MU	
ATmega168PB-MUR	

**Identification Method to Distinguish Change:**

ATmega48PB and ATmega88PB:

In those products where the die ID is stated on packages, labels or other material, the previous die revisions have 59B02, while the new die revision has 59B11.

ATmega168PB:

In those products where the die ID is stated on packages, labels or other material, the previous die revisions have 59B01, while the new die revision has 59B10.

<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

**Quantifiable Impact on Quality & Reliability:** None.

**Proposed First Ship Date\*:** April 26, 2016

*\*The Proposed First Ship Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.*

**Atmel Contact:** Please contact your Atmel Sales Representative or Distributor for additional information (when replying via e-mail please include the PCN number in subject line).

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**CUSTOMER ACKNOWLEDGEMENT OF RECEIPT:** Atmel requests you acknowledge receipt of this PCN. Please complete and email to [pcnadm@atmel.com](mailto:pcnadm@atmel.com) and 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.**

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**To be completed by customer:**

Approved

Rejected (Please state reason for rejection): \_\_\_\_\_

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

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