



Simtek Corporation Product Change Notification [PCN]

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PCN # **10066.1** Type **FINAL** PCN Date **March 05, 2007**

Content Category **Notes on Product Application** Impact **Datasheet Specification**

Product Category **NVSRAM W/RTC** Change Type [JESD46] **MINOR**

PCN Title **Datasheet Changes: STK17TA8 128Kx8 Autostore nvSRAM with Real-Time Clock - Doc ML0025 Rev 1.5**

PCN Detail [page 2: Products page 3: Datasheet changes, Additional Information]
This PCN documents datasheet changes from revision 1.4 to revision 1.5.
Changes are:
Provide more complete ordering information.
Add Package outline drawings.
A number of changes to the currently published product datasheet for the STK17TA8 128Kx8 Autostore nvSRAM with Real-Time Clock are being made. These are listed on page 3 of this PCN.

Background Reason for Change Issue Addressed
A number of specifications have been clarified in the datasheet.
The factory default settings for the registers has been clarified.
Some sections of text have been rewritten to clarify operating requirements.

With the exception of the Interrupt Register settings as defined on page 3, no changes have been made to the design, manufacturing process or screening of currently shipping product. These changes are intended to clarify existing specifications and provide more information on product use and product ordering.

Summary of Product[s] Affected [full listing on Page 2]
STK17TA8 128Kx8 Autostore nvSRAM with Real-Time Clock
All package types
All speed grades
All temperature ranges
All packaging ordering options

Simtek Contacts
Additional information is available via Simtek Applications Engineering at appseng@simtek.com, or contact your Simtek area sales office [see Simtek website www.simtek.com for detail].

Response to this PCN
All responses to this PCN should be addressed to: pcn@simtek.com.
Responses must be received within 30 days of issue of this PCN as indicated below. If no response is received by this date, it will be assumed that the PCN has been accepted.

Respond By Date: **April 4, 2007** Samples Available From **N/A**

Target Product Availability Date **March 2007** Transition Date/Datecode



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SIMTEK PRODUCT AFFECTED BY THIS PCN

All STK17TA8 1M Monolithic RTC Products.
Both Rail and Tape and Reel Packaging.

Part Numbers affected:

STK17TA8-RF25
STK17TA8-RF25I
STK17TA8-RF45
STK17TA8-RF45I
STK17TA8-RF25 TR
STK17TA8-RF25I TR
STK17TA8-RF45 TR
STK17TA8-RF45I TR



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PCN Date: March 5, 2007

CHANGES TO DATASHEET

Include more complete ordering information.
Package outline drawings have been included in each datasheet.
Reformat Entire Document

ABE bit in Interrupt Register no longer supported
Interrupt Register Initializes to 00h instead of 26h
Flag Bits(WDF, AF, PF) Initialize to Zero
W-bit in Flag Register Enables Writes To RTC, Alarm, Calibration, Interrupt, and Flag Registers
Add Tape & Reel Ordering Option
Add Product Ordering Code Listing
Add Package Drawings

Parameter	Old Value	New Value	Notes
IOUT for HSB	No spec	-10 uA	Added as note
tELAX	20, 30 ns	No spec	Replace by tEHAX
tGLAX	20, 30 ns	No spec	Replace by tGHAX
tEHAX	No spec	1 ns	Address hold required
tGHAX	No spec	1 ns	Address hold required
tDELAY Max	No spec	70 us max	
tHLBL	300 ns	No spec	HSB drives low immediately
tSS	70 us min	70 us max	Error in original DS specification

Additional PCN Information [continued from Page 1]

Empty box for additional PCN information.