

# intel® Technical Advisory

TA-687-2

5200 NE Elam Young Parkway  
Hillsboro, OR 97124

April 1, 2005

## SRCU42X and SRCU42E RAID Controllers do not support 1GB memory modules.

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice. The Intel® RAID Controllers **SRCU42X and SRCU42E** may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

### Products Affected

Product Name	Order Code	Description
SRCU42X	SRCU42X	Intel® RAID Controller SRCU42X
SRCU42E	SRCU42E	Intel® RAID Controller SRCU42E

### Description

The RAID Controller SRCU42X and SRCU42E do not support the use of 1GB memory modules due to limitations in memory space mapping within the RAID controller firmware as well as in the supporting RAID management utilities.

### Root Cause

The memory space is currently mapped to accommodate modules up to 512MB capacity; contiguous space is not available to accommodate 1GB memory modules. This contiguous space limitation is present in both RAID controller firmware and RAID management utilities. A significant modification is required to the RAID controller firmware and to the RAID management utilities to remap available memory space; this remapping would require a complete redevelopment of the RAID firmware and utilities as well as a full validation and testing cycle.

### Corrective Action / Resolution

- Intel has determined that it is not feasible to add support for cache memory larger than 512MB for the SRCU42X and SRCU42E controllers due to the extensive software stack modifications required.

Enterprise Platforms & Services Division  
Intel Corporation