



Product Change Notification

104552 - 00

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 geography 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: jcb.ijkk@intel.com

Copyright © Intel Corporation 2004. Other names and brands may be claimed as the property of others.

AlertVIEW, AnyPoint, AppChoice, EtherExpress, FlashFile, i386, i486, i960, Intel, Celeron, Intel486, Intel740, IntelDX2, IntelDX4, IntelSX2, Itanium, LANdesk, LanRover, Pentium, Xeon, Intel Xeon, NetMerge, NetStructure, OverDrive, Paragon, PDCharm, StrataFlash is a trademark 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 #: 104552 - 00
Change Title: Intel® NetStructure™ ZT 5085, ZT 5088 and MPCHC5089DC 12U Redundant Host Packet Switched Platform, PCN 104552-00, FFF, Product improvements
Date of Publication: November 05, 2004

Type of Change Notification:

FFF - (Form-Fit-Function)

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	Mar 07, 2005
---	--------------

Description of Change to the Customer:

As part of Intel's initiative to increase product performance and reliability, the following improvements will be made to current Intel® NetStructure™ ZT 5085, ZT 5088 and MPCHC5089DC 12U Redundant Host Packet Switched Platforms.

1. Power supply cage tolerance changes - Reduction of bends on power supply cage design to tighten tolerance as stack up of multiple sheet metal bends hinder properly seating power supplies into connectors. Solid wall on side of power module without cutouts to improve airflow and PEM cooling
2. Rack Mount brackets - Removed 9 of the 10 cutouts from the rack mount brackets to improve manufacturability and reduce labor machining time at supplier. One cutout needs to remain to allow access to the holes in the side of the chassis.
3. RPIO cage - Redesigned RPIO Cage to use a thicker gauge material, as opposed to doubling thickness of thinner gauge sheet metal to improve rigidity. Other changes include redesigning bracket mount for rear cover and cable guards into existing metal sheet to improve manufacturability
4. Larger perforation in rear exhaust and front vent covers to improve airflow and chassis cooling, and changes to bracket lower rear cover
5. New fan tray, fan cage side panels, cutouts removed - more robust for better air flow control. New fan tray will not be compatible with older chassis.
6. Other enhancements to improve reliability:
1 piece bottom/rear card guide alignment
Tolerances for fan tray clip bracket changing
Add fan tray Cable clips
Dimple on top of chassis

7. Product code changes from ZT5085/ZT5088 to MPCHC5085/MPCHC5088 and new MM# respectively. Please refer to the System Products Table below.

Customer Impact of Change and Recommended Action:

The changes will not require any application changes by the customer. These are mechanical only changes and do not affect the operation of applications. Customers may want to validate their applications but there should be no changes required.

The new fan tray assembly is not compatible with the existing chassis, it will only work with the new chassis. The new fan tray will ship with all new chassis. We will continue to maintain and sell inventory of the existing fan tray for customers that may require spares.

1. Electrically the same as their predecessor - Backplane formats remain the same
2. Mechanical Improvements - Higher tolerances improve fit and rigidity and simplified assembly for improved product availability
3. Chassis and payload reliability
 - Air flow improved by 46% - 370 to 540 lfm
 - Improved fans (not compatible with older chassis)
 - Lower internal temperature rise < 5deg C above ambient
 - Better control of fan speeds (fans run nominally at 80%)
 - Acoustic noise improvement by 5 db.

Intel has completed a full qualification of the changes.

Products Affected / Intel Ordering Codes:

System Products Table

Affected Product Code	Pre-Change MM#	Post-Change MM#	Pre-Change TA	Post-Change TA	Pre-Change Subassembly	Post-Change Subassembly
ZT5085AC 845904	845904	863990	A90846-015	C66063-001		
ZT5085DC 845906	845906	863991	A90844-015	C66098-001		
ZT5088AC 845907	845907	864053	A90843-015	C65540-002		
ZT5088DC 845912	845912	863989	A90842-017	C66052-002		

System Products Table

Affected Product Code	Pre-Change MM#	Post-Change MM#	Pre-Change TA	Post-Change TA	Pre-Change Subassembly	Post-Change Subassembly
MPCHC5089DC 856192	856192	868146	C58590-007	C66106-002		

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:
November 5, 2004

Revision Number:
00

Reason:
Originally Published PCN