



Product Change Notification

108511 - 00

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Product Change Notification

Change Notification #: 108511 - 00
Change Title: Intel ® Carrier Grade Server TIGW1U and Intel ® Server Spare TMWFANSET01W, PCN 108511-00, Product Material, Changed CPU Fan Wire Routing, modifications allowing support for 2.5 inch SATA Hard Drives
Date of Publication: May 28, 2008

Key Characteristics of the Change:

Product Material

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	Jun 30, 2008
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Description of Change to the Customer:

Intel has modified the TIGW1U (the new product codes TMRA0201W and TMRD0201W) to enable support for 2.5 inch SATA hard drives. These changes allow for the use of 2.5 inch SATA drives in an enterprise server environment up to 35C.

There are 3 requirements to enable use of SATA in the TIGW1U:

1. The wire routing modifications listed below (Item 2 below).
2. FRU/SDR firmware revisions and settings (Item 3 below).
3. The hardware changes as notified in PCN108422.

These changes are fully backward compatible with the use of 2.5 inch SAS hard drives. SAS drives should be used in all NEBS environments, and continue to be supported up to 40C.

1. CPU Fan Modified:

This PCN notifies that Intel has changed the CPU fan by modifying the position of wiring from the side retention (Figure 1), or top retention (Figure 2), to a route through an unused mounting hole (Figure 3) for TMRA0201W, TMRD0201W, and TMWFANSET02W. Wiring had potential to be misrouted, or to escape retention, or to be routed through the wrong retention site (figure 2).

From cable side routing:

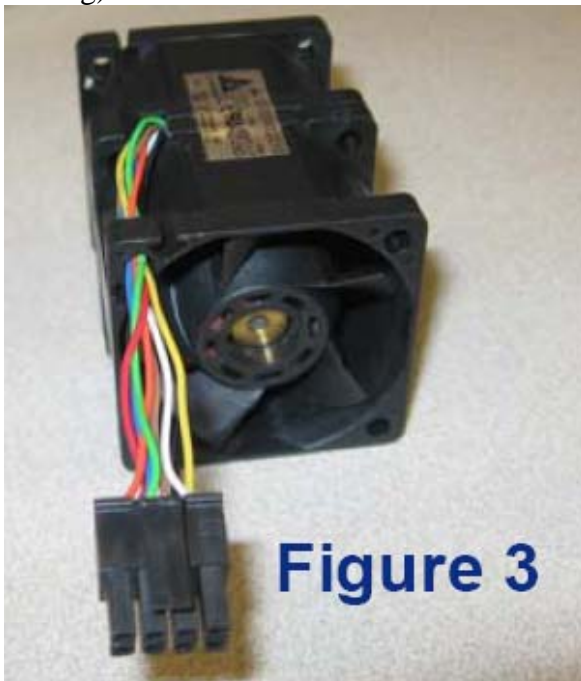


or cable top routing:



Note: Figure 2 is still correct position for the TMWA0201W or TMWD0201W product code servers.

To cable routing through the unused fan mounting hole cable routing (this is the new routing):



2. Wire routing modifications:

Changed the routing of the fan wire for the centermost CPU fan from under the CD IDE cable (Figure 4) to over the CD IDE cable (Figure 5). This change ensures that the IDE cable is not compressed against the sheet metal at the top of the chassis, and reduces the transmission of vibration from the fans to the drive bays.

Figure 4. Cable placement changed from this:

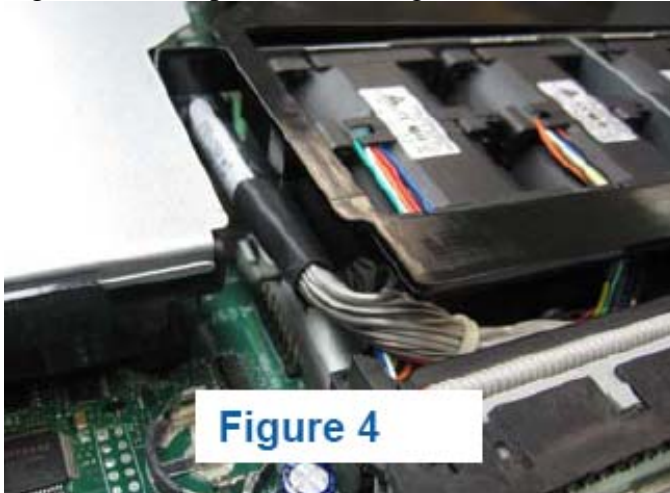
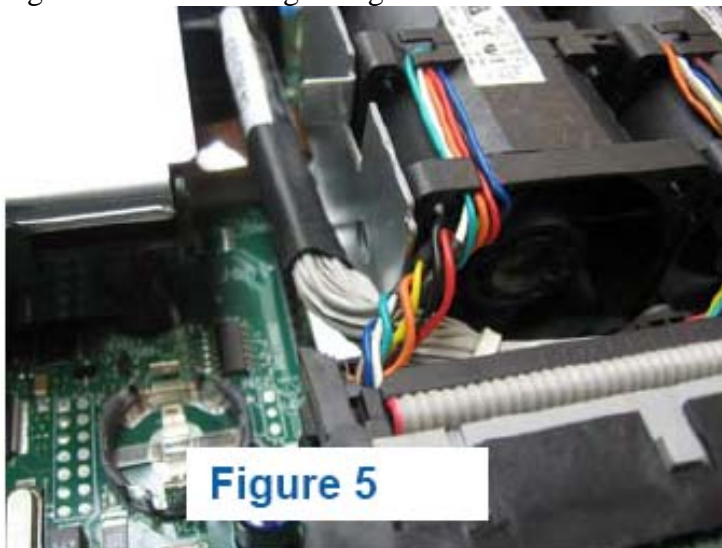


Figure 5. Cable routing changed to this:



3. FRU/SDR firmware revision and settings

In FRU/SDR version FHB_16, a third choice is available for setting the SDR to support TIGW1U-SATA. The menu prompts three choices: “TIGW1U-SAS”, “TIGW1U-SATA” or “NSW1U”.

Note: FHB_17 had the menu choice for “TIGW1U-SATA” removed; this is the only difference between FHB_16 and FHB_17. FHB_18 and above will have this choice enabled again.

Per the release notes of FHB_16, the new choice “Added TIGW1U SATA variant FSC records to cap the max speed at 64% to address fan vibration issues”.

Note: It should be noted that this setting and SATA drives should not be used in a NEBS environment, as this fan limit reduces the max ambient thermal level from the NEBS limit of 40C, down to the enterprise server limit of 35C.

Customer Impact of Change and Recommended Action:

These changes have been tested and passed a validation cycle on the Intel® Carrier Grade Server TIGW1U.

Products Affected / Intel Ordering Codes:

Product Code	MM#	Pre Change TA	Post Change TA
TMRA0201W	893696	E28389-007	E28389-008
TMRD0201W	893697	E28390-007	E28390-008
TMWFANSET02W	894963	E25345-XXX	E25345-YYY

PCN Revision History:

Date of Revision:

May 28, 2008

Revision Number:

00

Reason:

Originally Published PCN