



## Product Change Notification

**PCN Number: WC145101**

**Notification Date:** December 19, 2014

<b>Title:</b> Adding Copper Bonding Wire Capability for Selected Microcontrollers			
<b>Product Identification:</b>			
<b>Part number</b>	<b>Part number</b>	<b>Part number</b>	<b>Part number</b>
AT90PWM161-16MN	ATMEGA64M1-MU	ATMEGA32U4-MU	AT89C51IC2-SLRUL
AT90PWM161-16MNR	AT90PWM81-16MF	ATMEGA32U4-MUR	AT89C51IC2-SLSUL
ATMEGA32U2-MU	AT90PWM81-16MN	ATMEGA32U4RC-MU	AT89C51RB2-SLRUL
ATMEGA32U2-MUR	ATTINY167-MU	ATMEGA32U4RC-MUR	AT89C51RB2-SLSUL
AT90USB162-16MU	ATTINY167-MUR	AT89C51IC2-SLRUM	AT89C51RC2-SLRUL
AT90USB162-16MUR	ATTINY87-MU	AT89C51IC2-SLSUM	AT89C51RC2-SLSUL
AT90USB82-16MU	ATTINY87-MUR	AT89C51RB2-SLRUM	AT89C51ED2-SLRUM
AT90USB82-16MUR	ATMEGA16M1-MU	AT89C51RB2-SLSUM	AT89C51ID2-SLRUM
ATMEGA16U2-MU	ATMEGA32M1-MU	AT89C51RC2EDR-SLRUM	AT89C51ID2-SLSUM
ATMEGA16U2-MUR	ATMEGA16U4-MU	AT89C51RC2-SLRUM	AT89C51RD2-SLRUM
ATMEGA8U2-MU	ATMEGA16U4-MUR	AT89C51RC2-SLSUM	AT89C51RB2EBX-SLSUM
ATMEGA8U2-MUR			
<b>Reason for Change:</b>	<input checked="" type="checkbox"/> Material / Composition <input type="checkbox"/> Processing / Manufacturing <input type="checkbox"/> Design / Firmware <input type="checkbox"/> Datasheet		<input type="checkbox"/> Manufacturing Location <input type="checkbox"/> Quality / Reliability <input type="checkbox"/> Logistics <input type="checkbox"/> Other:
<b>Change Description:</b>			
<p>To increase manufacturing flexibility and ensure long-term continuity of supply, Atmel will manufacture devices listed above using both gold (Au) and copper bond (Cu) wires. Atmel reserves the right to ship devices with either gold or copper bond wires. The change does not impact reliability, soldering profiles or electrical characteristics. Qualification data is available upon request.</p> <p>Copper samples can be ordered through Atmel Sample Centre by logging on to <a href="https://samples.atmel.com/scripts/samplecenter.dll?atmel?cmd=menu">https://samples.atmel.com/scripts/samplecenter.dll?atmel?cmd=menu</a>, lead time 4 to 8 weeks.</p> <p>Specific ordering codes for copper 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.</p>			

Part number	Cu Sample Ordering Code	Part number	Cu Sample Ordering Code
AT90PWM161-16MN	AT90PWM161-16MNR	ATMEGA32U4-MU	ATMEGA32U4-MURC
AT90PWM161-16MNR	AT90PWM161-16MNR	ATMEGA32U4-MUR	ATMEGA32U4-MURC
ATMEGA32U2-MU	ATMEGA32U2-MURC	ATMEGA32U4RC-MU	ATMEGA32U4RC-MURC
ATMEGA32U2-MUR	ATMEGA32U2-MURC	ATMEGA32U4RC-MUR	ATMEGA32U4RC-MURC
AT90USB162-16MU	AT90USB162-16MURC	AT89C51IC2-SLRUM	AT89C51IC2-SLRUMC
AT90USB162-16MUR	AT90USB162-16MURC	AT89C51IC2-SLSUM	AT89C51IC2-SLSUMC
AT90USB82-16MU	AT90USB82-16MURC	AT89C51RB2-SLRUM	AT89C51RB2-SLRUMC
AT90USB82-16MUR	AT90USB82-16MURC	AT89C51RB2-SLSUM	AT89C51RB2-SLSUMC
ATMEGA16U2-MU	ATMEGA16U2-MURC	AT89C51RC2EDR-SLRUM	Note2
ATMEGA16U2-MUR	ATMEGA16U2-MURC	AT89C51RC2-SLRUM	AT89C51RC2-SLRUMC
ATMEGA8U2-MU	ATMEGA8U2-MURC	AT89C51RC2-SLSUM	AT89C51RC2-SLSUMC
ATMEGA8U2-MUR	ATMEGA8U2-MURC	AT89C51IC2-SLRUL	AT89C51IC2-SLRULC
ATMEGA64M1-MU	ATMEGA64M1-MUC	AT89C51IC2-SLSUL	AT89C51IC2-SLSULC
AT90PWM81-16MF	AT90PWM81-16MFC	AT89C51RB2-SLRUL	AT89C51RB2-SLRULC
AT90PWM81-16MN	AT90PWM81-16MNC	AT89C51RB2-SLSUL	AT89C51RB2-SLSULC
ATTINY167-MU	ATTINY167-MURC	AT89C51RC2-SLRUL	AT89C51RC2-SLRULC
ATTINY167-MUR	ATTINY167-MURC	AT89C51RC2-SLSUL	AT89C51RC2-SLSULC
ATTINY87-MU	ATTINY87-MURC	AT89C51ED2-SLRUM	AT89C51ED2-SLRUMC
ATTINY87-MUR	ATTINY87-MURC	AT89C51ID2-SLRUM	AT89C51ID2-SLRUMC
ATMEGA16M1-MU	ATMEGA16M1-MUC	AT89C51ID2-SLSUM	AT89C51ID2-SLSUMC
ATMEGA32M1-MU	ATMEGA32M1-MUC	AT89C51RD2-SLRUM	AT89C51RD2-SLRUMC
ATMEGA16U4-MU	ATMEGA16U4-MURC	AT83C51RB2EBX-SLSUM	Note2
ATMEGA16U4-MUR	ATMEGA16U4-MURC		

Note that the **C** in sample ordering codes will not be marked on the package

Note2: For special part# please contact your Customer Service Rep

#### Identification Method to Distinguish Change:

Not applicable

<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 upon request via ATMEL Sample Center ( <a href="http://www.atmel.com/samples">www.atmel.com/samples</a> ) Lead time 4-8 weeks after Receipt of Order	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable

#### Quantifiable Impact on Quality & Reliability:

Not applicable

**Proposed First Ship Date\*:** March 18, 2015

*\*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.**

**To be completed by customer:**

Approved

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

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

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