



Product Change Notification

Product Change Notification Number: SC123902

Notification Date: April 5, 2013

Title: Convert MSL3 to MSL1 for QFN Packages

Product Identification:

Part Number	Part Number	Part Number
AT05SC1604R-M	ATMEGA168PA-MU	ATMEGA16U2-MUR
AT05SC4002RF-M	ATMEGA168PA-MUR	ATMEGA32U2-MU
AT05SC4002RF-M11	ATMEGA168PV-10MU	ATMEGA8U2-MU
AT42QT1085-MU	ATMEGA168PV-10MUR	ATXMEGA128A3-MH
AT42QT1085-MUR	ATMEGA168V-10MQR	ATXMEGA128A3-MHR
AT42QT1110-MU	ATMEGA168V-10MU	ATXMEGA128A3U-MH
AT42QT18C09-MU	ATMEGA168V-10MUR	ATXMEGA128D3-MHR
AT42QT5480-MU-W	ATMEGA169P-16MU	ATXMEGA16A4-MH
AT42QT1040-MMH	ATMEGA169PA-MU	ATXMEGA16D4-MH
AT42QT1060-MMU	ATMEGA169PV-8MU	ATXMEGA16D4-MHR
AT42QT1244-MU	ATMEGA169PV-8MUR	ATXMEGA192A3-MH
AT42QT1244X-MU	ATMEGA16A-MU	ATXMEGA192D3-MH
AT42QT2120-MMH	ATMEGA16A-MUR	ATXMEGA192D3-MHR
AT42QT2120-MMHR	ATMEGA16L-8MU	ATXMEGA256A3B-MH
ATQT14C10-ISG	ATMEGA16L-8MUR	ATXMEGA256A3BU-MH
QT60160-ISG	ATMEGA2561-16MU	ATXMEGA256A3-MH
QT60240-ISG	ATMEGA2561V-8MU	ATXMEGA256A3U-MH
AT73C507-MUR	ATMEGA2561V-8MUR	ATXMEGA256A3U-MHR
AT73C508-MUR	ATMEGA32-16MU	ATXMEGA256D3-MH
AT73C509-MUR	ATMEGA32-16MUR	ATXMEGA256D3-MHR
AT89LP3240-20MU	ATMEGA324P-20MU	ATXMEGA32A4-MH
AT89LP51ED2-20MU	ATMEGA324P-20MUR	ATXMEGA32A4-MHR
AT89LP51IC2-20MU	ATMEGA324PA-MU	ATXMEGA32A4U-MH
AT89LP51ID2-20MU	ATMEGA324PA-MUR	ATXMEGA32D4-MH
AT89LP51RB2-20MU	ATMEGA324PV-10MU	ATXMEGA32D4-MHR
AT89LP51-20MU	ATMEGA324PV-10MUR	ATXMEGA32D4P-MH
AT89LP52-20MU	ATMEGA325-16MU	ATXMEGA64A3-MH
AT89LP428-20MH	ATMEGA325A-MN	ATXMEGA64A3-MHR
AT89LP828-20MH	ATMEGA325V-8MU	ATXMEGA64A3U-MH
AT89LP6440-20MU	ATMEGA328-MU	ATXMEGA64D3-MH
AT90SC25672RT-M18	ATMEGA328P-MN	ATXMEGA64C3-MH

AT90SC3232CS-M	ATMEGA328P-MU	ATXMEGA64C3-MHR	
AT90SC4816RS-M	ATMEGA328P-MUR	ATTINY44A-MUR	
AT90SC4818RT-M	ATMEGA328P-MMH	ATTINY44V-10MU	
AT90SC6404R-M	ATMEGA328P-MMHR	ATTINY44A-MMH	
AT90SC6432R-M	ATMEGA329P-20MU	ATTINY44A-MMHR	
AT90SC6436RT-M	ATMEGA329PA-MU	ATTINY45-20MUR	
AT90SC6464C-M	ATMEGA329PA-MUR	ATTINY45V-10MU	
AT90SC6464C-M17	ATMEGA329PV-10MU	ATTINY45-20MU	
AT90SC6464C-M19	ATMEGA329PV-10MUR	ATTINY461-20MUR	
AT90SC7272C-M	ATMEGA329V-8MU	ATTINY461A-MU	
AT90SC9616RC-M	ATMEGA329V-8MUR	ATTINY461V-10MU	
AT90USB162-16MU	ATMEGA329-16MU	ATTINY48-MU	
AT90USB162-16MUR	ATMEGA329A-MU	ATTINY48-MUR	
AT91SAM7S128C-MU	ATMEGA32A-MU	ATTINY828-MU	
AT91SAM7S128C-MU-999	ATMEGA32A-MUR	ATTINY828R-MU	
AT91SAM7S256C-MU	ATMEGA32L-8MU	ATTINY84-20MU	
AT91SAM7S256-MU	ATMEGA32L-8MUR	ATTINY84A-MUR	
AT91SAM7S321-MU	ATMEGA48-20MU	ATTINY84V-10MU	
AT91SAM7S32B-MU	ATMEGA48-20MUR	ATTINY84V-10MUR	
AT91SAM7S512B-MU	ATMEGA48A-MU	ATTINY861-20MU	
AT91SAM7S512B-MU-999	ATMEGA48P-20MU	ATTINY861-20MUR	
AT91SAM7S64C-MU	ATMEGA48PA-MU	ATTINY861A-MU	
AT91SAM7S64C-MU-999	ATMEGA48PA-MUR	ATTINY861V-10MU	
ATSAM3N00BA-MU	ATMEGA48PV-10MU	ATTINY88-MU	
ATSAM3N0AA-MU	ATMEGA48V-10MU	ATTINY88-MUR	
ATSAM3N0BA-MU	ATMEGA48V-10MUR	ATTINY48-MMU	
ATSAM3N1BB-MU	ATMEGA64-16MU	ATTINY84A-MMH	
ATSAM3S1BA-MU	ATMEGA64-16MUR	ATTINY84A-MMHR	
ATSAM3S4BA-MU	ATMEGA644-20MU	ATTINY88-MMH	
ATSAM3S8BA-MU	ATMEGA644A-MU	ATTINY88-MMHR	
ATSAM4S16BA-MU	ATMEGA644P-20MU	ATTINY88-MMU	
ATSAM4S16BA-MUR	ATMEGA644P-20MUR	ATTINY88-MMUR	
ATSAM4S8BA-MU	ATMEGA644PA-MU	ATTINY13A-MMU	
ATMSL1060AW	ATMEGA644PA-MUR	ATTINY13A-MMUR	
ATMSL1060AW-R	ATMEGA644PV-10MU	ATTINY13V-10MMUR	
ATMSL1061AV	ATMEGA644PV-10MUR	ATTINY13-20MU	
ATMSL1061AV-R	ATMEGA644V-10MU	ATTINY13A-MU	
ATMSL1064AW	ATMEGA645A-MU	ATTINY13A-MUR	
ATMSL1064AW-R	ATMEGA645P-MU	ATTINY13V-10MU	

AT58A88C-02	ATMEGA645V-8MU	ATTINY1634-MU	
AT58A88F-02	ATMEGA649-16MU	ATTINY1634R-MU	
AT8358402-UML2T	ATMEGA649A-MUR	ATTINY1634R-MUR	
AT88RF1354-ZU	ATMEGA64A-MU	ATTINY2313-20MU	
ATMEGA1281-16MU	ATMEGA64A-MUR	ATTINY2313-20MUR	
ATMEGA128-16MU	ATMEGA64L-8MQ	ATTINY2313A-MU	
ATMEGA1281V-8MU	ATMEGA64L-8MU	ATTINY2313A-MUR	
ATMEGA1281V-8MUR	ATMEGA64L-8MUR	ATTINY2313V-10MU	
ATMEGA1284-MU	ATMEGA8-16MU	ATTINY2313V-10MUR	
ATMEGA1284P-MU	ATMEGA8515L-8MU	ATTINY24-20MU	
ATMEGA1284P-MUR	ATMEGA8535-16MU	ATTINY24-20MUR	
ATMEGA128A-MU	ATMEGA8535L-8MU	ATTINY24A-MU	
ATMEGA128A-MUR	ATMEGA8535L-8MUR	ATTINY24A-MUR	
ATMEGA128L-8MU	ATMEGA88-20MU	ATTINY24V-10MU	
ATMEGA128L-8MUR	ATMEGA88-20MUR	ATTINY24V-10MUR	
ATMEGA16-16MU	ATMEGA88A-MU	ATTINY25-20MU	
ATMEGA16-16MUR	ATMEGA88A-MUR	ATTINY25-20MUR	
ATMEGA162-16MU	ATMEGA88PA-MU	ATTINY25V-10MU	
ATMEGA162V-8MU	ATMEGA88PA-MUR	ATTINY261-20MU	
ATMEGA164A-MU	ATMEGA88PV-10MU	ATTINY261A-MU	
ATMEGA164P-20MU	ATMEGA88PV-10MUR	ATTINY261V-10MU	
ATMEGA164PA-MU	ATMEGA88V-10MU	ATTINY261V-10MUR	
ATMEGA164PA-MUR	ATMEGA88V-10MUR	ATTINY26L-8MU	
ATMEGA164PV-10MU	ATMEGA8A-MU	ATTINY26L-8MUR	
ATMEGA165PV-8MU	ATMEGA8A-MUR	ATTINY4313-MU	
ATMEGA168-20MU	ATMEGA8L-8MU	ATTINY4313-MUR	
ATMEGA168-20MUR	ATMEGA8L-8MUR	ATTINY44-20MU	
ATMEGA168A-MU	ATMEGA48PA-MMH	ATTINY44-20MUR	
ATMEGA168A-MUR	ATMEGA16U2-MU	ATTINY44A-MU	
ATMEGA168P-20MU			
Reason for Change:	<input type="checkbox"/> Material / Composition <input type="checkbox"/> Processing / Manufacturing	<input type="checkbox"/> Design / Firmware <input type="checkbox"/> Logistics	<input type="checkbox"/> Manufacturing Location <input checked="" type="checkbox"/> Quality / Reliability
Change Description: Improved quality level for QFN packages – MSL3 to MSL1 for unlimited hours.			
Identification Method to Distinguish Change: Devices compliant with the MSL 1 standard are packed without dry packing. MSL 3 compliant devices ship dry packed.			
Qualification Data:	<input checked="" type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input type="checkbox"/> Not Applicable

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Samples:	<input type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input checked="" type="checkbox"/> Not Applicable
Quantifiable Impact on Quality & Reliability:			
No impact			
Proposed First Ship Date*: July 5, 2013			
<p><i>*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.</i></p>			
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