



# Simtek Corporation

## Product Change Notification [PCN]

Home page: <http://www.simtek.com>  
E-mail: [information@simtek.com](mailto:information@simtek.com)

4250 Buckingham Drive, Suite 100  
Colorado Springs CO 80907 USA  
719-531-9444 fax 719-531-9481

PCN # **10032** **00** PCN Status **Final**

PCN Date **January 16, 2006** PCN Type **Product Change**

PCN Title **Datasheet Changes, STK14D88 3V 256K nvSRAM. New datasheet version ML0033 rev 1.4 posted.**

**PCN Detail**  
The following datasheet specification changes have been made affecting the STK14D88 256K 3V nvSRAM group of products:

1. t[recall] is changed from 60us to 50us. This is a correction of a typo error in the previous version of the datasheet.
2. t[ss], previously undefined, is specified at 70us.
3. NV[c], the guaranteed number of store cycle operations, is changed from 1M cycles to 500K cycles.
4. DATA[r], the guaranteed data retention period, is changed from 100 years at unspecified temperature to 20 years at maximum operating temperature.

**Background Reason for Change Issue Addressed**  
t[ss] is the time required between soft sequence commands. This was not previously specified.  
NV[c] is specified at 500K full array store operations. This specification is the maximum required by the large majority of nvSRAM users. Detail of 1M cycle performance is available on request from Simtek.  
DATA[r] specification is now linked directly to the maximum operating temperature, since data retention performance is directly linked to operating temperature. Detail of retention performance at other temperatures within the operating temperature range is available on request.

**Product[s] Affected**  
STK14D88 3V 256K nvSRAM, all package types, speed grades, commercial and industrial temperature ranges.

**Additional Information Respond By**  
Further information is available through normal Simtek sales channels and from Simtek Applications Engineering at [appseng@simtek.com](mailto:appseng@simtek.com)

Samples Available From **01/16/06**

Target Product Availability Date **February 2006**

Confirmed Availability Date/Datecode **0608**

Brian Stephens  
For Simtek Corporation