



## Product Change Notification

Product Change Notification Number: WC120404

Notification Date: February 7, 2012

<b>Title:</b> Change from Gold to Copper Bonding Wire			
<b>Product Identification:</b>			
<b>Part number</b>	<b>Part number</b>	<b>Part number</b>	<b>Part number</b>
ATMEGA168-20AI	ATMEGA328P-MMH	ATMEGA8-16AI	ATMEGA8A-AUR
ATMEGA168-20AU	ATMEGA328P-MMHR	ATMEGA8-16AJ	ATMEGA8A-MU
ATMEGA168-20AUR	ATMEGA328P-MN	ATMEGA8-16AU	ATMEGA8A-MUR
ATMEGA168-20MI	ATMEGA328P-MU	ATMEGA8-16AUR	ATMEGA8L-8AC
ATMEGA168-20MQ	ATMEGA328P-MUR	ATMEGA8-16MC	ATMEGA8L-8AI
ATMEGA168-20MQR	ATMEGA328PV-10AU	ATMEGA8-16MI	ATMEGA8L-8AJ
ATMEGA168-20MU	ATMEGA328PV-10MU	ATMEGA8-16MU	ATMEGA8L-8AU
ATMEGA168-20MUR	ATMEGA48-20AI	ATMEGA8-16MUR	ATMEGA8L-8AUR
ATMEGA168A-AU	ATMEGA48-20AU	ATMEGA88-20AI	ATMEGA8L-8MI
ATMEGA168A-AUR	ATMEGA48-20AUR	ATMEGA88-20AU	ATMEGA8L-8MJ
ATMEGA168A-MMH	ATMEGA48-20MI	ATMEGA88-20AUR	ATMEGA8L-8MU
ATMEGA168A-MMHR	ATMEGA48-20MMH	ATMEGA88-20MI	ATMEGA8L-8MUR
ATMEGA168A-MU	ATMEGA48-20MMU	ATMEGA88-20MU	AT42QT1060-MMU
ATMEGA168A-MUR	ATMEGA48-20MU	ATMEGA88-20MUR	AT42QT1110-AU
ATMEGA168P-20AN	ATMEGA48-20MUR	ATMEGA88A-AU	AT42QT1110-MU
ATMEGA168P-20ANR	ATMEGA48-24AI	ATMEGA88A-AUR	AT42QT1111-AU
ATMEGA168P-20AU	ATMEGA48A-AU	ATMEGA88A-MMH	AT42QT1111-MU
ATMEGA168P-20AUR	ATMEGA48A-AUR	ATMEGA88A-MMHR	AT42QT11C12-MU
ATMEGA168P-20MQ	ATMEGA48A-MMH	ATMEGA88A-MU	AT42QT11C16-MU
ATMEGA168P-20MQR	ATMEGA48A-MMHR	ATMEGA88A-MUR	AT42QT11C17-MU
ATMEGA168P-20MU	ATMEGA48A-MU	ATMEGA88P-20AU	AT42QT11C17X-MU
ATMEGA168P-20MUR	ATMEGA48A-MUR	ATMEGA88P-20AUR	AT42QT12C18-MMU
ATMEGA168PA-AU	ATMEGA48P-20AU	ATMEGA88P-20MU	AT42QT12C19-AU
ATMEGA168PA-AUR	ATMEGA48P-20AUR	ATMEGA88P-20MUR	AT42QT12C23-MMU
ATMEGA168PA-MMH	ATMEGA48P-20MMU	ATMEGA88PA-AN	AT42QT12C31-MMU
ATMEGA168PA-MMHR	ATMEGA48P-20MU	ATMEGA88PA-ANR	AT42QT16C06-MU
ATMEGA168PA-MU	ATMEGA48P-20MUR	ATMEGA88PA-AU	AT42QT16C09-AU
ATMEGA168PA-MUR	ATMEGA48PA-AN	ATMEGA88PA-AUR	AT42QT16C09-AUR
ATMEGA168PV-10AN	ATMEGA48PA-AU	ATMEGA88PA-MMH	AT42QT20C04-MMU
ATMEGA168PV-10AU	ATMEGA48PA-AUR	ATMEGA88PA-MMHR	AT42QT2160-MMU
ATMEGA168PV-10AUR	ATMEGA48PA-MMH	ATMEGA88PA-MMN	AT42QT2161-MMU
ATMEGA168PV-10MU	ATMEGA48PA-MMHR	ATMEGA88PA-MMNR	AT42QT23C01-MU

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ATMEGA168PV-10MUR	ATMEGA48PA-MMN	ATMEGA88PA-MMU	AT42QT4120-MU
ATMEGA168V-10AI	ATMEGA48PA-MN	ATMEGA88PA-MN	AT42QT4160-MU
ATMEGA168V-10AU	ATMEGA48PA-MNR	ATMEGA88PA-MNR	AT42QT5320-MU
ATMEGA168V-10AUR	ATMEGA48PA-MU	ATMEGA88PA-MU	ATTINY48-AU
ATMEGA168V-10MI	ATMEGA48PA-MUR	ATMEGA88PA-MUR	ATTINY48-AUR
ATMEGA168V-10MQ	ATMEGA48PV-10AU	ATMEGA88PV-10AU	ATTINY48-MMH
ATMEGA168V-10MQR	ATMEGA48PV-10AUR	ATMEGA88PV-10AUR	ATTINY48-MMHR
ATMEGA168V-10MU	ATMEGA48PV-10MMU	ATMEGA88PV-10MU	ATTINY48-MMU
ATMEGA168V-10MUR	ATMEGA48PV-10MU	ATMEGA88PV-10MUR	ATTINY48-MU
ATMEGA328-AU	ATMEGA48PV-10MUR	ATMEGA88V-10AI	ATTINY48-MUR
ATMEGA328-AUR	ATMEGA48V-10AI	ATMEGA88V-10AJ	ATTINY88-AU
ATMEGA328-MMH	ATMEGA48V-10AU	ATMEGA88V-10AU	ATTINY88-AUR
ATMEGA328-MMHR	ATMEGA48V-10AUR	ATMEGA88V-10AUR	ATTINY88-MMH
ATMEGA328-MU	ATMEGA48V-10MI	ATMEGA88V-10MI	ATTINY88-MMHR
ATMEGA328P-20AU	ATMEGA48V-10MMH	ATMEGA88V-10MU	ATTINY88-MMU
ATMEGA328P-20MU	ATMEGA48V-10MMU	ATMEGA88V-10MUR	ATTINY88-MMUR
ATMEGA328P-AN	ATMEGA48V-10MMUR	ATMEGA8A-AN	ATTINY88-MU
ATMEGA328P-ANR	ATMEGA48V-10MU	ATMEGA8A-ANR	ATTINY88-MUR
ATMEGA328P-AU	ATMEGA48V-10MUR	ATMEGA8A-AU	ATTiny48-MMUR
ATMEGA328P-AUR	ATMEGA8-16AC		

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

**Change Description:**

To adapt to new industry standard and to ensure future long term stable supply of products, copper bonding wire will be introduced for assembly of all devices mentioned above. The change will not impact reliability, soldering profiles or electrical characteristics

**Identification Method to Distinguish Change:**

Lot tracking information will be available upon request.

**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

**Proposed First Ship Date\*:** May 1, 2012

\*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:** pcnadm@atmel.com

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**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.**

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