



Product Change Notification

PCN Number: WC142801

Notification Date: July 10, 2014

Title: AVR Microcontroller Design Revision

Product Identification:

Part Number	Part Number
ATMEGA2560-16AU	ATMEGA2560-16AUR
ATMEGA2560-16CU	ATMEGA2560-16CUR
ATMEGA2560V-8AU	ATMEGA2560V-8AUR
ATMEGA2560V-8CU	ATMEGA2560V-8CUR
ATMEGA2561-16AU	ATMEGA2561-16AUR
ATMEGA2561-16MU	ATMEGA2561-16MUR
ATMEGA2561V-8AU	ATMEGA2561V-8AUR
ATMEGA2561V-8MU	ATMEGA2561V-8MUR

Reason for Change:

- ☐ Material / Composition
☐ Processing / Manufacturing
☐ Design / Firmware
☐ Datasheet

- ☐ Manufacturing Location
☒ Quality / Reliability
☐ Logistics
☐ Other:

Change Description:

To optimize device manufacturing yield, Atmel has introduced new design revisions of the AVR Microcontrollers listed in the above table. The new die revision is form, fit and function equivalent to the current die revision. Electrical characteristics meet the same specifications as the previous revision, with exception of ADC in differential mode with 200x gain that does not work.

New die revision samples will be delivered in T&R only and can be ordered through Atmel Sample Centre by logging on to <https://samples.atmel.com/scripts/samplecenter.dll?atmel?cmd=menu>

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.

Part Number	New die revision sample ordering code
ATMEGA2560-16AUR	ATMEGA2560-16AURK
ATMEGA2560-16CUR	ATMEGA2560-16CURK
ATMEGA2560V-8AUR	ATMEGA2560V-8AURK
ATMEGA2560V-8CUR	ATMEGA2560V-8CURK
ATMEGA2561-16AUR	ATMEGA2561-16AURK
ATMEGA2561-16MUR	ATMEGA2561-16MURK
ATMEGA2561V-8AUR	ATMEGA2561V-8AURK
ATMEGA2561V-8MUR	ATMEGA2561V-8MURK

Note that the **K** in sample ordering codes will not be marked on the package, and this letter has nothing to do with the die revision. The letter is only used to identify the new revision in our internal sampling system.

Identification Method to Distinguish Change:

New die ID is 355E3 and the revision is F. Device Identification Registers four most significant bits 31 to 28 have been updated from 0x4 (current die rev) to 0x5 (new die rev) to reflect the revision change.

Qualification Data:	☒ Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable
Samples:	☐ Available	☒ Will be available (mm/dd/yr): 07/14/14	☐ Not Applicable

Quantifiable Impact on Quality & Reliability:

None

Proposed First Ship Date*: October 10, 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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CUSTOMER ACKNOWLEDGEMENT OF RECEIPT: Atmel requests you acknowledge receipt of this PCN. Please complete and email to 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: