

96ND500G-ST-WD10KE

Test Report

Test Requestor		Job Title		Release Date	
Testing Engineer		Job Title		Revision	V1.0
Approved by		Job Title		Release Status	Preliminary/ Formal Release

Revision History:

Revision Date	Revision	Description	Creator
2012/07/27	1.0	First version released	

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Test Item List Summary

Add-on Card compatibility test result

P/N	Description	Result	MPN
96ND500G-ST-WD10KE	WD 500G 2.5" SATA 24X7 10KRPM 64M(G)	Pass	WD5000BHTZ

Installed OS and Driver test result

OS Installed	Driver version	Result	Remark
Windows XP (SP3)	Integrated	Pass	
Windows 7 (32 bit)	Integrated	Pass	

1. Product Information:

Advantech Part Number	96ND500G-ST-WD10KE
Manufacturer	WESTERN DIGITAL
Model Number	WD5000BHTZ
Interface Type	SATA 6 Gb/s
Description	WD 500G 2.5" SATA 24X7 10KRPM 64M(G)
Output Connectors	
Performance Specifications	Buffer to host: 6Gb/s
	Host to/from drive: 200 MB/s sustained (max)
	Average seek: 3.6 ms (read), 4.2 ms (write)
	Rotational speed: 10,000 RPM
	Latency: 3 ms average
	Read cache: Adaptive
	Write cache: Yes
	Buffer: 64 MB
	Drive ready time: 8 sec. typical
	Load/unload cycles: 600,000 minimum
	LBA Support: Yes
Environmental Specifications	Operating Temperature: 5° C to 55° C
	Non-Operating Temperature: -40° C to 70° C
	MTBF: 1,400,000 Hours
Key Features & Benefits	Formatted capacity:250 GB
	User sectors per drive: 488,397,168
	Form factor: 2.5-inch (WD2500BHTZ 2)
	Advanced Format (AF): Yes
	SATA latching connector: Yes
	RoHS compliant :Yes

Photo:



2. Test Platform

MB/SBC	PCM-9562N-S6A1E		
PCB version	A1-01	CPU	Intel N450
BIOS version	V1.11	DRAM	96SD2-1G667NN-AP2
Core Chipset	ICH8M	Backplane	N/A
VGA Chipset	Integrated	Other	

MB/SBC	SOM-6761FG-S6A1E		
PCB version	A1-03	CPU	Intel N270
BIOS version	V1.13	DRAM	96SD2-1G667NN-AP2
Core Chipset	ICH7M	Backplane	SOM-DB5700-00A2E
VGA Chipset	Integrated	Other	

MB/SBC	AIMB-212N-S6A1E		
PCB version	A1-03	CPU	Atom 1.6GHz
BIOS version	V1.15	DRAM	96SD2-1G667NN-AP2
Core Chipset	ICH8M	Backplane	N/A
VGA Chipset	Integrated	Other	

MB/SBC	MIO-5250N-S6A1E		
PCB version	A1-01	CPU	Intel N270
BIOS version	V1.12	DRAM	96SD2-1G667NN-AP2
Core Chipset	CG82NM10 SLGXX B0	Backplane	N/A
VGA Chipset	Integrated	Other	

3. Test Software

Utilities	Version / Description	Result
HD Tune Pro	V5.0	Pass

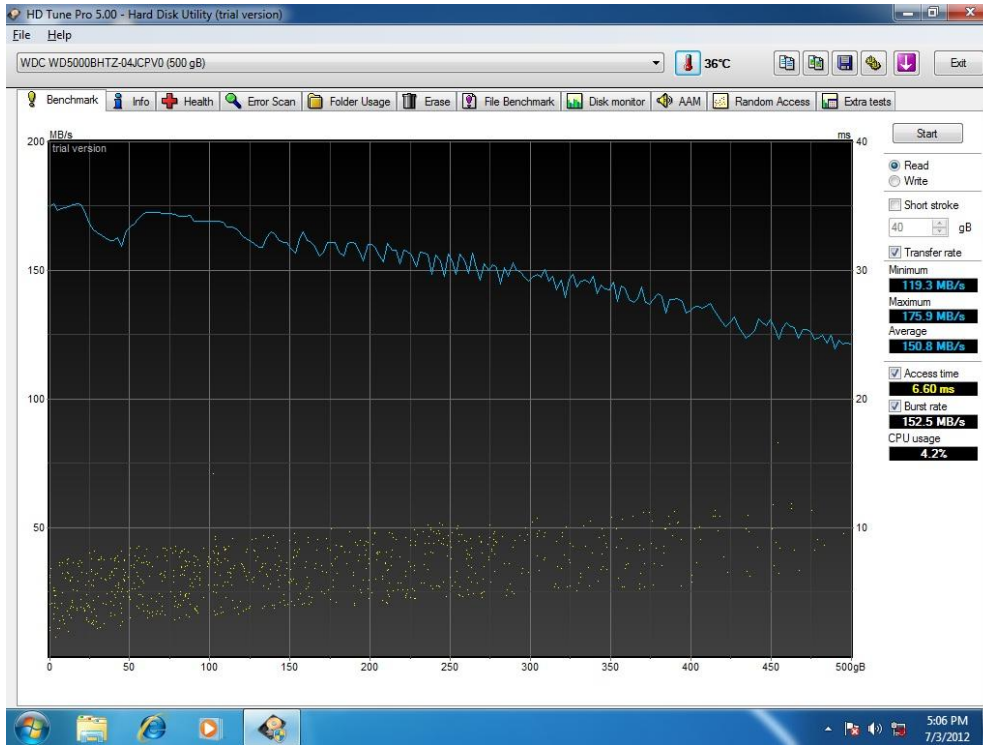
4. Appendix

Product Info with OS:

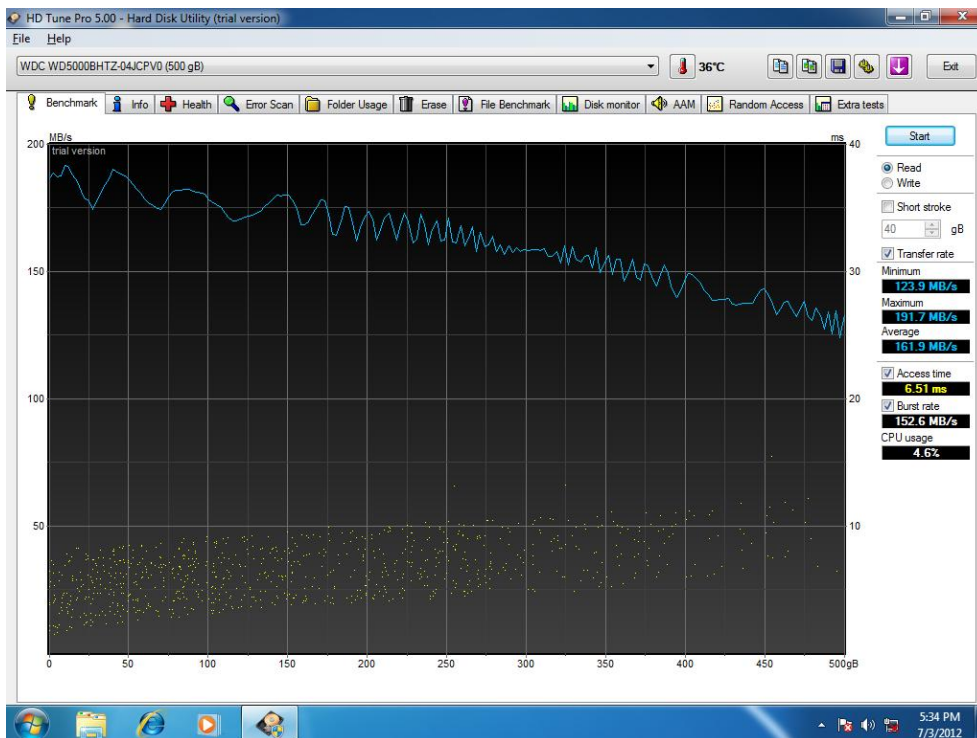
Firmware version:	04.06A00	Standard:	ATA8-ACS - SATA III
Serial number:	WD-WXB1E81KSTH2	Supported:	UDMA Mode 6
Capacity:	500.1 gB (465.8 GB)	Active:	UDMA Mode 5
Buffer:	n/a	Average speed:	147 MB/s
Sector size	512 bytes	Rotation speed:	10000 RPM

Firmware version:	04.06A00	Standard:	ATA8-ACS - SATA III
Serial number:	WD-WX81CC162905	Supported:	UDMA Mode 6
Capacity:	500.1 gB (465.8 GB)	Active:	UDMA Mode 5
Buffer:	n/a	Average speed:	165 MB/s
Sector size	512 bytes	Rotation speed:	10000 RPM

HD Tune with Read Test: (Average 150.8 MB/S)



HD Tune with Read Test: (Average 161.9 MB/S)



HD Tune with Write Test: (Average 153.7 MB/S)



HD Tune with Write Test: (Average 160.5 MB/S)

