



## Product End-of-Life Notification

EOL Number: SE073601

Date\*: September 20, 2007

### Product Description & Replacement:

Atmel is announcing an End of Life for Select Packages of the AT40Kxxx [5 V FPGA] and the AT40KxxxAL [3.3 V FPGA] Families. The suggested replacements are indicated in the Table below. As indicated in the Table, select speed grade parts and packages will continue to be offered. Fully Green RoHS compliant packages are now available and customers are requested to transition from Pb based packaged parts to the environmental friendly Green packages which also meet the Industrial temperature grade.

Obsolete FPGA Device	Suggested Replacement
AT40K05-2AJC, -2AJI [84-pin PLCC package]	AT40K05-2BQC <sup>1</sup> or AT40K05AL-1BQU <sup>1</sup> (3.3 V)
AT40K05-2CQC, -2CQI [160-pin PQFP package]	AT40K05-2BQC <sup>1</sup> or AT40K05AL-1BQU <sup>1</sup> (3.3 V)
AT40K05-2RQC, -2RQI [100-pin PQFP package]	AT40K05-2BQC <sup>1</sup> or AT40K05AL-1BQU <sup>1</sup> (3.3 V)
AT40K05-2DQC, -2DQI [208-pin PQFP package]	AT40K05-2BQC <sup>1</sup> or AT40K05AL-1BQU <sup>1</sup> (3.3 V)
AT40K05AL-1AJC, -1AJI [84-pin PLCC package]	AT40K05AL-1BQU <sup>1</sup>
AT40K05AL-1BQC, -1BQI [144-pin LQFP package]	AT40K05AL-1BQU
AT40K05AL-1AQC, -1AQI [100-pin TQFP package]	AT40K05AL-1BQU <sup>1</sup>
AT40K05AL-1DQC, -1DQI [208-pin PQFP package]	AT40K05AL-1BQU <sup>1</sup> or AT40K40AL-1DQU <sup>2</sup>
AT40K10-2AJC, -2AJI [84-pin PLCC package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10-2AQC, -2AQI [100-pin TQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10-2BQC, -2BQI [144-pin LQFP package]	AT40K10AL-1BQU
AT40K10-2CQC, -2CQI [160-pin PQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10-2EQC, -2EQI [240-pin PQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10-2RQC, -2RQI [100-pin PQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10AL-1AJC, -1AJI [84-pin PLCC package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10AL-1AQC, -1AQI [100-pin TQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10AL-1BQC, -1BQI [144-pin LQFP package]	AT40K10AL-1BQU
AT40K10AL-1CQC, -1CQI [160-pin PQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K10AL-1DQC, -1DQI [208-pin PQFP package]	AT40K10AL-1BQU <sup>1</sup> or AT40K40AL-1DQU <sup>2</sup>
AT40K10AL-1EQC, -1EQI [240-pin PQFP package]	AT40K10AL-1BQU <sup>1</sup>
AT40K20-2BGC, -2BGI [352- BGA package]	AT40K20AL-1BQU <sup>1</sup>
AT40K20-2BQC [144-pin LQFP package]	AT40K20AL-1BQU
AT40K20-2CQC, -2CQI [160-pin PQFP package]	AT40K20AL-1BQU <sup>1</sup>
AT40K20-2DQC [208-pin PQFP package]	AT40K20-2DQI
AT40K20-2FQC, -2FQI [304-PQFP package]	AT40K20AL-1BQU <sup>1</sup>
AT40K20AL-1AGC [225-pin BGA package]	AT40K20AL-1BQU <sup>1</sup>

AT40K20AL-1AJC, -1AJI [84-pin PLCC package]	AT40K20AL-1BQU <sup>1</sup>
AT40K20AL-1AQC, -1AQI [100-pin TQFP]	AT40K20AL-1BQU <sup>1</sup>
AT40K20AL-1BGC [352-pin BGA]	AT40K20AL-1BQU <sup>1</sup>
AT40K20AL-1CQC [160-pin PQFP]	AT40K20AL-1BQU <sup>1</sup>
AT40K20AL-1DQC, -1DQI [208-pin PQFP package]	AT40K20AL-1BQU <sup>1</sup> or or AT40K40AL-1DQU <sup>2</sup>
AT40K20AL-1EQC [240-pin PQFP package]	AT40K20AL-1BQU <sup>1</sup>
AT40K20AL-1FQC [304-pin PQFP package]	AT40K20AL-1BQU <sup>1</sup>
AT40K40-2BGC, -2BGI [352- BGA package]	AT40K40AL-1BQU <sup>1</sup>
AT40K40-2BQC, -2BQI [144-pin LQFP package]	AT40K40AL-1BQU
AT40K40-2DQC, -2DQI [208-pin PQFP package]	AT40K40AL-1DQU
AT40K40-2EQC, -2EQI [240-pin PQFP package]	AT40K40AL-1BQU <sup>1</sup> or AT40K40AL-1DQU <sup>1</sup>
AT40K40-2FQC -2FQI [304-PQFP package]	AT40K40AL-1BQU or AT40K40AL-1DQU
AT40K40AL-1BQC, -1BQI [144-pin LQFP package]	AT40K40AL-1BQU
AT40K40AL-1BGC [352-pin BGA package]	AT40K40AL-1BQU <sup>1</sup>
AT40K40AL-1CGC [432-pin BGA package]	AT40K40AL-1BQU <sup>1</sup>
AT40K40AL-1DQC, -1DQI [208-pin PQFP package]	AT40K40AL-1DQU
AT40K40AL-1EQC, -1EQI [240-pin PQFP package]	AT40K40AL-1BQU <sup>1</sup> or AT40K40AL-1DQU <sup>1</sup>
AT40K40AL-1FQC [304-pin PQFP package]	AT40K40AL-1BQU <sup>1</sup> or AT40K40AL-1DQU <sup>1</sup>

- Note:** 1. The suggested replacement is not Pin compatible.  
2. The suggested replacement is available in the same package but the FPGA is higher density.

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**Reason for EOL:**

Lack of demand and elimination of low volume package offerings.

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**Last Time Buy Date:** March 20, 2008

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\* All orders placed after the notification date are **non-cancellable** and **non-returnable (NCNR)**.

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**Last Ship Date:** September 20, 2008

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