



# **Intel<sup>®</sup> S815EBM1 Server Board Tested Hardware & Operating System List**



**Revision 2.0**

**January 2003**

**Enterprise Platforms and Services Division**

## ***Revision History***

<b>Date</b>	<b>Revision Number</b>	<b>Modifications</b>
July 2001	1.0	Initial Release
January 2003	2.0	Updated format and added additional OS support information.

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# 1. Introduction

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This document is intended to provide users of the **S815EBM1 server board** 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 S815EBM1 server board 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 operating systems and versions to which they were tested.

## 1.1 Test Overview

Testing performed on the S815EBM1 server board 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 and available slots on server board) 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.

## 1.2 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.

## 2. S815EBM1 Base System Configurations

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The following table lists the base configurations tested. Base configurations will change as new revisions of the S815EBM1 server board are released and/or new system BIOS is implemented in the factory. Each base configuration is assigned an identifier number which is referenced in the tables throughout this document. New base configurations may be added with each new release of this document.

Base System Identifier #	Part Number	BIOS Revision	Notes
1	A64608-800	EA81520A.86B.0006.D.0107111709	
2			

### 3. Supported Operating Systems

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The following table provides a list of supported operating systems for the S815EBM1 server board. Each of the listed operating systems was tested for compatibility with a base S815EBM1 configuration. OS Compatibility testing verifies that the OS will install and function with all onboard devices.

Operating System	Base Configuration Tested	Notes
Microsoft Windows* 2000 Advanced Server	1	
Red Hat Linux* 7.1	1	
Red Hat Linux 7.2	1	Baseline install only. Support of adapters is on a case by case basis.



## 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 Advanced Server	Red Hat Linux* v7.1 <sup>1</sup>
<b>PCI RAID/SCSI</b>		
ADAPTEC 2100S Catapult	1	
ICP-VORTEX GDT4523RZ	1	
MYLEX AcceleRAID 170	1	
PROMISE FastTrak100	1	
ADAPTEC AHA-2940U2W	1	1
ADAPTEC ASC-29160N	1	1
QLOGIC QLA12160A	1	1
<b>PCI Fiber Channel Host Adapters</b>		
QLOGIC QLA2200/66	1	1
<b>Network Interface Controllers</b>		
INTEL PRO/100+ Server (PILA8470B)	1	1
INTEL PRO/100 Dual Port (PILA8472)	1	1
INTEL PRO/100+ Server S (PLWA8474BUS)	1	1
DLINK DFE - 530/TX+	1	1
3COM 3C980C-TXM	1	1
3COM 3C905C-TX-M	1	1

<sup>1</sup> Red Hat Linux\* 7.2 support for adapters is on a case by case basis.

**Modems**

3COM OFFICECONNECT 56Ke (3CP3294)	1	1
3COM Performance Pro Modem (3CP5610A)	1	1

**Tape Drives**

SEAGATE STT6201U-R (USB)	1	
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**CD-ROM Drives**

TEAC CD-224E (ATA)	1	1
SAMSUNG sn-124q (ATA33)	1	1
TEAC CD-540E (ATA)	1	1
MITSUMI CRMC-FX4824T (ATA33)	1	1
TOSHIBA XM-6702B (ATA33)	1	1

**DVD Drives**

TOSHIBA SD-C2502 (ATA33)	1	1
TOSHIBA SD-M1502 (ATA33)	1	1
HITACHI GD-7000 (ATA33)	1	1
SAMSUNG SD-612 (ATA33)	1	1

**Removable Drives**

TEAC FD-235HF (FLOPPY)	1	1
TEAC FDO5PUB (USB)	1	1
IOMEGA ZIP-250MB (USB)	1	1
FUJITSU DynaMO 1300SF + USB	1	
IOMEGA CD-RW 4x4x6 (USB)	1	1
TEAC CDW54E/KIT/USB	1	1

**Hard Drives**

SEAGATE ST340823A (ATA100)	1	1
SEAGATE ST380020A (ATA100)	1	1
FUJITSU MPG3204AH (ATA100)	1	1
IBM DTLA-307075 (ATA100)	1	1
QUANTUM QMP60000-AS-A (ATA100)	1	1
SAMSUNG SP4004H (ATA100)	1	1
SEAGATE ST340824A (ATA100)	1	1