



Product Change Notification

110054 - 00

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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

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Product Change Notification

Change Notification #:	110054 - 00
Change Title:	Intel Ethernet Server Adapters X520 product family, E10G41BFSR MM#900141, E10G42BFSR MM#900137, E10G41BFLR MM#900140, E10G42BTDA MM#900139 (X520-SR2/SR1/LR1/DA2, Spring Fountain Retail) PCN 110054-00 Software, Product Material, Label Update SW Version from Release 14.7 to 15.4, Add European Union WEEE (Waste Electrical and Electronic Equipment Directive) Regulatory Label and Stiffening Rail Plating change from Nickel Sulfamate to Tin
Date of Publication:	June 25, 2010

Key Characteristics of the Change:
Software
Product Material
Label

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	Jul 30, 2010
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Description of Change to the Customer:

The Intel Ethernet Server Adapters X520 product family, E10G41BFSR MM#900141, E10G42BFSR MM#900137, E10G41BFLR MM#900140, E10G42BTDA MM#900139 (X520-SR2/SR1/LR1/DA2, Spring Fountain Retail) will undergo the following changes:

Updated SW version from Release 14.7 to 15.4:

The X520 product family ships with a Software Literature kit CD which contains software drivers. Intel has updated these software drivers from version 14.7 to version 15.4. Version 15.4 adds FCoE support as follows:

Intel is pleased to announce that the Intel® Ethernet X520 Server Adapters now support FCoE (Fiber Channel over Ethernet). Specifically, Intel has made available an FCoE initiator for Windows* Server 2008 and 2003. Your customers can find this initiator on both the CD that ships with the product and Intel's support site as Intel® Network Connections Software Release 15.4. This release provides a WHQL certified Windows Server 2003 and Server 2008 stack that is optimized for the Intel X520 product family. Linux-based FCoE initiators from different distro's including RedHat, Novell, and Oracle are expected later this year. This FCoE initiator is going through the qualification process at various storage target vendors.

Storage certification status is as follows:

Vendor Certification	Completion
Microsoft WHQL	Now
Cisco Nexus 5000	Target Q3' 2010
NetApp	Target Q3' 2010
EMC Elabs	Target Q3' 2010

Current validated switch list:

Vendor	Model
FCoE Switch	
Cisco	Nexus 5020
	Nexus 5010
Brocade	Brocade 8000
FC Switch	
Cisco	MDS 9216A
	MDS9124
	MDS 9222i
Brocade	Brocade 4800

FCoE encapsulates Fiber Channel frames over standard Ethernet networks, enabling Fiber Channel to take advantage of 10 GbE networks while preserving its native protocol. The X520 server adapters offer FCoE hardware acceleration to provide performance comparable to FC HBAs. The X520 family of adapters support Data Center Bridging (DCB), which allows customers to configure traffic classes and priorities to deliver a lossless Ethernet fabric for FCoE traffic. By incorporating the FCoE initiator, an Intel Ethernet X520 Server Adapter reduces TCO by eliminating redundant fabrics and saves the cost of expensive FC HBAs and FC switch ports. The X520 Server Adapter family now supports all of your communication needs, including LAN, NAS, iSCSI, and FCoE.

Customers seeking direct support with the FCoE initiator can contact: fcoesupport@intel.com

Applicable sku's are listed below. *Please note the E10G41BFLR is not FCoE supported.*

Catalog Description	Intel® Part	MM#
Intel® Ethernet Server Adapter X520-SR1	E10G41BFSSR	900141
Intel® Ethernet Server Adapter X520-SR2	E10G42BFSSR	900137
Intel® Ethernet Server Adapter X520-DA2	E10G42BTDA	900139

In addition to the added FCoE support, we have also added the following support features with SW vs 15.4:

- Added 82599 SFP device support for Active SFP+ direct attach cables. Validated cables include Laserwire and Intersil.
- Added SR-IOV support for 82599 devices.
- Combined all pre-boot configuration utilities (IBAUtil, iSCSIUtil, LANUtil, etc) into a new utility called BootUtil. BootUtil has the functionality of all previous pre-boot configuration utilities in a single utility. The pre-boot data files have been combined into a single BootImg.FLB file which contains all supported pre-boot flash images (PXE, EFI, iSCSI Boot). BootImg.FLB combines the 16 FLB files from previous releases into a single file.

Customers can download latest SW drivers here,
<http://www.intel.com/support/network/adapter/x520server/index.htm>

Add EU WEEE label:

Intel manufactures a wide range of products, from microprocessors, through embedded controllers, to systems, and is committed to complying with applicable legal requirements. We continually monitor changes in those requirements.

It is important to note that the EU WEEE Directive requires "producers" of certain electrical and electronic equipment to develop recycling programs to allow the end user to return WEEE for recycling. The definition of "producer" is broad and can potentially include various entities in a products life cycle (e.g. manufacturer, distributor, reseller). Each EU Member State has implemented national legislation detailing specific requirements for WEEE implementation in that Member State. Some other non-EU countries have laws similar to the WEEE Directive; however, the scope and producer responsibility requirements vary from those of the WEEE Directive.

Most of Intel's semiconductor components are generally not considered within the scope of the WEEE Directive; however, the scope of the Directive can vary between Member States. In order to address potential scope and registration issues in a minority of Member States, certain components may be labeled with the wheelie bin symbol. Intel considers its chassis-level server products to be within the scope of the WEEE Directive, although the final assembly and/or configuration of these systems are commonly completed by commercial customers.

If you have any questions concerning this WEEE directive, please send an email to weee@intel.com.

The WEEE label will be placed on either the back or the front of the printed board (PB) depending on how much free space is available on the front or the back of the PB, see sample label picture below.

WEEE label picture (example only)



Stiffening Rail Plating change from Nickel Sulfamate to Tin:

Intel will change the stiffening rail plating from Nickel Sulfamate to Tin. Tin plating is more widely available in the industry, and will allow Intel more flexibility to help reduce lead time/delivery from our bracket suppliers. Tin plating is already used on many Intel products, and the tin plating has been fully qualified/tested for humidity and tin whiskers.

Customers might expect to see a slight visual difference between the tin and the nickel plating. Tin plating is slightly shinier and brighter than nickel when placing them side by side for visual inspection. No photos have been included in this PCN notice, because a camera can only distinguish the difference in color but not the shininess or brightness.

The Top Assembly (TA) and Printed Boards Assembly (PBA) numbers will also roll, as noted in the affected products table within this PCN notification. If the PBA/TA numbers are printed on any product or box labels, those will show the PBA/TA dash roll as well.

Customer Impact of Change and Recommended Action:

Customers can expect to receive mixed inventory until current inventory levels have been depleted.

These changes have no affect on Form, Fit of Function of the X520 family of products.

Products Affected / Intel Ordering Codes:

Product Name	Product Code	MM#	Old TA#	New TA#	Old PBA#	New PBA#
Intel Ethernet Server Adapter X520-SR2 (SR Dual Port)	E10G42BFSR	900137	E68788-002	E68788-003	E68785-002	E68785-003
Intel Ethernet Server Adapter X520-SR1 (SR Single Port)	E10G41BFSR	900141	E68795-002	E68795-003	E68787-002	E68787-003
Intel Ethernet Server Adapter X520-DA2 (Dual Direct Attach)	E10G42BTDA	900139	E68797-002	E68797-003	E68793-002	E68793-003
Intel Ethernet Server Adapter X520-LR1 (LR Single Port)	E10G41BFLR	900140	E65557-002	E65557-003	E66561-003	E66561-004

Reference Documents / Attachments:

Document:	Location #:
X520 product family SW driver downloads	http://www.intel.com/support/network/adapter/x520server/index.htm

PCN Revision History:

Date of Revision:

June 25, 2010

Revision Number:

00

Reason:

Originally Published PCN