



Product Change Notification

108474 - 01

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.

Should you have any issues with the timeline or content of this change, please contact the Intel Representative(s) for your geographic location listed below. No response from customers will be deemed as acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this attached PCN.

Americas Contact: asmo.pcn@intel.com

Asia Pacific Contact: apacgccb@intel.com

Europe Email: eccb@intel.com

Japan Email: jccb.ijkk@intel.com

Copyright © Intel Corporation 2008. Other names and brands may be claimed as the property of others.

Celeron, Centrino, Intel, the Intel logo, Intel Core, Intel NetBurst, Intel NetMerge, Intel NetStructure, Intel SingleDriver, Intel SpeedStep, Intel StrataFlash, Intel Viiv, Intel XScale, Itanium, MMX, Paragon, PDCharm, Pentium, and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Learn how to use Intel Trade Marks and Brands correctly at <http://www.intel.com/intel/legal/tmusage2.htm>.



Product Change Notification

Change Notification #: 108474 - 01
Change Title: Intel(R) IP Network Server NSC2U, PCN 108474-01, Product Discontinuance, Replaced by new product code, new features include: Chassis modifications allowing support for 2.5 inch SATA Hard Drives, support additional rack mount kits, add plastic cap to metal filler, Reason for Revision: Update product codes and MM numbers; incorporate PCN#108531, PCN#108461
Date of Publication: August 28, 2008

Key Characteristics of the Change:

Product Discontinuance

Forecasted Key Milestones:

Last Product Discontinuance Order Date:	Sep 01, 2008
Last Product Discontinuance Shipment Date:	Sep 15, 2008
Availability Date for Product Discontinuance Replacement Product	Sep 22, 2008

Reason for Revision: Update product codes and MM numbers; incorporate PCN#108531, PCN#108461

Description of Change to the Customer:

Chassis modifications allowing support for 2.5 inch SATA Hard Drives

Intel has modified the chassis assembly and the FRUSDR firmware to enable support for 2.5" SATA hard drives. These changes are fully backward compatible with the use of 2.5" SAS hard drives.

This enumerated high level list of changes is followed by detailed sections:

1. Revised the 40mm fan set mounting feature to remove fan vibration from the hot swap drive cage.
2. Revised the 80mm fan set retention feature and the CPU air duct to isolate fan vibration.
3. Revised the FRUSDR firmware to lower the fan speed and minimize fan vibration.
4. Revise the firmware on the LSI 1068 controller to support SATA software RAID.

5. Revise the firmware on the Intel 80333 controller to support SATA hardware RAID.

Details:

1. Revised the 40mm fan set mounting feature to remove fan vibration from the hot swap drive cage.



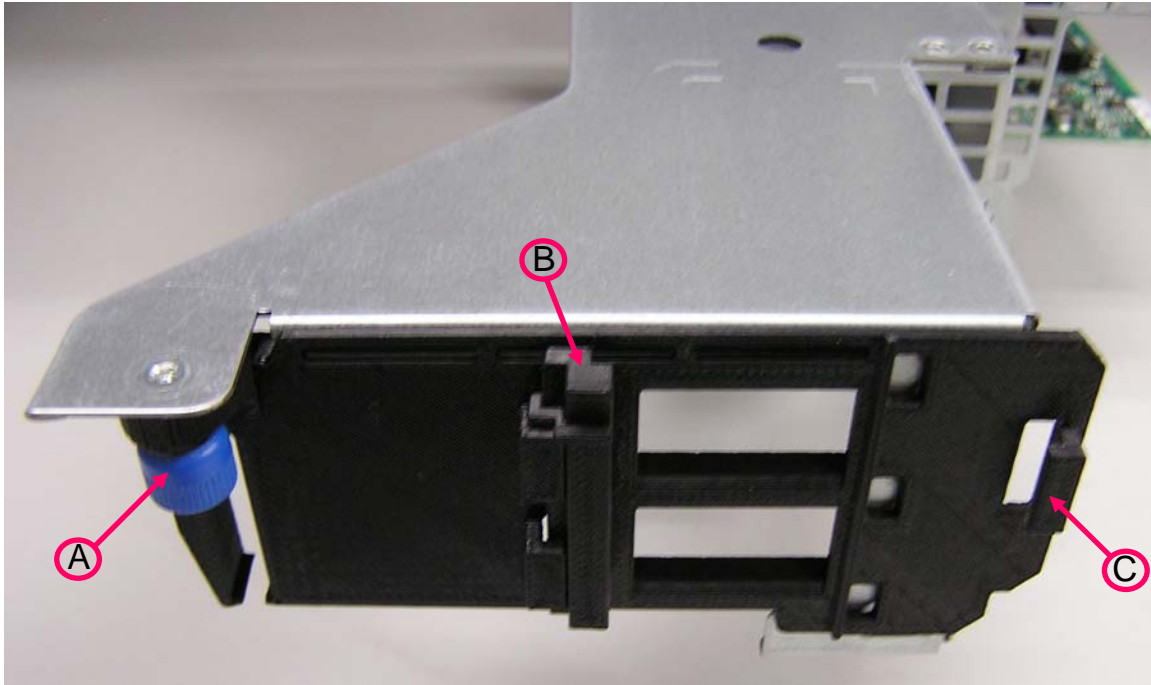
The revised 40mm fan set assembly mounts to the full length PCI board retention bracket and includes vibration dampening rubber grommets.



Revised PCI board retention bracket

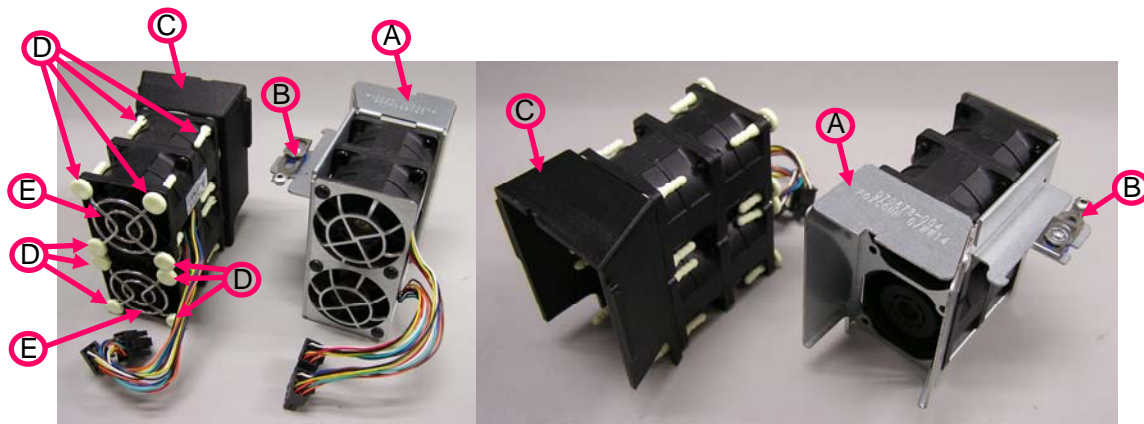
Old PCI board retention bracket

The revised full length PCI board retention bracket includes a "slide-on" feature to retain the 40mm fan baffle. Detail of the revised bracket is in the next section.



Revised PCI board retention bracket

- (A) Mounting screw is the same as on old bracket
- (B) Slide pin retains one side of the 40mm fan baffle
- (C) Lip feature retains the right side of the 40mm fan baffle



Revised 40mm fan module

Old 40mm fan module

Revised 40mm fan module

Old 40mm fan module

- (A) Removed metal housing
- (B) Removed mounting screw feature
- (C) Added plastic mounting/baffle
- (D) Added rubber grommets (color is grey)
- (E) Added wire finger guard

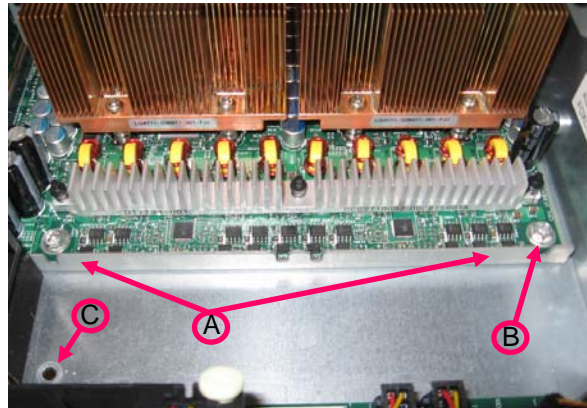
2. Revised the 80mm fan set retention feature and the CPU air duct to isolate fan vibration.



Revised 80mm fan assemblies and revised CPU air duct installed with top cover removed



Old 80mm fans mounting location
(Note: fan module is removed)



Revised 80mm fans mounting location
(Note: fan module is removed)

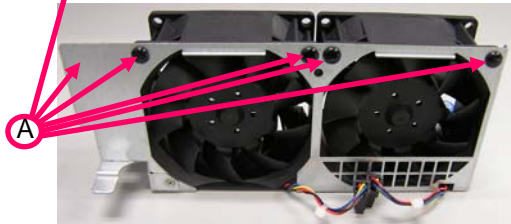
- (A) Added alignment bracket for fans
- (B) Added board/bracket retention screw
- (C) Removed the fan bracket alignment stud



Old 80mm fans (CPU side)



Revised 80mm fan set (CPU side)

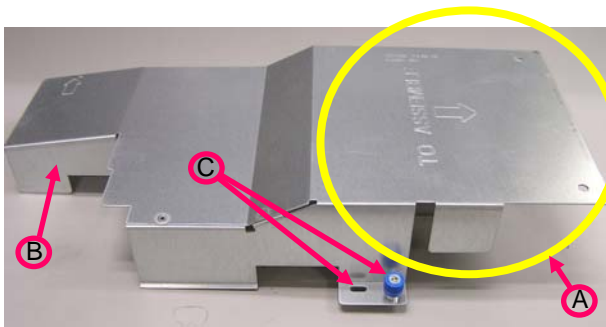


Old 80mm fans (FPIO side)

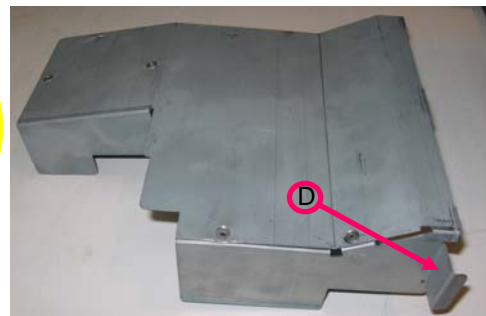


Revised 80mm fan set (FPIO side)

- (A) Removed metal bracket, plastic rivets, and securing screw
- (B) Added rubber grommets on each fan
- (C) Added wire finger guards

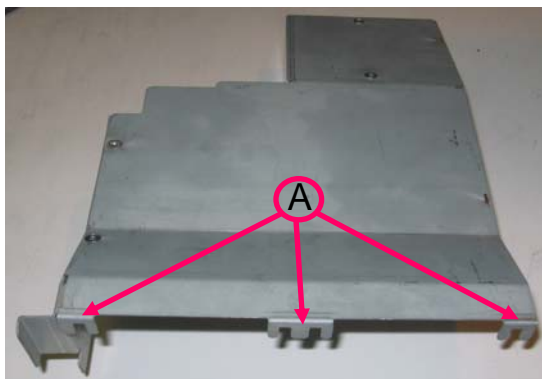


Old processor/memory duct



Revised processor /memory duct

- (A) Removed metal shroud that covered 80mm fans & FPIO board
- (B) Moved baffle wall toward DIMMs creating more space for PCI board
- (C) Removed alignment slot and retention screw
- (D) Added air dam feature to maintain proper air flow



Revised processor /memory duct

- (A) Added fingers to retain 80mm fans

3. Revised the FRUSDR firmware to lower the fan speed and minimize fan vibration. Old FRUSDR FTA_08 D85653-005 will change to FRUSDR FTA_12 D85653-006.
4. Revise the firmware on the LSI 1068 controller to support SATA software RAID. The firmware change will limit the SATA bus speeds to 1.5 Gb/sec so that signal integrity on the bus can be maintained. The SAS bus speed of 3.0 Gb/sec remains unchanged. The LSI 1068 controller is designed onto the Front Panel IO (FPIO) board. The FPIO board part number is revised from D69561-402 to D69561-403.
5. Revise the firmware on the Intel® 80333 controller to support SATA hardware RAID. The firmware change will limit the SATA bus speeds to 1.5 Gb/sec so that signal integrity on the bus can be maintained. The SAS bus speed of 3.0 Gb/sec remains unchanged. The Intel 80333 controller is designed onto the Front Panel IO (FPIO) board. The FPIO board part number is revised from D69561-402 to D69561-403.

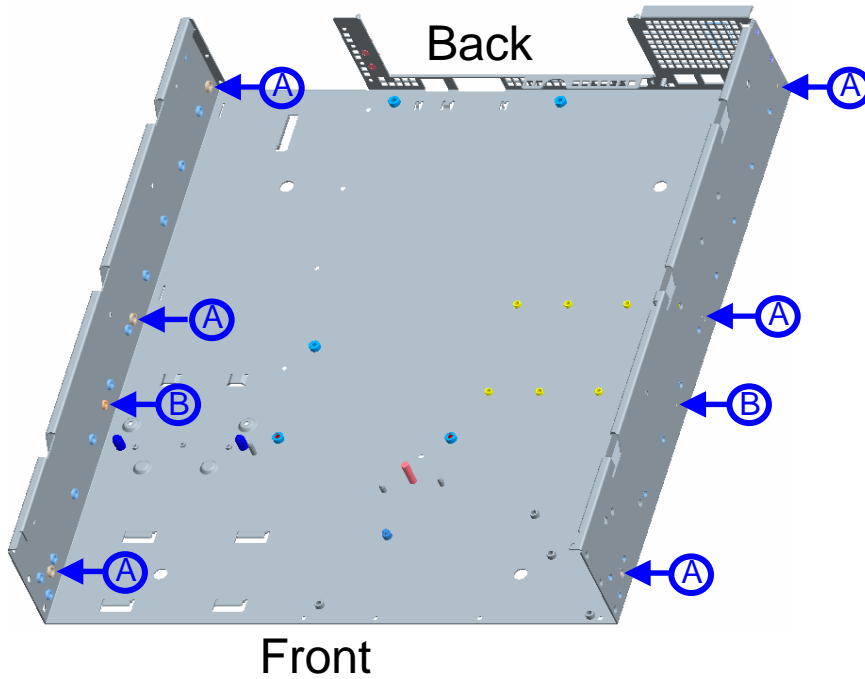
Customer Impact of Change and Recommended Action:

1. Intel anticipates no customer impact based on this change.
2. Intel anticipates no customer impact based on this change.
3. The firmware package has been developer tested and passed a validation cycle on the Intel® IP Network Server NSC2U. Customers may choose to perform re-qualification, re-test, re-certification or standard validation testing for this change.
4. The firmware package has been developer tested and passed a validation cycle on the Intel® IP Network Server NSC2U. Customers may choose to perform re-qualification, re-test, re-certification or standard validation testing for this change.
5. The firmware package has been developer tested and passed a validation cycle on the Intel® IP Network Server NSC2U. Customers may choose to perform re-qualification, re-test, re-certification or standard validation testing for this change.

**Description of Change to the Customer:
Support for additional rack mount kits**

Intel added a total of eight PEM nuts to the sides of the base chassis to enable support for three additional rack mount kits, AXXBASICRAIL, AXXBASRAIL13, or AXXHERAIL. Ordering information for these kits and other accessory items is listed in the Configuration Guide.

Three PEM nuts (size 10-32, labeled "A") and one PEM nut (size 6-32, labeled "B") are added to each side of the base chassis. See locations labeled "A" and "B" in the following diagram.



The original rack mount kits continue to be supported along with these three new rack mount kits.

	Rack Mounting Kit Options
Original support	TMLCMOUNT21
Original support	TMLPMOUNT41
Original support	TMLPMOUNT51
Original support	TMLPMOUNT52
New support	AXXBASICRAIL
New support	AXXBASRAIL13
New support	AXXHERAIL

Customer Impact of Change and Recommended Action:

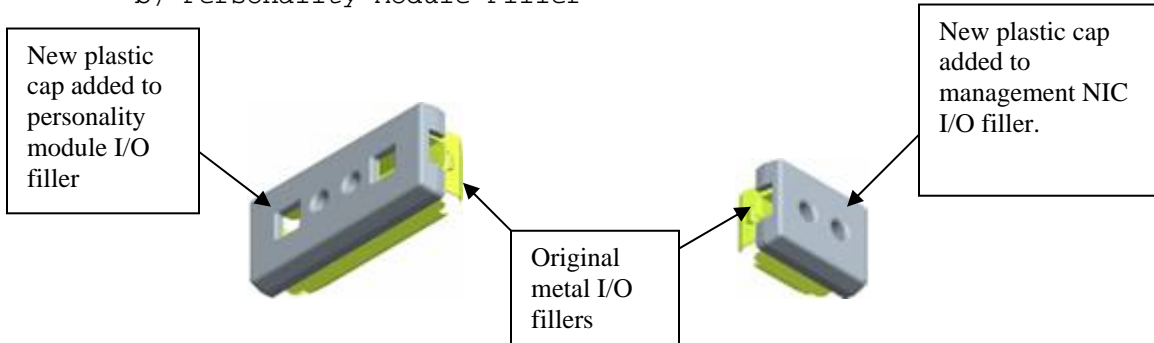
Intel anticipates no customer impact based on this change. Customer should evaluate additional rack mount options.

Description of Change to the Customer:

Add plastic cap to metal fillers

The following Metal I/O fillers have a plastic cap heat-staked on the external face to improve handling. The dimensions and geometry of the metal fillers remains unchanged. Note: new parts are black.

- a) GMC3 Filler
- b) Personality Module Filler



Customer Impact of Change and Recommended Action:

Implementing this change has no impact on customers.

Products Affected / Intel Ordering Codes:

Pre Change Product Code	Pre Change MM#	Pre Change TA	Post Change Product Code	Post Change MM#	Post Change TA
NSCA0201W	889358	D86176-013	NSCA0202W	900075	E49435-001
NSCD0201W	889357	D86178-013	NSCD0202W	900074	E49436-001
NSCFPIOBDLPW	889812	D89056-006	NSCFPIOBDLPW	889812	D89056-007
NSCFANSETW	889822	D89059-002	NSCFANSETW	889822	D89059-003

PCN Revision History:

Date of Revision:

May 16, 2008
August 28, 2008

Revision Number:

00
01

Reason:

Originally Published PCN
Update product codes and MM numbers; incorporate PCN#108531, PCN#108461