



## Product Change Notification

PCN Number: WC142802

Notification Date: July 23, 2014

**Title:** Adding Copper Bonding Wire Capability for Selected Microcontrollers

### Product Identification:

Part number	Part number	Part number	Part number
AT89LP2052-20PU	ATMEGA88V-10PU	ATTINY84V-10PU	ATMEGA3250PV-10AU
AT89LP4052-20PU	ATMEGA88A-PU	ATTINY84A-PU	ATMEGA325-16MU
AT89LP213-20PU	ATMEGA88P-20PU	ATTINY85-20PU	ATMEGA325A-AUR
AT89LP214-20PU	ATMEGA88PV-10PU	ATTINY85V-10PU	ATMEGA325A-MN
AT89LP216-20PU	ATMEGA88PA-PN	ATTINY861-20PU	ATMEGA325A-MU
AT89S2051-24PU	ATMEGA88PA-PU	ATTINY861V-10PU	ATMEGA325PA-MU
AT89S4051-24PU	ATTINY13-20PU	ATTINY861A-PU	ATMEGA325PV-10AU
AT89LP428-20PU	ATTINY13V-10PU	ATTINY88-PU	ATMEGA325PV-10AUR
AT89LP828-20PU	ATTINY13A-PU	ATMEGA16U4RC-AU	ATMEGA325PV-10MU
ATMEGA168-20PU	ATTINY2313-20PU	ATTiny24A-MF	ATMEGA325V-8MU
ATMEGA168V-10PU	ATTINY2313V-10PU	ATTiny24A-MFR	ATMEGA329P-20MU
ATMEGA168A-PU	ATTINY2313A-PU	ATTiny84A-MF	ATMEGA329P-20MUR
ATMEGA168P-20PU	ATTINY24-20PU	ATTiny84A-MFR	ATMEGA32A-ANR
ATMEGA168PV-10PU	ATTINY24V-10PU	ATTiny25V-10MF	ATMEGA645A-AU
ATMEGA168PA-PN	ATTINY24A-PU	ATTiny25V-10MFR	ATMEGA645A-AUR
ATMEGA168PA-PU	ATTINY25-20PU	ATTiny85-20SF	ATMEGA645A-MU
ATMEGA328P-PN	ATTINY25V-10PU	ATTiny85-20SFR	ATMEGA645V-8MUR
ATMEGA328P-PU	ATTINY26-16PU	ATMega128-16AN	ATMEGA649-16AU
ATMEGA328-PU	ATTINY26L-8PU	ATMega128L-8AN	ATMEGA649-16AUR
ATMEGA48-20PU	ATTINY261A-PU	ATMega324PA-MN	ATMEGA649-16MU
ATMEGA48V-10PU	ATTINY4313-PU	ATMega324PA-MNR	ATMEGA649-16MUR
ATMEGA48A-PU	ATTINY44-20PU	ATMEGA1281V-8MUR	ATMEGA649P-MU
ATMEGA48PA-PN	ATTINY44V-10PU	ATMEGA1284-MU	ATMEGA64A-ANR
ATMEGA48PA-PU	ATTINY44A-PU	ATMEGA1284-MUR	ATTINY261-20MU
ATMEGA48P-20PU	ATTINY45-20PU	ATMEGA164A-MCH	ATTINY43U-SU
ATMEGA48PV-10PU	ATTINY45V-10PU	ATMEGA164PA-ANR	AT42QT2640-AU
ATMEGA8-16PU	ATTINY461-20PU	ATMEGA169A-AU	AT42QT5480-MU
ATMEGA8L-8PU	ATTINY461V-10PU	ATMEGA169A-AUR	AT42QT5480-MU-W
ATMEGA8A-PN	ATTINY461A-PU	ATMEGA169PV-8MCHR	AT42QT1085-MUR
ATMEGA8A-PU	ATTINY48-PU	ATMEGA2561V-8MU	QT113B-ISG
ATMEGA88-20PU	ATTINY84-20PU	ATMEGA2561V-8MUR	

<b>Reason for Change:</b>	<input checked="" type="checkbox"/> Material / Composition	<input type="checkbox"/> Manufacturing Location
	<input 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:**

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.

Copper samples can be ordered through Atmel Sample Centre by logging on to <https://samples.atmel.com/scripts/samplecenter.dll?atmel?cmd=menu>, lead time 4 to 8 weeks.

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.

Part number	Cu Sample Ordering Code	Part number	Cu Sample Ordering Code
AT89LP2052-20PU	AT89LP2052-20PUC	ATTINY84V-10PU	ATTINY84V-10PUC
AT89LP4052-20PU	AT89LP4052-20PUC	ATTINY84A-PU	ATTINY84A-PUC
AT89LP213-20PU	AT89LP213-20PUC	ATTINY85-20PU	ATTINY85-20PUC
AT89LP214-20PU	AT89LP214-20PUC	ATTINY85V-10PU	ATTINY85V-10PUC
AT89LP216-20PU	AT89LP216-20PUC	ATTINY861-20PU	ATTINY861-20PUC
AT89S2051-24PU	AT89S2051-24PUC	ATTINY861V-10PU	ATTINY861V-10PUC
AT89S4051-24PU	AT89S4051-24PUC	ATTINY861A-PU	ATTINY861A-PUC
AT89LP428-20PU	AT89LP428-20PUC	ATTINY88-PU	ATTINY88-PUC
AT89LP828-20PU	AT89LP828-20PUC	ATMEGA16U4RC-AU	ATMEGA16U4RC-AUC
ATMEGA168-20PU	ATMEGA168-20PUC	ATTiny24A-MF	ATTiny24A-MFRC
ATMEGA168V-10PU	ATMEGA168V-10PUC	ATTiny24A-MFR	ATTiny24A-MFRC
ATMEGA168A-PU	ATMEGA168A-PUC	ATTiny84A-MF	ATTiny84A-MFRC
ATMEGA168P-20PU	ATMEGA168P-20PUC	ATTiny84A-MFR	ATTiny84A-MFRC
ATMEGA168PV-10PU	ATMEGA168PV-10PUC	ATTiny25V-10MF	ATTiny25V-10MFRC
ATMEGA168PA-PN	ATMEGA168PA-PNC	ATTiny25V-10MFR	ATTiny25V-10MFRC
ATMEGA168PA-PU	ATMEGA168PA-PUC	ATTiny85-20SF	ATTiny85-20SFRC
ATMEGA328P-PN	ATMEGA328P-PNC	ATTiny85-20SFR	ATTiny85-20SFRC
ATMEGA328P-PU	ATMEGA328P-PUC	ATMega128-16AN	ATMega128-16ANC
ATMEGA328-PU	ATMEGA328-PUC	ATMega128L-8AN	ATMega128L-8ANC
ATMEGA48-20PU	ATMEGA48-20PUC	ATMega324PA-MN	ATMega324PA-MNRC
ATMEGA48V-10PU	ATMEGA48V-10PUC	ATMega324PA-MNR	ATMega324PA-MNRC
ATMEGA48A-PU	ATMEGA48A-PUC	ATMEGA1281V-8MUR	ATMEGA1281V-8MURC
ATMEGA48PA-PN	ATMEGA48PA-PNC	ATMEGA1284-MU	ATMEGA1284-MURC
ATMEGA48PA-PU	ATMEGA48PA-PUC	ATMEGA1284-MUR	ATMEGA1284-MURC
ATMEGA48P-20PU	ATMEGA48P-20PUC	ATMEGA164A-MCH	ATMEGA164A-MCHC

ATMEGA48PV-10PU	ATMEGA48PV-10PUC	ATMEGA164PA-ANR	ATMEGA164PA-ANRC
ATMEGA8-16PU	ATMEGA8-16PUC	ATMEGA169A-AU	ATMEGA169A-AURC
ATMEGA8L-8PU	ATMEGA8L-8PUC	ATMEGA169A-AUR	ATMEGA169A-AURC
ATMEGA8A-PN	ATMEGA8A-PNC	ATMEGA169PV-8MCHR	ATMEGA169PV-8MCHRC
ATMEGA8A-PU	ATMEGA8A-PUC	ATMEGA2561V-8MU	ATMEGA2561V-8MURC
ATMEGA88-20PU	ATMEGA88-20PUC	ATMEGA2561V-8MUR	ATMEGA2561V-8MURC
ATMEGA88V-10PU	ATMEGA88V-10PUC	ATMEGA3250PV-10AU	ATMEGA3250PV-10AUC
ATMEGA88A-PU	ATMEGA88A-PUC	ATMEGA325-16MU	ATMEGA325-16MUC
ATMEGA88P-20PU	ATMEGA88P-20PUC	ATMEGA325A-AUR	ATMEGA325A-AURC
ATMEGA88PV-10PU	ATMEGA88PV-10PUC	ATMEGA325A-MN	ATMEGA325A-MNC
ATMEGA88PA-PN	ATMEGA88PA-PNC	ATMEGA325A-MU	ATMEGA325A-MUC
ATMEGA88PA-PU	ATMEGA88PA-PUC	ATMEGA325PA-MU	ATMEGA325PA-MUC
ATTINY13-20PU	ATTINY13-20PUC	ATMEGA325PV-10AU	ATMEGA325PV-10AURC
ATTINY13V-10PU	ATTINY13V-10PUC	ATMEGA325PV-10AUR	ATMEGA325PV-10AURC
ATTINY13A-PU	ATTINY13A-PUC	ATMEGA325PV-10MU	ATMEGA325PV-10MUC
ATTINY2313-20PU	ATTINY2313-20PUC	ATMEGA325V-8MU	ATMEGA325V-8MUC
ATTINY2313V-10PU	ATTINY2313V-10PUC	ATMEGA329P-20MU	ATMEGA329P-20MURC
ATTINY2313A-PU	ATTINY2313A-PUC	ATMEGA329P-20MUR	ATMEGA329P-20MURC
ATTINY24-20PU	ATTINY24-20PUC	ATMEGA32A-ANR	ATMEGA32A-ANRC
ATTINY24V-10PU	ATTINY24V-10PUC	ATMEGA645A-AU	ATMEGA645A-AURC
ATTINY24A-PU	ATTINY24A-PUC	ATMEGA645A-AUR	ATMEGA645A-AURC
ATTINY25-20PU	ATTINY25-20PUC	ATMEGA645A-MU	ATMEGA645A-MUC
ATTINY25V-10PU	ATTINY25V-10PUC	ATMEGA645V-8MUR	ATMEGA645V-8MURC
ATTINY26-16PU	ATTINY26-16PUC	ATMEGA649-16AU	ATMEGA649-16AURC
ATTINY26L-8PU	ATTINY26L-8PUC	ATMEGA649-16AUR	ATMEGA649-16AURC
ATTINY261A-PU	ATTINY261A-PUC	ATMEGA649-16MU	ATMEGA649-16MURC
ATTINY4313-PU	ATTINY4313-PUC	ATMEGA649-16MUR	ATMEGA649-16MURC
ATTINY44-20PU	ATTINY44-20PUC	ATMEGA649P-MU	ATMEGA649P-MUC
ATTINY44V-10PU	ATTINY44V-10PUC	ATMEGA64A-ANR	ATMEGA64A-ANRC
ATTINY44A-PU	ATTINY44A-PUC	ATTINY261-20MU	ATTINY261-20MUC
ATTINY45-20PU	ATTINY45-20PUC	ATTINY43U-SU	ATTINY43U-SUC
ATTINY45V-10PU	ATTINY45V-10PUC	AT42QT2640-AU	AT42QT2640-AUC
ATTINY461-20PU	ATTINY461-20PUC	AT42QT5480-MU	AT42QT5480-MUC
ATTINY461V-10PU	ATTINY461V-10PUC	AT42QT5480-MU-W	AT42QT5480-MU-WC
ATTINY461A-PU	ATTINY461A-PUC	AT42QT1085-MUR	AT42QT1085-MURC
ATTINY48-PU	ATTINY48-PUC	QT113B-ISG	QT113B-ISGC
ATTINY84-20PU	ATTINY84-20PUC		

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\*:** October 23, 2014  
*\*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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**To be completed by customer:**

Approved

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

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