



Intel[®] Server Board S975XBX2

Tested Hardware and Operating System List

Revision 1.0

September, 2006

Revision History

Date	Revision Number	Modifications
October 2006	1.0	Initial Draft

Disclaimers

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATION, OR SAMPLE.

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 retains the right to make changes to its test specifications at any time, without notice.

The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty.

Copyright © Intel Corporation 2006. All rights reserved.

Intel, the Intel logo, and EtherExpress are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

*Other names or brands may be claimed as the property of others.

Table of Contents

- 1. Introduction 1**
 - 1.1 Test Overview 1
 - 1.1.1 Basic Installation Testing 1
 - 1.1.2 Adapter / Peripheral Compatibility and Stress Testing..... 2
 - 1.2 Pass/Fail Test Criteria 3
- 2. Intel® Server Board S975XBX2 Base System Configurations 1**
- 3. Supported Operating Systems..... 2**
- 4. Adapters and Peripherals 3**
- 5. Hard Disk Drives..... 9**

1. Introduction

This document is intended to provide users of the Intel® server board **S975XBX2** with a guide to the different operating systems, adapter cards, and peripherals tested by Intel on this platform.

This document will continue to be updated as new adapters, peripherals, and operating systems are tested or until the Intel® server board **S975XBX2** is no longer in production. Each new release of the document will present updated information as well as continue to provide the information from previous releases.


Intel will only provide support for those adapters and peripherals under the specified system configuration (System BIOS and Firmware revisions) and operating systems versions with which they were tested.

1.1 Test Overview

Testing performed on the Intel® server board **S975XBX2** is classified under two separate categories: Basic Installation Testing, and Adapter / Peripheral Compatibility and Stress Testing.

1.1.1 Basic Installation Testing

Basic installation testing is performed with each supported operating system. Basic installation testing validates that the server board can install the operating system and that the base hardware feature set is functional. A small set of peripherals is used for installation purposes only. No add-in adapter cards are tested. Testing includes network connectivity and running of proprietary and industry standard test suites.

-  The latest version of an operating system signifies the latest supported version at the time of the actual test run. Each new release of this document may have a newly supported release of a given operating system. Previous releases of a supported operating system may not be tested beyond the basic installation test process.

1.1.1.1 Support Commitment for Basic Installation Testing

Intel commits to provide the following level of customer support for operating systems that receive only basic installation testing:

- Intel will provide and test operating system drivers for each of the server board's integrated controllers, provided that the controller vendor has a driver available upon request. Vendors will not be required by Intel to develop drivers for operating systems that they do not already support. This may limit the functionality of certain server board integrated controllers.
- Intel will support customer issues that involve installation and/or functionality of operating system with the server board's integrated controllers only if a driver has been made available.

- Intel will NOT provide support for issues related to use of any add-in adapters or peripherals installed in the server system when an operating system that received basic installation testing only is in use.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.

1.1.2 Adapter / Peripheral Compatibility and Stress Testing

Adapter / Peripheral Compatibility and Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The Adapter / Peripheral Compatibility and Stress testing process consists of three areas: Base Platform, Adapter Compatibility, and Stress.

Base Platform: Each base platform will successfully install a given operating system, successfully run a disk stress test, and successfully run a network stress test.

Adapter Compatibility: Adapter compatibility validation (CV) testing uses test suites to gain an accurate view of how the server performs with a wide variety of adapters under the primary supported operating systems. These tests are designed to show hardware compatibility between the cards and the server platform and include functional testing only. No heavy stressing of the systems or the cards is performed for CV testing.

Stress Testing: This test sequence uses configurations that include add-in adapters in all available slots, (depending on chassis used) for a minimum 72-hour test run without injecting errors. Each configuration passes an installation test, a Network/Disk Stress test, and tape backup test. Any fatal errors that occur will require a complete test restart.

1.1.2.1 Support Commitment for Adapter / Peripheral Compatibility and Stress Testing

Intel commits to provide the following level of customer support for operating systems that receive Adapter / Peripheral Compatibility and Stress testing:

- Intel will provide support for customer issues with these operating systems involving installation and/or functionality of the server board with or without the adapters and peripherals listed in this document as having been tested under the particular operating system.
- Support is defined as assistance in root causing issues, and determining a customer acceptable resolution to the issue associated with the operating system. The resolution may include, but is not limited to, on-board controller driver changes, engaging the vendor for resolution, BIOS changes, firmware changes, or determining a customer acceptable workaround for the issue.
- Intel will provide and test operating system drivers for each onboard video, network, and storage controller.
- Intel will enable vendors to provide driver support for add-in adapters using these operating systems.

- Intel will go through some of the steps to achieve certification to ensure its customers do not run across any problems, but the actual certification is the responsibility of the individual customer.
- ⇒ For operating systems, adapter cards, and peripherals not listed in this document, there is no support commitment. Intel will consider support requests on a case-by-case basis.


1.2 Pass/Fail Test Criteria

For each operating system, adapter, and peripheral configuration, a test passes if specific criteria are met. Specific configurations may have had particular characteristics that were addressed on a case-by-case basis. In general, a configuration passes testing if the following conditions are met:

- 9 The operating system installed without error.
- 3 Manufacturer's installation instructions or Intel's best-known methods were used for the operating system installation.
- 4 No extraordinary workarounds were required during the operating system installation.
- 5 The server system behaved as expected during and after the operating system installation.
- 6 Application software installed and executed normally.
- 10 Hardware compatibility tests ran to completion without error.
- 11 Test software suites executed successfully
- 7 Test and data files were created in the correct directories without error.
- 8 Files copied from client to server and back compare to the original with zero errors reported.
- 9 Clients remain connected to the server system.
- 10 Industry standard test suites run to completion with zero errors reported.

2. Intel® Workstation Board S975XBX2 Base System Configurations

The following table lists the base system configurations tested. Base system configuration will change as new revisions of the Intel® Workstation board **S975XBX2** are released and/or new system BIOS is cut onto the board in the factory.

-  Intel will only provide support for adapters and peripherals under the specified base system configuration and operating systems versions with which they were tested.

Base System Configuration Identifier #	Board Type	PBA Number	BIOS Revision	Notes
1	975XBX2	D53350-100	BX97520J.86A.0342.2006.0531.1119	FAB A
2	975XBX2	D53350-301	BX97520J.86A.0608.2006.0721.0926	FAB C

3. Supported Operating Systems

The following table provides a list of supported operating systems for the Intel® workstation board **S975XBX2**. Each of the listed operating systems was tested for compatibility with Intel® workstation board **S975XBX2** base system configuration listed in Section 2 of this document. Operating systems are supported only with the specified base system configuration(s) with which they were tested.

The following table also indicates whether each operating system received Basic Installation Testing, or Adapter / Peripheral Compatibility and Stress Testing. For information on the support commitments for Basic Installation Testing vs. Adapter / Peripheral Compatibility and Stress Testing, please reference Section 1 of this document.

Any variations to the standard operating system installation process are documented in the Installation Guidelines section of this document. If there are no installation guidelines noted in the following table, then the operating system installed as expected using manufacturer's installation instructions or Intel's best-known methods.

Operating System	Type of Testing	Notes
Microsoft* Windows* XP Professional with SP2	Configuration 2 – Compatibility	
Microsoft* Windows* (EM64T) XP Professional X64 Edition	Configuration 2 – Compatibility	

4. Adapters and Peripherals

Add-in adapter card and peripheral compatibility and stress testing will only be performed with the latest version of an operating system at the time the validation testing occurred. The following table shows the operating system and base system configurations used to validate each device. The adapters are divided into categories based on their functionality. All integrated on-board devices are tested by default and are therefore not included in the following tables.

Note that not all adapter cards were tested under all operating systems. The following notation is used in the tested adapters and peripherals table below to indicate the support level that Intel provides for a particular adapter under a particular operating system:

Number (i.e. 1)	This adapter or peripheral has been tested and is supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document.
Number in brackets (i.e. [1])	This adapter or peripheral has been tested, but is NOT supported under the specific configuration identified in the Base System Configurations Table in Section 2 of this document.
NT	This adapter or peripheral has not been tested under this operating system and is not supported under this operating system.
ND	This adapter or peripheral has not been tested under this operating system due to limitations in IHV driver availability, and is not supported under this operating system.
SA (Similar Adapter)	This adapter is supported, but not tested. This adapter model has not been tested with this server board, but Intel will support it based on successful testing of a similar adapter from the same adapter family. Intel has high confidence that this adapter will function correctly with the server board. This adapter uses the same firmware and drivers, and has a nearly identical system interface to another adapter of the same family that has been successfully tested with this server board. In addition, Intel has secured IHV commitment to support the similar adapters equally. Customers should always test adapters as part of the final system configuration prior to deployment. All installation guidelines for the tested adapter also apply to the similar adapter.

Any variations to the standard adapter installation process or to expected adapter functionality are documented in the Installation Guidelines section of this document. If there are installation guidelines affecting a particular adapter and operating system combination, these are referenced in the following table. If there are no installation guidelines noted in the following table, then the adapter installed and functioned as expected using manufacturer's installation instructions or Intel's best-known methods.



Testing of adapters cards normally is performed with unused add-in adapters and onboard controller expansion ROMs disabled in BIOS Setup. Intel recommends that customers disable the option ROM for add-in controllers and/or the on-board controllers when not booting from the controller or needing to use its built in utilities.

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* XP Professional with SP2	Microsoft* Windows* (EM64T) XP Professional	Microsoft* Windows* Vist (client) build 5520 Pre-RC1	Microsoft* Windows* (EM64T) Vist (client) build 5520 Pre-RC1
4.1 Video Adapter								
Albatron	Albatron Trinity PCX5900 128MB DDR PCIe x16	PC5900			2			
Asus	Asus eXtreme AX 600XT/TD PCIe x16	EAX600XT			2			
ATI	ATI Technologies Radeon X700 Pro 256M PCIe x16	Radeon X700Pro			2			
ATI	ATI Technologies Radeon X800 XT PCIE 256M VIVO	X800 XT 256MB			2			
ATI	ATI Technologies Radeon X850XT 256MB PCIe x16	102A4741310			2			
Gigabyte	Gigabyte Technology Nvidia Geforce PCX 5750 PCIe x16	GV-NX57128D			2			
Micro-Star International (MSI)	Micro-Star International (MSI) Nvidia Geforce PCX 5750 PCIe x16	PCX5750-TD128			2		2	2
Micro-Star International (MSI)	Micro-Star International (MSI) Nvidia NX 6800 SLI PCIe	NX6800			2			
Gigabyte	Gigabyte Technology Nvidia Geforce PCX 5900 PCIe x16	GV-NX59128DP			2	2		
Micro-Star International (MSI)	Micro-Star International (MSI) Nvidia Geforce PCX 5750 PCIe x16	PCX5750-TD128			2			
4.2 Audio Adapters								
Creative	Creative Technology Sound Blaster Audigy 2 ZS Platinum PRO PCI	SB0360			2			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* XP Professional with SP2	Microsoft* Windows* (EM64T) XP Professional	Microsoft* Windows* Vist (client) build 5520 Pre-RC1	Microsoft* Windows* (EM64T) Vist (client) build 5520 Pre-RC1
Creative	Creative Technology Sound Blaster X-Fi Fatal1ty FPS	SB0460			2			
	Guillemot Hercules Gamesurround Fortissimo III 7.1	Hercules Gamesurround Fortissimo III 7.1			2			
	M-Audio revolution 7.1	revolution 7.1			2			
4.3 Power supply								
Antec	Antec NeoPower Power Supply	Neo480			2	2	2	2
	Enemax Noisetaker Enermax ATX 12V SFMA Technology Power Supply	EG701AX-VE(W) (24P)			2			
4.4 NIC								
3Com	3Com Fast Ethernet 3C905CX-TX-M	3C905CX-TX-M			2			
Intel	Intel PRO/1000 MT Desktop Adapter	PWLA8390MT			2			
Marvell	Marvell Marvell PCI-e x1 Network Adapter	MV-L200258-10 Rev 1.1			2			
	SysKonnnect 10/100/1000Base-T Adapter PCI-Express x4	SK-9E22			2			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* XP Professional with SP2	Microsoft* Windows* (EM64T) XP Professional	Microsoft* Windows* Vist (client) build 5520 Pre-RC1	Microsoft* Windows* (EM64T) Vist (client) build 5520 Pre-RC1
4.5 Modems								
	Diamond Multimedia SupraMax Pro High Performance 56k Modem	90500030			2			
	Zoom Zoom/FaxModem 56k PCI Plus	2920			2			
4.6 Floppy Drive								
	TEAC FD-235HF	FD-235HF			2	2	2	2
	Samsung SFD-321B	SFD-321B			2			
4.7 CD/DVD Drives								
	TEAC Combo Drive CD-RW/DVD-ROM, IDE	DW-552G						2
	Plextor DVD/CD Rewritable 12X DVD +/-RW, SATA	PX-712SA			2		2	
	Micro-Star International (MSI) CD-RW+DVD-ROM SATA	XA52P			2			
	Plextor 6X Dual Layer 16X DVD +/- R External 1394 USB 2.0 Drive	PX-716UF				2		
	Lite-On IT DVD/CD Rewritable 8X DVD +/-RW	SOHW-812S			2			
	Ultima Electronics DVD-ROM 48x16, IDE	DHM-G48			2			
	QPS Que! Fire CD-RW Drive!	QPCRW52245 2FL			2			

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* XP Professional with SP2	Microsoft* Windows* (EM64T) XP Professional	Microsoft* Windows* Vist (client) build 5520 Pre-RC1	Microsoft* Windows* (EM64T) Vist (client) build 5520 Pre-RC1
4.8 Input Drives								
	Logitech Internet Navigator	Y-BF37			2	2	2	
	Microsoft Wheel Mouse Optical	Wheel Mouse Optical			2	2	2	
	Razer USA Ltd Razer Mouse	Copperhead			2			
	Logitech Optical Mouse	M-BT96a			2			
	Logitech Premium Optical Wheel Mouse	M-BT58			2			
	Mitsumi Keyboard	KFK-EB9HY			2			
	Logitech Access Keyboard	Y-SR34			2			
4.9 Display Devices								
	ViewSonic Graphic Series G220f 21" CRT Monitor	VCDTS23852-1P				2	2	
	LG Electronics Flatron 1710S 17" LCD Monitor	L17MS-0			2			
	Samsung SyncMaster 710MP 17" LCD TV Monitor	MH17NSSS			2			
	ViewSonic E71f 17" CRT Monitor	VS10083			2			
	Samsung SyncMaster 740B 17" TFT- LCD TV Monitor	740B			2			
4.10 Audio Devices								
	Creative Technology Inspire 5.1 Speaker	Digital 5500				2	2	
	Labtec Spin-45 Speakers	S-0067A					2	

Manufacturer	Model Name	Model Number	Interface	Comments	Microsoft* Windows* XP Professional with SP2	Microsoft* Windows* (EM64T) XP Professional	Microsoft* Windows* Vist (client) build 5520 Pre-RC1	Microsoft* Windows* (EM64T) Vist (client) build 5520 Pre-RC1
	Labtec Spin-45 Speakers	S-0067A				2		
	Creative Technology Inspire 5.1 5200 Speaker	Inspire 5.1 5200				2		
	Altec Lansing Series 100	120			2			
	LTB Audio Systems, Inc. LTB USB True 5.1 Surround Sound Headphone with Mic	LTB-USB-M			2			
4.11 Serial ATA Adapters								
	SIIG 4-Channel Serial ATA RAID Controller	SC-SA4R12						
	Intel Server RAID Controller	SRCS14L			2			
	Promise Technology SATAII 150 TX4	SATAII 150 TX4						

5. Hard Disk Drives

The hard drives listed in the following table have been tested with the Intel® Workstation board **S975XBX2** by Intel in its validation labs and/or by individual drive vendors. The following operating system identifiers are used in the table to specify which OS each drive was tested under.

Identifier number	Operating System
1	Microsoft* Windows* XP Professional with SP2
2	Microsoft* Windows* (EM64T) XP Professional X64 Edition
3	Microsoft* Windows* Vista (Client) build 5520 Pre-RC1
4	Microsoft* Windows* (EM64T) Vista (Client) build 5520 Pre-RC1

Note that not all hard drives were tested under all operating systems. The following notation is used in the tested hard drives table below to indicate the support level that Intel provides for a particular hard drive with a particular operating system:

Number (i.e. 1)	This hard drive has been tested and is supported under the operating system identified by the operating system identification number.
Number in brackets (i.e. [1])	This hard drive has been tested, but is NOT supported under the operating system identified by the operating system identification number.
SD (Similar Drive)	The hard disk drive is supported, but not tested. This hard drive model/capacity has not been tested with this server board, but Intel will support it based on successful testing of a larger capacity hard drive from the same hard drive family. Intel has high confidence that this hard drive will function correctly with the server board. This drive uses the exact same firmware and drivers as a larger capacity hard drive that has been successfully tested with this server board. The only difference between this drive and the one that was used in testing is the storage capacity. Intel provides the same level of support for all hard drives listed in this document, regardless of whether the drive was tested or not. Customers should always test hard drives as part of the final system configuration prior to deployment. Given the fact that a larger capacity hard drive from the same drive family has successfully completed testing on this server board, this particular hard drive capacity point will not be tested.
IHVT (IHV Tested)	The hard disk drive was tested according to Intel-approved guidelines and test procedures by the Independent Hardware Vendor (IHV) that manufactured the drive. Intel provides the same level of support for all hard drives listed in this document, regardless of whether the drive was tested in an Intel lab or not. IHV test reports remain the property of the IHV (Intel cannot provide copies of these reports).

Manufacturer	Product Family	Model Number	Drive size (GB)	Tested Operating Systems	Notes
Parallel ATA (PATA) Hard Drives					
Maxtor	Maxtor DiamondMax Plus 8 40 GB PATA 133	6E040L0	40 GB	1	

Manufacturer	Product Family	Model Number	Drive size (GB)	Tested Operating Systems	Notes
Western Digital	Western Digital Caviar SE 120 GB PATA 100 Special Edition	WD1200JB	1		
IBM	IBM Deskstar 180GXP 60 GB PATA 100	IC35L060AVV207-0		4	
Serial ATA (SATA) Hard Drives					
Western Digital	Western Digital WD Raptor 36 GB SATA 150	WD360GD		1	
Maxtor	Maxtor DiamondMax Plus 9 160 GB SATA 150	6Y160M0		1	
Seagate	Seagate Barracuda SATA V 80 GB SATA 150	ST380023AS		1	
Western Digital	Western Digital Caviar 200 GB SATA 150	WD2000JD		4	
Seagate	Seagate Barracuda 7200.9 250 GB SATA NCQ	ST3250824AS		3	
Hitachi	Hitachi Deskstar 250 GB SATA 150	HDS722525VLSA80		1	
Maxtor	Maxtor MAXLine 300 GB SATA 150 NCQ	7B300S0		1	