



Intel[®] Server Board SE7500WV2 Tested Hardware & Operating System List



Revision 1.7

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Enterprise Platforms and Services Division

Revision History

Date	Revision Number	Modifications
6/02	0.5	Initial Release
7/02	0.6	Changed the name for Intel® RAID controller SRCMR to SRCMRU for clarification
8/02	0.7	Added additional adapters.
9/02	1.0	Updated to include latest supported operating systems and tested hardware to support both SCSI & ATA
10/02	1.5	Updated part numbers for Intel NIC cards. (In shaded area)
10/02	1.6	Removed Western Digital Caviar XL40 ATA drive.
10/02	1.7	Removed Adaptec ASE-3410S adapter card.

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1. Introduction

This document is intended to provide users of the **server board SE7500WV2** 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 add-in cards, peripherals, and operating systems are tested or until the server board SE7500WV2 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 to those add-in cards and peripherals under the specified system configuration (System BIOS and firmware) and operating systems and versions to which they were tested.

1.1 Test Overview

Testing performed on the server board SE7500WV2 is classified under two separate categories: Compatibility Testing and Stress Testing.

1.1.1 Compatibility Testing

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

Extended compatibility testing will occur on only the latest versions of a supported operating system. Extended compatibility testing will test for functionality of a variety of add-in adapters and peripherals. Test applications used will consist of both proprietary as well as industry standard test suites.

Note: 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 compatibility test process.

1.1.2 Stress Testing

Stress testing is performed only on the most current release of a supported operating system at the time of a given validation run. The stress test process consists of three areas: Base platform, Multiple Adapter, and Endurance.

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

Multiple Adapter: Multiple adapter validation (MAV) testing uses configurations and test suites to gain an accurate view of how the server performs under varying complex configurations while interacting with network clients. Each configuration is tested for at least 12 hours.

Endurance Test: This test sequence uses configurations that include 2-6 add-in adapters (depending on chassis used) for a minimum 72 hour test run without injecting errors. Three servers operating under Microsoft* Windows* 2000 Advanced Server, Red Hat Linux, Novell NetWare*, and SuSE Professional are tested in parallel. 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.

1.2 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:

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

All SE7500WV2 testing was performed using either or both of the SR1300 and SR2300 server chassis.

2. SE7500WV2 Base System Configurations

The following table lists the base configurations tested. Base configurations will change as new revisions of the server board SE7500WV2 are released and/or new system BIOS and BMC firmware are cut onto the board in the factory. Each base configuration is assigned an identifier number which is referenced in the tables throughout this document. New base configurations are added with each new release of this document.

Base System Identifier #	Board Type	Part Number	BIOS Revision	BMC Firmware Revision	Notes
1	SCSI	A81417-402	P02	BMC 15	
2	ATA	A81418-402	P02	BMC 15	

3. Supported Operating Systems

The following table provides a list of supported operating systems for the server board SE7500WV2 (ATA and SCSI). Each of the listed operating systems was tested for compatibility with a base SE7500WV2 configuration. OS Compatibility testing verifies that the OS will install and function with all onboard devices.

Operating System	Base Configuration Tested
Microsoft* Windows* 2000 Advanced Server, Service Pack 2	1, 2
Red Hat* Linux* 7.3	1, 2
Novell* Netware* 6	1, 2
SuSE* Professional* 8	1, 2

4. Add-in Cards and Peripherals

Add-in 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 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. This is due to limitations in IHV driver availability.

	Microsoft* Windows* 2000	Red Hat* Linux* v7.3	SuSE* Professional* 8	NetWare* 6
PCI / RAID				
Adaptec* 2000S	1			
Adaptec ASR-2110S	1, 2		1, 2	1, 2
Adaptec ASR-5400S	2	2	2	2
AMI* 4932010232A	1, 2	1, 2		1, 2
AMI MegaRAID 475	1, 2	1, 2		1, 2
ICP-Vortex* GDT4523RZ	1, 2	1, 2	1, 2	1, 2
ICP-Vortex GDT8623RZ	1, 2	1, 2	1, 2	1, 2
ICP-Vortex GDT8663RZ	1, 2	1, 2	1, 2	1, 2
Intel® SRCU31	1, 2	~1, 2	1, 2	1, 2
Intel SRCU31L	1, 2	~1, 2	1, 2	1, 2
Intel SRCU32	1, 2	~1, 2	1, 2	1, 2
Intel SRCU42L	2	2	2	2
Intel SRCMR (U)	1	~1	1	1
Mylex* A170LP-1-16NB	1, 2	1, 2		1, 2
Mylex AcceleRAID* 170	1, 2	1, 2	1, 2	1, 2
Mylex AcceleRAID 352	1, 2	1, 2		1, 2
Mylex E2000-4-32BD	1, 2	1, 2	2	1, 2
Promise* FastTrak* TX2000	1, 2	2		
PCI SCSI				
Adaptec ASC-29160LP	1, 2	1, 2	1, 2	1, 2
Adaptec ASC-29160N	1, 2	1, 2	1, 2	1, 2
Adaptec ASC-39160	1, 2	1, 2	1, 2	1, 2
LSI Logic LSI20160L	1, 2	1, 2	1, 2	1, 2
LSI Logic LSI22320	1, 2	1, 2	2	

	Microsoft* Windows* 2000	Red Hat* Linux* v7.3	SuSE* Professional* 8	NetWare* 6
LSI Logic LSI22902	1, 2	1, 2	1, 2	2
LSI* Logic* LSI22903	1, 2	1, 2	1, 2	1, 2
PCI Fiber Channel Host Adapters				
Emulex* LP9000/9002-T1	1	1	1, 2	1
Emulex LP9402DC-F2	1, 2	1	1	1, 2
JNI* FCX2-6562			2	
Qlogic* QLA2200/66	1, 2	1, 2	1, 2	1, 2
Qlogic QLA2200L	1, 2	1, 2	1, 2	1, 2
Qlogic QLA2310	1, 2	1, 2	1, 2	1, 2
Qlogic QLA2340	1, 2	1, 2	1, 2	1, 2
Qlogic QLA2342	1, 2	1, 2	1, 2	1, 2
PCI Network Interface Cards				
3COM* 3C905C-TX-M	1, 2	1, 2	1, 2	1, 2
3COM 3C980C-TXM	1, 2	1, 2	1, 2	1, 2
3COM 3C996B-TX	1			
Intel® PRO/100+ S Server Adapter (PILA8470D3)	1, 2	1, 2	1, 2	1, 2
Intel PRO/100+ S Low-profile Server Adapter (PILA8470D3G)	1	1	1	1
Intel PRO/1000XT Low-profile Gigabit Server Adapter (PWLA8490XTL)	1, 2	1, 2	1, 2	1, 2
Intel PRO/1000XT Gigabit Server Adapter (PWLA8490XTP)	1, 2	1, 2	1, 2	1, 2
Intel PRO/1000F Gigabit Server Adapter (SX Fiber) (PWLA8490SX)	1, 2	1, 2	1, 2	1, 2
Intel PRO/1000T Gigabit Server Adapter (Copper) (PWLA8490T)	1, 2	1, 2	1, 2	1, 2
Intel PRO/1000XF Gigabit Server Adapter (PWL8490XF)	1, 2	1, 2	1, 2	1, 2
Intel PRO/1000MT Dual-port Gigabit Server Adapter (PWLA8492MT)	1	1	1	1
Intel PRO/1000MF Dual-port Gigabit Server Adapter (PWLA8492MF)	1	1	1	1

	Microsoft* Windows* 2000	Red Hat* Linux* v7.3	SuSE* Professional* 8	NetWare* 6
Modems				
3COM* 3CP3453	1, 2	1, 2	1, 2	
3COM 3CP5610B	1, 2	1, 2		
USB Devices				
Addonics* Aemed35AUM IDE to USB adapter	1, 2	1, 2	1, 2	1
Iomega* CD-RW 24x10x40	1, 2	1, 2	1, 2	1
Keytronic* E06101USBC	1, 2	1, 2	1, 2	
LG* U2-12X	1, 2	1, 2	1, 2	1
Logitech* M-UB48 Mini wheel mouse PS/2 and USB	1, 2	1, 2	1, 2	1, 2
M-Systems* Disk on Key 128MB	1, 2	1, 2	1, 2	
Maxtor* 3000LE USB Hard Drive	1, 2	1, 2	1, 2	1, 2
Microsoft* Intellimouse	1, 2	1, 2	1, 2	1, 2
Microsoft Internet Keyboard Pro PS/2 and USB (200516)	1, 2	1, 2	1, 2	1, 2 (PS/2 only)
Plextor* CD-RW 24x10x40	1, 2	1, 2	1, 2	1
Teac* CD210PU/Kit	1, 2	1, 2	1, 2	1
Teac FD05PUB USB Floppy	1, 2	2	2	
CD-ROM/DVD-ROM Drives				
Mitsumi* CRMC-FX5401W (ATA33)	1, 2	1, 2	1, 2	1, 2
Plextor* PX-40TSUW	1	1	1	1
Teac* CD-540E (ATA)	1, 2	1, 2	1, 2	1, 2
Samsung* SC – 152 (ATA33)	1, 2	1, 2	1, 2	1, 2
Samsung SN-124	1, 2	1, 2	1, 2	1, 2
DVD				
Hewlett Packard* DVD200i (ATA)	1, 2	1, 2	1	1, 2
Pioneer* DVD-305S	1	1	1	1
Samsung* SD-616 (ATA33)	1, 2	1, 2	1, 2	1, 2
Toshiba* SD-M1612 (ATA33)	1, 2	1, 2	1, 2	1, 2
Removable Devices				
Avocent* 1160ES keyboard/video/mouse switch	1, 2	1, 2	1, 2	1, 2

	Microsoft* Windows* 2000	Red Hat* Linux* v7.3	SuSE* Professional* 8	NetWare* 6
Belkin* Omniview Pro KVM	1, 2	1, 2	1, 2	1, 2
FUJITSU* MCJ3230AP	1, 2	1	1	
FUJITSU MAM3367MC	1	1	1	
IOMEGA* CD-RW 4x4x6 (USB)	1	1	1	1
IOMEGA ZIP-IDE250 (ATA)	1, 2	1, 2	1, 2	1, 2
IOMEGA ZIP-USB (USB)	1	1	1	
Keytronic* Pro Pilot	1, 2	1, 2	1, 2	1, 2
Logitech* MiniWheel Mouse	1, 2	1, 2	1	1, 2
Microsoft* Intellimouse Optical	1, 2	1, 2	1, 2	1, 2
Sony* PCGA-UFD5	1, 2	1, 2	1, 2	
Teac* FD05PUB (USB)	1, 2			
Teac FD235HF	1, 2	1, 2	1, 2	1, 2
Tape Drives				
Sony* SDX-500C/BM	1			1
Seagate* STD2401LW-S	1	1	1	1
Keyboard/Video/Mouse switch boxes				
Avocent* 1160ES	1, 2	1, 2	1, 2	1, 2
Belkin* F1D108-OSD	1, 2	1, 2	1, 2	1, 2

~You will need to go to the Red Hat web site and download patch #18-5 to insure proper installation:

<http://rhn.redhat.com/errata/RHBA-2002-110.html>>

4.1 Hard Disk Drives

The hard drives listed in the following table have been tested with the server board SE7500WV2 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* 2000 Advanced Server
2	Red Hat* Linux* 7.3
3	Novell* NetWare* 6
4	SuSE* Professional* 8

Manufacturer	Model Number	Product Family	Interface	RPM	Drive size (GB)	Tested Operating Systems
IBM*	IC35L120AVVA07	Deskstar	ATA	7,200	123	1, 2, 3, 4
Maxtor*	4G160J8	Neptune D540DX	ATA	5,400	160	1, 2, 3, 4
Maxtor MX	6L080J4	Viper D740-6L	ATA	7,200	80	1, 2, 3, 4
Maxtor	KU73J01703B	Atlas III	SCA-320	10,000	73	1, 2, 3, 4
Maxtor	KW18J01E-030Z	Atlas III	SCA-160	10,000	18	1, 2, 3, 4
Samsung*	SP4004H ATA100	SpinPoint P20	ATA	7,200	40	1, 2, 3, 4
Seagate*	ST318406LC	Cheetah 36ES	U160	10,000	18	1, 2, 3, 4
Seagate	ST318406LC	Cheetah 36ES	U160	10,000	18	1, 2, 3, 4
Seagate	ST380021A	Barracuda 4	ATA	7,200	80	1, 2, 3, 4