



Simtek Corporation

Product Change Notification [PCN]

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PCN # **10025**

PCN Status **Final**

PCN Date **September 20, 2005**

PCN Type **Product Information**

PCN Title **STK17TA8 1M RTC: Product and Datasheet Changes**

PCN Detail
A number of improvements are being implemented on the 1M RTC STK17TA8 to optimize overall performance of the device.
At the same time a number of data sheet changes have been made [revision 1.2 of document ML0025 on Simtek website]. Details are listed on page 2 of this PCN.

Internal qualification procedures will be completed by end September 2005, when production release is scheduled.

Background Reason for Change Issue Addressed
These changes are the result of extensive review and are intended to improve overall performance, speed distribution and production yield. The changes provide a permanent solution to a number of issues previously addressed through firmware modifications.

Product[s] Affected
STK17TA8 1M RTC in the 48 lead 300 mil SSOP package, all speed grades at Commercial and Industrial temperature range. This product will be identified as revision "B", which will be included in line one of the topside package mark.

Additional Information Respond By
Comparative characterization and qualification data will be published on the Simtek website and will be available on request.

For more information please contact your Simtek representative or the Simtek Sales organization at salesinquiry@simtek.com.

Samples Available From **21 September 2005**

Target Product Availability Date **30 September 2005**

Confirmed Availability Date/Datecode **0532**

Brian Stephens
For Simtek Corporation



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Additional PCN Information [continued from Page 1]

Datasheet Changes

Datasheet changes for the revision B device are implemented in datasheet # ML0025, rev 1.2, as follows:

- * ICC3 from 5mA to 10mA
- * ISB from 2mA to 3mA
- * Soft recall time from 40uS to 50uS.
- * Store Time from 12.5mS to 15mS [Industrial Grade only]
- * 500K Store Cycle Endurance
- * t(OSCS) from 1min to 10sec @ min temp
- * t(OSCS) from 10sec to 5sec @ 25C from power-up
- * C1 from 2.2pF to 0pF [RTC output cap]
- * C2 from 47pF to 56pF [RTC input cap]
- * The 40 pin PDIP package offering [package type "W"] has been removed from the datasheet.