



Server WHQL Testing Services
Enterprise Platforms and Services Division

Intel[®] Server Board S845WD1-E

Server Test Submission (STS) Report **For the Microsoft[®] Windows[®] Logo Program (WLP)**

7/30/2002

This report describes the S845WD1-E Server Platform Windows Logo Program test run conducted by Intel Enterprise Platforms and Services Division (EPSD).

Purpose of this WLP Submission:

First-Time WHQL submission for the Intel[®] Server Board S845WD1-E.

Run Type:	Check one	Comments
First run new product	<input checked="" type="checkbox"/>	First run for Product launch
Board HW update	<input type="checkbox"/>	ECO # or PCN change
BIOS/Firmware update	<input type="checkbox"/>	Updated BIOS or Firmware version
OS update	<input type="checkbox"/>	New Microsoft operating system release

Revision History and Disclaimers

Revision History		
Revision	Date	Comments
1.0	7/30/2002	STS Report for WLP First-Time Submission for Intel® Server Board S845WD1-E.

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Introduction

This report provides an overview of the testing conducted on the S845WD1-E server board by Intel EPSSD and provides details about this testing run.

Overview of Contents

Section	Content
Introduction	Brief descriptions of the sections in the report. Table listing terms and definitions.
Server Product Submission Information	Submission information, ID # and final server board configuration upon completion of WLP including HW, Driver version, BIOS version, and Board AA number
HCT	All HCT's used during testing
Errata and Contingencies	All Microsoft* errata or contingencies used during testing

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab. For more information visit the WHQL home page at: http://www.microsoft.com/hwdg/hwtest/default.asp
HCT	Hardware Compatibility Tests. For latest Server HCTs visit: http://www.microsoft.com/hwdg/hwtest/devices/systems.asp?area=syssrv-srvr
WLP	Windows Logo Program. For further information see: http://www.microsoft.com/hwdg/hwtest/default.asp
HCL	Windows Hardware Compatibility List. You can view the HCL at: http://www.microsoft.com/hcl/
WLPQS	Windows Logo Program Qualification Service – Secure online web site used to submit products for logo qualification and review submission history. https://winqual.microsoft.com/

Server Board Submission Information

Intel Server Board Submission Report: Completion of WLP

Data in this section reflects system submission information at the time of WLP submission.

Submission Information

Submission ID		
Submission ID / Master ID	614976	
Submission Type		
	Check Submission Type	Comments
First-Time Hardware and Driver Test Submission	<input checked="" type="checkbox"/>	Required for first time product submissions
Update Hardware and Driver Test Submission	<input type="checkbox"/>	Required for Hardware and BIOS/Firmware Updates
Product Category		
Hardware Category	PC System or Server	
Operating System Selected	Windows* 2000	
Product Detail		
General Product Information		
Equipment Type	Server	
Primary Target Market	Business/Corporate	
Compliance	Server Design Guide (SDG) 2.0	
Testing Matrix (optional)		
	Check Tested	Comments
PAE_Tested	<input checked="" type="checkbox"/>	Supports 4GB or more of memory
Characterization (optional)		
	Check appropriate options	Comments
Web Server	<input checked="" type="checkbox"/>	
SQL Database Server	<input checked="" type="checkbox"/>	
File Server	<input checked="" type="checkbox"/>	

Server Board Configuration Information

Processor			
Quantity	1		
Front Side Bus Speed	400\533 MHz		
Family/Model	Intel® Pentium® 4 Processor		
Speed	2.52GHz/533, 2.40GHz/533, 2.26GHz/533		
System Memory			
Amount Installed	2GB		
Memory Type	ECC DDR266 memory		
Power Management			
ACPI Sleep States (S1, S2, S3, S4)	S1, S2, S3, S4		
Server Board Product			
System uses logo'd motherboard	NO (Server boards are <u>NOT</u> eligible for logo under the Microsoft* Motherboard logo program)		
Board AA #/Fab	AA-AXXXXX-200		
Board Manufacturer	Intel Corporation		
Board Model	S845WD1-E		
Northbridge* Chipset Manufacturer	Intel Corporation		
Northbridge Chipset Model	845E		
Southbridge* Chipset Manufacturer	Intel Corporation		
Southbridge Chipset Model	845E		
BIOS			
BIOS Manufacturer	AMI*		
BIOS Version	Production 3.0		
BIOS Date	6/26/2002		
BIOS URL (For Updates)	http://developer.intel.com/support/motherboards/server/s845wd1-e/		
Bus Types			
	Check all that Apply		Check all that Apply
PS/2	<input checked="" type="checkbox"/>	AGP*	<input checked="" type="checkbox"/>
1394	<input type="checkbox"/>	PCCard* (16-bit)	<input type="checkbox"/>
CF (Compact Flash)	<input type="checkbox"/>	CardBus* (32-bit)	<input type="checkbox"/>
PCI	<input checked="" type="checkbox"/>	USB	<input checked="" type="checkbox"/>
Mini-PCI	<input type="checkbox"/>	USB 2.0	<input type="checkbox"/>
AMR	<input type="checkbox"/>	InfiniBand*	<input type="checkbox"/>
ACR	<input type="checkbox"/>	Bluetooth*	<input type="checkbox"/>
COM (Serial)	<input checked="" type="checkbox"/>		

Integrated Components			
	Check all that Apply		Check all that Apply
Audio	<input type="checkbox"/>	Display	<input checked="" type="checkbox"/>
IDE	<input checked="" type="checkbox"/>	Networking	<input checked="" type="checkbox"/>
SCSI	<input type="checkbox"/>	RAID	<input checked="" type="checkbox"/>
Modem	<input type="checkbox"/>	Bluetooth*	<input type="checkbox"/>

Onboard Integrated Devices and Drivers

Data in this section reflects system configuration at the time of WLP submission. The latest drivers for the S845WD1-E server board are available for download at:

<http://support.intel.com/support/motherboards/server/S845WD1-E/>

Technology	OS	Version
LAN Onboard dual Intel® PRO 100+ Server Ethernet Controller (Intel® 82550PM Controller)	Windows* 2000	6.01.03.0000
	Windows .NET*	N/A
ATA Promise* PDC20267 dual channel ATA/100 RAID Controller	Windows 2000	2.30.140.12
	Windows .NET	N/A
Display ATI Rage* XL VGA PCI Graphics (with 2MB of Memory)	Windows 2000	5.00.2195.5012
	Windows .NET	N/A

Product Data for HCL: Completion of WLP

Data in this section reflects product data for HCL at time of WLP submission.

Product Data		
Announcement Date	5/31/2002	
Product Name	S845WD1-E	
Additional Product Names	S845WD1 S845WD11U S845WD1E S845WD1-E / SC5100 Intel® S845WD1-E Server	
Supported Platforms		
	Check Tested	Comments
Windows 2000 Server	<input checked="" type="checkbox"/>	

Hardware Compatibility Tests Used (HCT)

Microsoft* WHQL Server Testing Home Page:

<http://www.microsoft.com/hwdq/hwtest/devices/systems.asp?area=sysrv-srvr>.

Please check this website regularly for test kit updates.

Operating Systems	Notes	HCT
Windows* 2000	Readme for Microsoft Windows Logo HCT 9.502 http://www.microsoft.com/hwtest/search/details.asp?ID=337	HCT 9.502 Test Kit (35.4 MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE
	Logo'd Components Index Full Install	Logo'd Components Index Full Install (~9.8 MB) http://download.microsoft.com/download/whistler/Install/20.0/W982KMeXP/EN-US/logoidx.exe
	Contents of the HCT 9.5 Test Kit http://www.microsoft.com/hwtest/search/details.asp?ID=231	HCT 9.5 Test Kit (140 MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/hct19991122.exe
	HCT 9.502 Test Procedures for Systems, Servers, and Cluster Servers (Windows 2000) http://download.microsoft.com/download/whistler/Docs/Docs/W982KMeXP/EN-US/HCT9502_Systems.exe	HCT 9.502 Test Kit (35.4MB) http://download.microsoft.com/download/whistler/Tools/Tools/W98NT42KMeXP/EN-US/HCT9502UPD.EXE
	391 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe	Beta NDIS Test Update (ndt391.exe) (2MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt391.exe
	386 NDIS Intermediate Drivers Instructions http://download.microsoft.com/download/whistler/Install/20.1/W982KMeXP/EN-US/NDISIntermedDriver.exe	NDIS Test Update for Windows 98 SE, Windows Me, and Windows 2000 (ndt386.exe) (2.02MB) http://download.microsoft.com/download/whistler/Install/12.2/W982KMeXP/EN-US/ndt386.exe

Errata and Contingencies

Microsoft System HCT Errata list is available at:

<http://www.microsoft.com/hwtest/search/results.asp?Type=Err&Key=System&Sort=Title>

Sample List:

Operating System	Identification Number	Title
Windows* 2000	298	PCI Power Management Register Interface Test: False Failure
Windows 2000	418	ACPI Pre-OS tests are not required for system submissions
Windows 2000	702	Audio tests are not required for servers that do not implement audio devices
Windows 2000	719	DVD test cannot be run on systems without a DVD drive

S845WD1-E Submission Readme File

Effective May 1, 2002, the new Microsoft standardized Readme form will be required for all hardware submissions that include any of the following testing exceptions:

- Test failures
- Tests not run
- Missing test logs
- Inconclusive test results

All testing exceptions must be identified with a valid Errata ID, Incident ID, or Contingency ID provided by WHQL. The new Microsoft standardized Readme file is available for download at:

<http://download.microsoft.com/download/whistler/install/1.0/w98nt42kmexp/en-us/readme.exe>

Testing Exceptions for S845WD1-E Submission

Data in this section reflects product data and test exceptions listed in section 2 of the S845WD1-E Readme file at time of WLP submission.

Operating system (Windows* XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows 2000	Errata	298
Failing test name	PCI Power Management Register Interface	
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	Errata Title: PCI Power Management Register Interface Test: False Failure Log File: pcicap.log Problem: Following errors occurs in the PCICAP log file: <<< FAILED 4.4.2 >>> PowerState field in PMCSR register is not writable. Solution: Refer to Errata 298 for details of above acceptable failure.	
Additional information (for example, test system in a multiple system configuration)		

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows 2000	Errata	702
Failing test name	DSound, Full Duplex, Mixer Driver, Wave Driver	
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	Servers that do not ship with an audio device are not required to run the following audio tests: <ul style="list-style-type: none"> • Direct Sound Driver • Full Duplex • Mixer Driver • Wave Driver Refer to errata 702 titled: <u>Audio tests are not required for servers that do not implement audio devices</u>	
Additional information (for example, test system in a multiple system configuration)		

Operating system (Windows XP, Windows 2000, etc.)	Failure type (Contingency, Errata, Incident)	ID number
Windows 2000	Errata	719
Failing test name	DVD Test	
Applicable error message (Type N/A if the error message or failing text is excessive or if there is no text)	DVD test not required for systems that ship without a DVD drive. Refer to errata titled: <u>DVD test cannot be run on systems without a DVD drive</u>	
Additional information (for example, test system in a multiple system configuration)		

Additional Information

Data in this section reflects product data and additional information entered in section 3 of the S845WD1-E Readme file at time of WLP submission.

- No additional information needed for submission readme file.

Appendix A – Submission History

Submission history for the Intel Server Board S845WD1-E:

WLPQS Submission History					
Submission ID	Type	Date	Processor Speeds	Board Revision	BIOS Version
614976	First-Time Submission	7/30/2002	2.52GHz/533, 2.40GHz/533, 2.26GHz/533	AA-A83712-200	Production Release 3