

Feature table overview

BIOS Revision	KD7_AE.BIN
# DIMM slot	4
# AGP slot	1
# PCI slot	6
# Serial Port	2
# Parallel Port	1
# USB 2.0 Port	6
# IR Port	1
# Cooler Connector	4
# IDE Channel	4
# FDD Channel	1
# PS2 Port	1
# On board Audio	V
# On board RAID	V
# On board LAN	V
Supports	
Memory supported Maximum	2GB
IDE Channel Maximum Transfer-rate	133
Audio Channel Maximum supported	5.1
Support SoftMenu II / III	SoftMenu III
CPU FSB Clock Maximum	250MHZ
Multiplier Factor Maximum	13.5
Vcore Voltage Maximum	2.325
DIMM VCC Voltage	3.25
Others	
Support Wake Up LAN	V
Support Wake On Ring	V
Support Battery for Real Time Clock	V
Hardware Monitor	V

Sample revision history of the lab

Date Entered	Hardware Rev.	Software Rev.	Stage	Quantity
2002/7/22	V0.2	KD7 AE.B02	EVT	Normal
2002/8/12	V0.21	KD7 AE.BIN	DVT	Normal



KD7-RAID Test Report

Compatibility

CPU test

Configuration:

BIOS KD7_AE.B02
OS Win2K
Memory APACER 256MB*4
FDD NEC 1.44MB
HDD WD WD200BB
CD-ROM TEAC CD-540E
Mouse Logitech M-S24
Keyboard GENUINE
Power Supply Supa Life MPT-301

Purpose: (H.M= Hardware Monitor)(CPU change: High to Low)

CPU ID(ES/Tray/Box)	Clock	L2 Cache	Real clock	Measure Vcore /H.M		Vcore Range	Install Win2K	MP4? MP2	RTCW
Duron 600	100*6	64K	602.47	1.518	1.52	1.875~1.375	V	V	V
Duron 700	100*7	64K	702.89	1.524	1.52	1.85~1.3	V	V	V
Duron 750	100*7.5	64L	753.10	1.614	1.61	1.95~1.5	V	V	V
Duron 900	100*9	64K	903.71	1.632	1.63	2.0~1.5	V	V	V
Duron 1G	100*10	64K	1003.97	1.782	1.79	2.0~1.6	V	V	V
Duron 1.1G	100*11	64K	1104.41	1.782	1.79	2.0~1.6	V	V	V
Duron 1.2G	100*12	64K	1204.81	1.783	1.79	1.95~1.6	V	V	V
Duron 1.3G	100*13	64K	1305.36	1.783	1.76	2.0~1.6	V	V	V
Athlon 700	100*7	256K	702.89	1.782	1.78	2.0~1.6	V	V	V
Athlon 800	100*8	256K	803.30	1.73	1.72	2.05~1.575	V	V	V
Athlon 850	100*8.5	256K	853.51	1.783	1.79	2.0~1.6	V	V	V
Athlon 950	100*9.5	256K	953.92	1.782	1.8	2.0~1.6	V	V	V
Athlon 1.1G	100*11	256K	1104.54	1.784	1.79	1.825~1.625	V	V	V
Athlon 1.2G	100*12	256K	1204.95	1.783	1.79	2.0~1.6	V	V	V
Athlon 1G	133*7.5	256K	1000.42	1.773	1.77	2.0~1.6	V	V	V
Athlon 1.33G	133*10	256K	1333.89	1.783	1.79	2.2~1.6	V	V	V
Athlon 1.4G	133*10.5	256K	1400.58	1.782	1.77	2.1~1.575	V	V	V
Athlon XP 1500+	133*10	256K	1333.89	1.778	1.77	2.05~1.6	V	V	V
Athlon XP 1600+	133*10.5	256K	1400.58	1.705	1.79	2.25~1.65	V	V	V
Athlon XP 1700+	133*11	256K	1467.28	1.513	1.52	1.90~1.45	V	V	V
Athlon XP 1800+	133*11.5	256K	1533.98	1.738	1.74	2.05~1.575	V	V	V
Athlon XP 1900+	133*12	256K	1600.67	1.617	1.63	2.0~1.5	V	V	V
Athlon XP 2000+	133*12.5	256K	1667.37	1.768	1.76	2.25~1.65	V	V	V
Athlon XP 2100+	133*13	256K	1733.22	1.763	1.78	2.2~1.6	V	V	V
Athlon XP 2200+	133*13.5	256K	1800.13	1.659	1.65	2.025~1.425	V	V	V

Tested by: Richael Chen

Approved by: Justin Chen



KD7-RAID Test Report

Memory modules test

Configuration:

BIOS	KD7_716S.BIN / KD7_AE.BIN
OS	Win2K + SP2
CPU 1	Duron 1.3G (100)
CPU 2	Athlon XP 2100+ (133)
CPU 3	Athlon XP 2200+ OC Athlon 1600 (166*10)
AGP	ABIT GF2 MX
HDD	IBM IC35L120AVVA07 ATA100
CD-ROM	TEAC 32X
Mouse	Logitech M-CQ38
Keyboard	ACER 6511-TW3C/B
Power Supply	Seventeam 300W

PC-3200 DDR400	FSB166				FSB133				FSB100			
	1	2	3	4	1	2	3	4	1	2	3	4
Capacity: 512MB												
A-DATA / Winbond / W942508BH-5 / SPD			V	V			V	V			V	V
Capacity: 256MB												
A-DATA / Winbond / W942508BH-5 / SPD			V	V			V	V			V	V
Enhanced / SPD			V	V			V	V			V	V
X-Treme / Sam / B3 / SPD			V	V			V	V			V	V
APACER / Samsung / K4H5608380-TCC4 / SPD			V	V			V	V			V	V

PC-2700 DDR333	FSB166				FSB133				FSB100			
	1	2	3	4	1	2	3	4	1	2	3	4
Capacity: 512MB												
APACER / Winbond / W942508AH-6 / SPD			V	V			V	V			V	V
APACER / Samsung / K4H560828C-TCB3 / SPD			V	V			V	V			V	V
Kingston / Winbond / W942508BH-6 / SPD			V	V			V	V			V	V
Capacity: 256MB												
APACER / Winbond / W942508AH-6 / SPD	V	V	V	V	V	V	V	V	V	V	V	V
APACER / Samsung / K4H560838C-TCB3 / SPD	V	V	V	V	V	V	V	V	V	V	V	V
TWINMOS / hynix / HY5DU28822AT-K / SPD			V	V			V	V			V	V
KINGMAX / KDL684T4A2A-05 / SPD			V	V			V	V			V	V
NANYA / NT5DS16M8AT-6 / SPD			V	V			V	V			V	V
Transcend / Samsung / K4H560838C-TCB3 / SPD		V	V	V		V	V	V		V	V	V
Capacity: 128MB												
KINGMAX / KDL684T4A2A-05 / SPD				V				V				V
MICRON / MT46V16M8-6 / SPD		V	V	V		V	V	V		V	V	V

PC-2100 DDR266	FSB166				FSB133				FSB100			
	1	2	3	4	1	2	3	4	1	2	3	4
Capacity: 512MB												
NANYA / NT5DS32M8AT-7K / SPD						V	V	V		V	V	V
APACER / SAMSUNG/K4H560838B-TCB0/SPD						V	V	V		V	V	V

APACER / SAMSUNG/K4H560838C-TCB0/SPD						V	V	V		V	V	V
APACER / Infineon / HYB25D256800AT-7 / SPD ®					V	V	V	V	V	V	V	V
Corsair / NANYA / NT5DS32M8AT-7K / SPD						V	V	V		V	V	V
Crucial / Micron / MT46V32M8-75A / ECC / SPD						V	V	V		V	V	V
APACER / Infineon / HYB25D256800AT-7 / SPD						V	V	V		V	V	V
TWINMOS / Winbond / W942508h-75 / SPD						V	V	V		V	V	V
Capacity: 256MB												
TWINMOS / HY / HY5DU28822 / SPD							V	V			V	V
High Connection / NANYA / NT5DS16M8AT-7K / SPD							V	V			V	V
KINGMAX / Samsung / K4H280838B-TCB0 / SPD						V	V	V		V	V	V
KINGMAX / KINGMAX / KDL684T4A2A-07A/ SPD						V	V	V		V	V	V
KINGSTON / NANYA / NT5DS16M8AT-7K / SPD						V	V	V		V	V	V
LEMEL / ELIXIR / N2DS12880AT-75B / SPD						V	V	V		V	V	V
Transcend / MOSEL / V58C2128804SAT75 / SPD						V	V	V		V	V	V
Crucial / MICRON / MT46V16M8-75A / SPD ®							V	V			V	V
Crucial / MICRON/MT46V16M8-75A / SPD / ECC						V	V	V		V	V	V
NANYA / NT5DS32M8AT-7K / SPD						V	V	V		V	V	V
Capacity: 128MB												
APACER / SAMSUNG / K4H280838B-TCB0 / SPD					V	V	V	V	V	V	V	V
TWINMOS / HY / HY5DU281622 / SPD						V	V	V		V	V	V
High Connection / NANYA / NT5DS16M8AT-7K / SPD							V	V			V	V
VIA / NANYA / NT5DS16M8AT-7K / SPD						V	V	V		V	V	V
KINGSTON / SAMSUNG / K4H280838B-TCB0 / SPD					V	V	V	V	V	V	V	V
Crucial/MICRON / MT46V16M8-8A / ECC/SPD					V	V	V	V	V	V	V	V
Capacity: 64MB												
Transcend / Samsung / K4H281638B-TCB0 / SPD					V	V	V	V	V	V	V	V

PC-1600 DDR200	FSB166				FSB133				FSB100			
	1	2	3	4	1	2	3	4	1	2	3	4
Capacity: 512MB												
APACER / IBM / N625804GT3B-8N / SPD											V	V
Capacity: 256MB												
Crucial / MICRON / MT46V16M8-8A / SPD ®									V	V	V	V
Infineon / HYB25D256800T-8 / SPD®									V	V	V	V
MICRON / MT46V16M8-8A / SPD										V	V	V
Capacity: 128MB												
Crucial / MICRON / MT46V16M8-8A / SPD ®									V	V	V	V
MICRON / MT46V16M8-8A / SPD									V	V	V	V

Tested by: Thomas Chen
Approved by: Justin Chen
IDE test
HDD/CD-ROM /DVD-ROM test
Configuration:
 BIOS KD7_AE.B02



KD7-RAID Test Report

OS Win2K SP2
Memory Winbond 256MB*2
CPU Athlon XP 1800+
VGA ABIT GF4 MX420
FDD Samsung 1.44MB
Mouse Logitech M-S69
Keyboard COMPAQ 6511-VA
Power Supply Bestec ATX-1957D2

HDD Compatibility on P0/P1 (S0/S1: CD-ROM), Copy 500M files

Primary/Secondary (Master & Slave) channels boot (with operation system setup) at least once.

ID P0	ID P1	ID S0	ID S1	Mode		Auto detect	
				P0	P1	P0	P1
				S0	S1		
Seagate ST340016A	IBM IC35L040AVV A07-0	TEAC CD-540E	Litec-on LTN-526S	ATA100	ATA100	V	V
				ATA33	ATA33		
Maxtor 4G160J8	Fujitsu MPG3307AH	TEAC CD-540E	Litec-on LTN-526S	ATA133	ATA100	V	V
				AT33	AT33		
Maxtor D740X-6L	Seagate ST340810A	ACER 652P	BTC BCD F563E	ATA133	ATA100	V	V
				ATA33	ATA33		
WD WD400AB	Maxtor 4D040H2	ACER 652P	BTC BCD F563E	ATA100	ATA100	V	V
				ATA33	ATA33		
Maxtor 541DX	WD WD400BB	Genuine AD12S	ASUS DVD-E608	ATA100	ATA100	V	V
				ATA33	ATA33		
WD WD400BB	Maxtor 541DX	ASUS DVD-E608	Genuine AD12S	ATA100	ATA100	V	V
				ATA33	ATA33		
Seagate ST340016A	Maxtor 4G160J8	AFREEY DD-4010E	Genuine LCD-50AF	ATA100	ATA133	V	V
				ATA33	ATA33		
Seagate ST320410A	Fujitsu MPF3204AH	TEAC CD-540E	Aopen CRW3248	ATA100	ATA66	V	V
				DMA2	DMA2		

HDD Compatibility on S0/S1 (P0/P1: CD-ROM), Copy 500M files

ID P0	ID P1	ID S0	ID S1	Mode		Auto detect	
				P0	P1	S0	S1
				S0	S1		

BTC BCD F563E	TEAC CD-540E	IBM IC35L040AVV A07-0	WD WD400BB	ATA33	ATA33	V	V
				ATA100	ATA100		
BTC BCD F563E	TEAC CD-540E	Fujitsu MPG3307AH	Seagate ST340016A	AT33	AT33	V	V
				ATA100	ATA100		
Litec-on LTN-526S	ACER 652P	Seagate ST340810A	Maxtor D740X-6L	ATA33	ATA33	V	V
				ATA100	ATA133		
Litec-on LTN-526S	ACER 652P	Maxtor D740X-6L	Maxtor 4G160J8	ATA33	ATA33	V	V
				ATA133	ATA133		
ASUS DVD-E608	Genuine AD12S	WD WD400AB	Maxtor 541DX	ATA33	ATA33	V	V
				ATA100	ATA100		
Genuine AD12S	ASUS DVD-E608	Maxtor 541DX	WD WD400BB	AT33	AT33	V	V
				ATA100	ATA100		
AFREEY DD-4010E	LEMEL LCD-50AF	Seagate ST340016A	Maxtor 4G160J8	ATA33	ATA33	V	V
				ATA100	ATA100		
LEMEL LCD-50AF	AFREEY DD-4010E	Maxtor 4G160J8	Seagate ST340016A	AT33	AT33	V	V
				ATA100	ATA100		

CD-ROM/DVD-ROM Compatibility ON P1/S1 (P0/S0: HDD)

ID P0	ID P1	ID S0	ID S1	Auto Detect		Playing VCD		Result
				P1	S1	P1	S1	
WD WD400AB	TEAC CD-540E	Seagate ST340016A	Pioneer DVD-106S	V	V	V	V	V
WD WD400AB	Creative DVD-1240E	Seagate ST340016A	Acer 652p	V	V	V	V	V
Fujitsu MPG3307AH	Pioneer DVD-106S	IBM IC35L040AVV A07-0	BTC BCD F563E	V	V	V	V	V
Fujitsu MPG3307AH	Litec-on LTN-526S	IBM IC35L040AVV A07-0	Creative DVD-1240E	V	V	V	V	V
Maxtor 541DX	Genuine AD12S	Seagate ST320410A	Aopen CRW3248	V	V	V	V	V
Maxtor 541DX	Aopen CRW3248	Seagate ST320410A	Genuine AD12S	V	V	V	V	V
IBM IC35L040AVV A07-0	AFREEY DD-4010E	Fujitsu MPG3307AH	Genuine LCD-50AF	V	V	V	V	V

CD-ROM/DVD-ROM Compatibility ON P0/S0 (P1/S1: HDD)

ID P0	ID P1	ID S0	ID S1	Auto Detect		Playing VCD		Result
				P0	S0	P0	S0	



KD7-RAID Test Report

Acer 652p	Maxtor 4G160J8	Pioneer DVD-106S	Seagate ST340016A	V	V	V	V	V
BTC BCD F563E	Maxtor 4G160J8	Creative DVD-1240E	Seagate ST320410A	V	V	V	V	V
Creative DVD-106S	Fujitsu MPG3307AH	Litec-on LTN-526S	WD WD400AB	V	V	V	V	V
Creative DVD-1240E	Fujitsu MPG3307AH	TEAC CD-540E	WD WD400AB	V	V	V	V	V
AFREEY CD-2052E	IBM IC35L040AVV A07-0	ACTIMA A52T	Maxtor D740X-6L	V	V	V	V	V
Litec-on LTN-526S	IBM IC35L040AVV A07-0	BTC BCD F563E	Maxtor D740X-6L	V	V	V	V	X

CD-RW/CD-ROM (DVD-ROM) Compatibility

ID P0	ID P1	ID S0	ID S1	CD-RW Rate	Result	Burn in time
IBM IC35L040AVV A07-0	Seagate ST320410A	Aopen CRW3248	TEAC CD-540E	32X 4,800KB/S	V	3:36
IBM IC35L040AVV A07-0	Seagate ST320410A	TEAC CD-540E	Aopen CRW3248	32X 4,800KB/S	V	3:36
IBM IC35L040AVV A07-0	Seagate ST320410A	TEAC CD-540E	YAMAHA CRW3200E	24X 3,600KB/S	V	4:40
IBM IC35L040AVV A07-0	Seagate ST320410A	YAMAHA CRW3200E	TEAC CD-540E	24X 3,600KB/S	V	4:40
Genuine AD12S	RICOH MP9120A	Seagate ST320410A	Fujitsu MPG3307AH	12X 1,800KB/S	V	8:50
RICOH MP9120A	TEAC CD-540E	Seagate ST320410A	Fujitsu MPG3307AH	12X 1,800KB/S	V	12:05
Seagate ST320410A	PLEXTOR PX-W2410TA	TEAC CD-540E	NIL	24X 3,600KB/S	V	4:50

HDD/ATAPI devices mixed on P0/P1 , S0/S1

Drive List

HDD 1	Maxtor 4G160J8 ATA133 160G
HDD 2	Seagate ST340016A 40G
HDD 3	Maxtor D740X-6L 80G ATA133



KD7-RAID Test Report

HDD 4 Fujitsu MPG3307AH 30G
HDD 5 IBM IC35L040AVVA07-0 40G
DVD-ROM 1 Pioneer DVD-106S
DVD-ROM 2 Creative DVD-1240E
CD-ROM 1 TEAC CD-540E
CD-ROM 2 Lite-on LTN-526S
ZIP Driver IOMEGA Z100ATAPI
LS-120 Driver LKM-F934-1

Item	IDE Channels				Copy file / Playing film	Result
	P/M	P/S	S/M	S/S		
1	HDD 1	Not Connected	CD-ROM	Not Connected	CD-ROM film playing	V
2	DVD 1	HDD 1	Not Connected	Not Connected	Install RTCW	V
3	HDD 1	CD-ROM	Not Connected	Not Connected	Copy 595MB Files	V
4	Not Connected	HDD 1	DVD 1	Not Connected	DVD film playing	V
5	HDD 2	CD-ROM	DVD 1	Not Connected	DVD film playing	V
6	DVD 1	CD-ROM	HDD 2	Not Connected	DVD film playing	V
7	HDD 2	CD-ROM	DVD 1	Not Connected	Copy 595MB Files	V
8	CD-ROM	HDD 4	DVD 1	Not Connected	Copy 311MB Files	V
9	HDD 3	HDD 4	CD-ROM	Not Connected	CD-ROM film playing	V
10	HDD 3	HDD 4	HDD 5	CD-ROM	Copy 311MB Files	V
11	HDD 3	HDD 4	HDD 5	HDD 2	Copy 311MB Files	V
12	HDD 3	CD-ROM 2	ZIP	Not Connected	VCD film playing	V
13	HDD 3	CD-ROM 2	LS-120	Not Connected	VCD film playing	V
14	HDD 3	DVD 2	ZIP	Not Connected	DVD film playing	V
15	HDD 3	DVD 2	LS-120	Not Connected	DVD film playing	V
16	HDD 3	DVD 2	LS-120	ZIP	Copy 100MB Files	V
17	HDD 3	DVD 2	ZIP	LS-120	Copy 100MB Files	V

Ghost utilities tool

Purpose: Ghost from Source Hard Disk Drive to Target

Hard Disk Drive List

HDD 1 Seagate ST340016A 40G
HDD 2 IBM IC35L040AVVA07-0 40G
HDD 3 Fujitsu MPG3307AH 30G
HDD 4 Maxtor 4G160J8 160G ATA133
HDD 5 Maxtor D740X-6L 80G ATA133

Source								Target								Result (MB/Min)
IDE1 /M	IDE1 /S	IDE2 /M	IDE2 /S	IDE3 /M	IDE3 /S	IDE4 /M	IDE4 /S	IDE1 /M	IDE1 /S	IDE2 /M	IDE2 /S	IDE3 /M	IDE3 /S	IDE4 /M	IDE4 /S	
1										2						1080
				3										4		1355
4												5				1677
					2						3					1434
		5							1							1706
						4		2								1986

Tested by: Vincent / Kevin

Approved by: Justin Chen

USB test

Configuration1:

BIOS KD7_AE.B02
OS WinXP
Memory Crucial / MT / 512MB / DDR266



KD7-RAID Test Report

CPU Athlon XP 2100+
 FDD NEC 1.44MB
 HDD Seagate ST340810A
 DVD-ROM HITACHI GD-2500
 Mouse Logitech M-S35
 Keyboard LEMEL 5121W
 Power Supply High Power HPC-340-101

PART 1: USB Device Interoperability Testing

1. Set up the USB HUB interoperability suite as indicated table 1 below:

USB Host Controller- Root port 1=USB Speakers

Root port 2=HUB #1

2. Devices detach and reattach, then validate all devices operate correctly.

3. Suspend system then resume the system through non-USB means, and validate all devices operate correctly.

USB1.1 Device used:

Device	Manufacturer	Model name
HUB	D-Link	DSB-H4
Scanner	UMAX	Astra 1200U
Mouse	Microsoft	Intellieye
Keyboard	Microsoft	Natural Keyboard pro
Webcam	Logitech	Qucik cam
Joystick	Logitech	WingMan
Storage	lomega	ZIP250

USB2.0 Device used:

Device	Manufacturer	Model name
CD-RW	Plextor	RXS88TU
Scanner	EPSON	1250
HUB#1	Double-H	DH-224A
HBU#2	Welland	UH-2UH4
HDD #3	BusLink	3.5" 40G
HDD #4	IBM	3.5" 30G

Table 1

HUB #1-Self Powered	HUB #2-Bus Powered	HUB #3-Self Powered
Port 1= HUB #2	Port 1= Mouse	Port 1= Joystick
Port 2= Webcam	Port 2= Keyboard	Port 2= Speaker
Port 3= Empty	Port 3= USB2.0 HDD	Port 3= ZIP250
Port 4= Empty	Port 4= HUB	Port 4= Empty

Result: PASS

Note:

You must stream audio through USB speakers before streaming video at all times during testing.

Purpose1: USB HUBs

1.The machine needs to be installed the device driver, if the system has got it.

2.Configured for all USB devices: (Vendor / Model)

Port 1	Port 2	Port 3	Port 4	Port 5	Port 6
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Double-H USB2.0 LAN	Logitech Webcam	lomeag ZIP250	Logitech Joystick	EPSON 1250 USB2.0 Scanner	UMAX 1220 Scanner
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Purpose2: Storage devices

- 1.The machine needs to be installed the device driver, if the system has got it.
2. Connected each device of all USB ports at the same time.
3. To read and write data on all devices at the same time.
1. Swap device on each USB port and to test devices again in the next time.

Status:

No.	Manufacturer Model	Pass(All)	Fail Status
1	Double-H USB2.0 LAN	V	
2	Logitech Webcam	V	
3	lomeag ZIP250	V	
4	Logitech Joystick	V	
5	EPSON 1250 USB2.0 Scanner	V	
6	UMAX 1220 Scanner	V	
7	Buslink USB2.0 40GB HDD	V	
8	Buslink USB2.0 6GB HDD	V	
9	TEAC USB2.0 CD-RW	V	
10	EPSON color 880 printer	V	
11	EPSON 2450 Scanner	V	
12	Microsoft Intellieye Mouse	V	

Connect Device (No.)						Result
USB 1	USB 2	USB 3	USB 4	USB 5	USB 6	
1	2	3	4	5	6	V
6	1	2	3	4	5	V
5	6	1	2	3	4	V
4	5	6	1	2	3	V
3	4	5	6	1	2	V
2	3	4	5	6	1	V
7	8	9	10	11	12	V
12	7	8	9	10	11	V
11	12	7	8	9	10	V
10	11	12	9	8	9	V
9	10	11	12	7	8	V
8	9	10	11	12	7	V

Purpose3: Other Devices

- 1.The machine needs to be installed the device driver, if the system has got it.
2. To ensure all the devices function work normal on each USB port.

TYPE	Vendor	Model Name	USB Port					
			USB 1	USB 2	USB 3	USB 4	USB 5	USB 6

Mouse	Microsoft	IntelliEye	V	V	V	V	V	V
Joystick	Logitech	Wingman	V	V	V	V	V	V
Keyboard	Microsoft	Natural Keyboard pro	V	V	V	V	V	V
Speaker	YAMAHA	YST-M35D	V	V	V	V	V	V
Scanner	UMAX	ASTRA 1220U	V	V	V	V	V	V
LAN	Double-H	USB2.0 LAN	V	V	V	V	V	V
Webcam	Logitech	Quick cam	V	V	V	V	V	V
HUB	D-Link	DSB-H4	V	V	V	V	V	V
	Double-H	DH224A	V	V	V	V	V	V
	Welland	UH-2UH4	V	V	V	V	V	V
Printer	EPSON	STYUS COLOR880	V	V	V	V	V	V

Configuration2:

BIOS KD7_AE.B02
OS WinME
Memory Winbond / 256MB / DDR333
CPU Athlon 1G
FDD NEC 1.44MB
HDD WD 200

PART 1: USB Device Interoperability Testing

1. Set up the USB HUB interoperability suite as indicated table 1 below:
 USB Host Controller- Root port 1=USB Speakers
 Root port 2=HUB #1
2. Devices detach and reattach, then validate all devices operate correctly.
3. Suspend system then resume the system through non-USB means, and validate all devices operate correctly.

USB1.1 Device used:

Device	Manufacturer	Model name
Mouse	Logitech	M-UB58
Keyboard	Genuine	KU-8933
Camera	Logitech	Quick CAM
Speaker	YAMAHA	YST-M35D
Joystick	Logitech	WingMan
Storage	lomega	ZIP 250

USB2.0 Device used:

Device	Manufacturer	Model name
Storage	Buslink	40G
HUB#1	Double-H	DH-2UH4
HUB#2	Welland	DU-224A

HUB#3	ATEN	DH-24
Scanner	EPSON	PHOTO 2450

Table 1

HUB #1-Self Powered	HUB #2-Bus Powered	HUB #3-Self Powered
Port 1= HUB #2	Port 1= Mouse	Port 1= Joystick
Port 2= Camera	Port 2= Keyboard	Port 2= Speaker
Port 3= Empty	Port 3= Storage	Port 3= ZIP
Port 4= Empty	Port 4= HUB #3	Port 4= Empty

Result: PASS

Note: You must stream audio through USB speakers before streaming video at all times during testing.

Purpose1: USB HUBs

1. The machine needs to be installed the device driver, if the system has got it.
2. The machine fill with the devices of the HUB channels, and to ensure all the devices function work normal.
3. Configured for all USB devices: (Vendor / Model).

Port 1	Port 2	Port 3	Port 4	Port 5	Port 6
ORITE M318B CCD	Buslink USB2.0 HDD 6GB	TEAC USB2.0 CD-RW	Genuine Keyboard	EPSON 1250 USB2.0 Scanner	Logitech mouse

Purpose2: Storage devices

1. The machine needs to be installed the device driver, if the system has got it.
2. Connected each device of all USB ports at the same time.
3. To read and write data on all devices at the same time.
4. Swap device on each USB port and to test devices again in the next time.

Status:

No.	Manufacturer Model	Pass(All)	Fail Status
1	Logitech Joystick	V	
2	Iomega Z250USBPCM ZIP	V	
3	Double-H USB2.0 LAN	V	
4	DPSON Printer Coloer 880	V	
5	ARMAS Thumb driver 64MB HDD	V	
6	Logitech Quick CAM	V	
7	TEAC CDRW280PU	V	
8	EPSON Scanner PHTOT 2450	V	

Connect Device (No.)						Result
USB 1	USB 2	USB 3	USB 4	USB 5	USB 6	
1	2	3	4	5	6	V
3	4	5	6	7	8	V
5	6	7	8	1	2	V

7	8	1	2	3	4	V
2	3	4	5	6	7	V
4	5	6	7	8	1	V
6	7	8	1	2	3	V

Purpose3: Other Devices

1.The machine needs to be installed the device driver, if the system has got it.

2. To ensure all the devices function work normal on each USB port.

TYPE	Vendor	Model Name	USB Port					
			USB 1	USB 2	USB 3	USB 4	USB 5	USB 6
Mouse	Logitech	M-UB58	V	V	V	V	V	V
	Logitech	M-BJ79	V	V	V	V	V	V
Combo	Logitech	C-BC7-DUAL&Y-RC 14&M-RN68	V	V	V	V	V	V
Keyboard	Microsoft	Natural Keyboard pro	V	V	V	V	V	V
	Genuine	K371	V	V	V	V	V	V
Speaker	YAMAHA	YST-M35D	V	V	V	V	V	V
Scanner	EPSON	2450	V	V	V	V	V	V
LAN	Double-H	USB2.0 LAN	V	V	V	V	V	V
Camera	ADDONICS	Pocket PC Camera	V	V	V	V	V	V
	ORITE	M318B Photo-Cam Pro USB Camera	V	V	V	V	V	V
Printer	EPSON	STYUS COLOR880	V	V	V	V	V	V

USB device with ACPI compatibility test
Configuration3:

BIOS	KD7_AE.B02	USB 1	EPSON USB2.0 Scanner 2450
OS	WinXP	USB 2	UMAX 1200U Scanner
Memory	Crucial / MT / 512MB / DDR266	USB 3	TEAC USB2.0 CD-RW
CPU	Athlon XP 2100+	USB 4	EPSON Color 880 printer



FDD NEC 1.44MB
HDD Seagate ST340810A
DVD-ROM HITACHI GD-2500
Power Supply High Power HPC-340-101

KD7-RAID Test Report

USB 5 Ennyah USB2.0 HDD
USB 6 EPSON USB2.0 Scanner 1250
Keyboard LEMEL 5121W
Mouse Logitech M-S35

	USB Device (No.)						Result
Inactive S3	1	2	3	4	5	6	V
Inactive S4	2	3	4	5	6	1	V
Before active S3 hot swapping 3 times	3	4	5	6	1	2	V
After active S3	3	4	5	6	1	2	V
Before active S4 hot swapping 3 times	4	5	6	1	2	3	V
After active S4	4	5	6	1	2	3	V
Active S3? Hot swapping? OS	5	6	1	2	3	4	V
Active S4? Hot swapping? OS	6	1	2	3	4	5	V

Tested by: Terry / Richael

Approved by: Justin Chen

Sound card test

Configuration:

BIOS KD7_AE.B02
OS WinXP / WinME
Memory Kingston 256MB*2
CPU Athlon XP 2000+



KD7-RAID Test Report

FDD Mitsumi 1.44MB
HDD Quantum Fireball LCT20
CD-ROM Aopen
Mouse Logitech M-BJ58
Keyboard Logitech Y-BE22
Power Supply Super Flower TT-500SS

Purpose

Test Items		WinME (Quality)	WinXP (Quality)
1	Wave	V	V
2	CD Audio (Cable)	V	V
3	VCD (AVI) Playback	V	V
4	DVD Playback	V	V
5	Midi	V	V
6	Microphone	V	V
7	Line in	V	V
8	Line Out	V	V
9	Line-in Record	V	V
10	CD-In (Audio-In) Record	V	V
11	Microphone Record	V	V
12	Joystick	V	V

Status:

Manufacturer Model	Pass(All)	Fail Status	Remark
C-Media APOLLO CMI8738	V		PCI
Creative/SB Live 5.1	V		PCI
PHILIPS/Acoustic edge	V		PCI

MIDI/AVI/WAV playing and downloading files for 5 to 10 minutes at the same time.

Tested by: Ricky Hsiao

Approved by: Justin Chen

(Fax) / modem (card) test

Configuration:

BIOS KD7_AE.B02
OS WinXP / WinME
Memory Kingston 256MB*2
CPU Athlon XP 2000+
FDD Mitsumi 1.44MB



KD7-RAID Test Report

HDD Quantum Fireball LCT20
CD-ROM ACER 652P-074
Mouse Logitech M-BJ58
Keyboard Logitech Y-BE22
Power Supply Super Flower TT-500SS

The following were tested under WinXP / ME, connecting to the Internet and downloading files.

Vender/Model	Serial Port	Internal	(Real) Baud Rate (V.90)	Result
Generic 56K HCF Fax Modem		V	48Kbps	V
Best Data Fax Modem		V	49.2Kbps	V
PCTEL Platinum V.90 Modem		V	52Kbps	V
Lucent Win Modem		V	52Kbps	V
Motorola SM56 PCI Fax Modem		V	50.6Kbps	V
ADI Rockwell DPF PnP	V		33.6Kbps	V
Intel V92 External Modem	V		49.2Kbps	V
External V90 Flex Voice	V		50.6Kbps	V

Tested by: Ricky Hsiao

Approved by: Justin Chen

LAN card test

Configuration:

BIOS KD7_AE.B02
Memory Kingston 256MB*2
CPU Athlon XP 2000+
FDD Mitsumi 1.44MB
HDD Quantum Fireball LCT20



KD7-RAID Test Report

CD-ROM ACER 652P-074
Mouse Logitech M-BJ58
Keyboard Logitech Y-BE22
Power Supply Super Flower TT-500SS

The following network cards were tested under the(N)OS Connecting to server and copying directories and files.

Intel 82559/3COM 3C905C-TX/ Realtek 8139C *2 pcs for testing at the same time.

Purpose:

Vender/Model	Bus/Type	Win98SE	Win2K	WOL (PME)
INTEL 82559 *2pcs	PCI (ALL)	V	V	V
3COM 3C905C-TX*2pcs	PCI (ALL)	V	V	V
Realtek 8139C*2pcs	PCI (ALL)	V	V	V

Tested by: Ricky Hsiao

Approved by: Justin Chen

SCSI card test

Configuration:

CPU Athlon XP 2100+
BIOS KD7_AE.B02
VGA ABIT GF4 MX Pro
SCSI HDD Seagate ST340810A
SCSI CD-ROM AFREEY 50X

SCSI Card:

SCSI Host	SCSI HDD	SCSICD-ROM	Setup WinME	Copy files	Setup WinXP	Copy files
Adaptec AHA-2940UW	Seagate ST340810A	AFREEY 50X	V	V	V	V
Adaptec AHA-2940UW-PRO	Seagate ST340810A	AFREEY 50X	N/A	N/A	V	V
Adaptec AHA-2940U2W (LVD)	Seagate ST340810A	AFREEY 50X	V	V	V	V
Adaptec ASC-19160 (LVC)	Seagate ST340810A	AFREEY 50X	V	V	V	V
Adaptec ASC-29160 (LVD)	Seagate ST340810A	AFREEY 50X	V	V	V	V
Adaptec ASC-39160 (LVD)	Seagate ST340810A	AFREEY 50X	V	V	V	V
Tekram DC-390U/F	Seagate ST340810A	AFREEY 50X	V	V	V	V
Tekram DC-390U2W (LVD)	Seagate ST340810A	AFREEY 50X	V	V	V	V
Tekram DC-390U3W (LVD)	Seagate ST340810A	AFREEY 50X	V	V	V	V
DOMEX DMX-3194UW	Seagate ST340810A	AFREEY 50X	N/A	N/A	V	V

N/A: Not tested.

Tested by: Terry Huang

Approved by: Justin Chen

VGA card test

Configuration:

CPU Athlon XP 1600+ / 2000+ (133)
 OS Win2K
 BIOS KD7_AE.B02
 Memory Twinmos Winbond 512MB*1
 HDD WD400



DVD-ROM ASUS E608
Monitor Samsung Sync Master 700NF

KD7-RAID Test Report

Step 1 testing contents:

1: Plug –in all of the VGA cards to ensure the system can boot normally.

2: Verifying the Bios and Driver version, then try to tune the highest resolution and refresh rate.

Check point:

AGP Aperture Size: 64MB

AGP Driving Strength: FF

AGP Mode: 4X

Fast Write: Enable

Table 1 (AGP adapter)

Vender	Model	Chipset	BIOS Version	Driver Version	Result
ABIT	Siluro MX400 DDR	GF2 MX400	3.11.01.48.4D	28.32	V
ABIT	Siluro GTS	GF2 GTS	2.15.01.07.00	2.9.4.2	V
ABIT	Siluro GF3	GF3	3.20.00.10.01	28.32	V
ABIT	Siluro GF3 Ti200	GF3 Ti200	3.20.00.28.00	28.32	V
ABIT	Siluro GF3 Ti500	GF3 Ti500	3.20.00.28.00	2.9.4.2	V
ABIT	GF4 MX 420 SD	GF4 MX 420	4.17.00.30.00	28.32	V
ABIT	GF4 MX 440	GF4 MX 440	4.17.00.24.00	2.8.32	V
ABIT	GF4 MX Pro	GF4 MX 460	4.17.00.30.00	28.32	V
ABIT	GF4 TI 4200	GF4 TI 4200	NIL	2942	V
ABIT	GF4 Ti 4400	GF4 Ti 4400	4.25.00.18.00	2.8.3.2	V
ABIT	GF4 Ti 4600	GF4 Ti 4600	4.25.00.19.00	2.8.3.2	V
ASUS	V8200	GF3	3.20.00.10.01	2.9.4.2	V
ASUS	V8170	GF4 MX400	NIL	2.9.4.2	V
ASUS	V8170SE	GF4 MX420	NIL	2.9.4.2	V
ATI	Radeon LE	Rage 6	0.001.000.005	5.13.6094	V
ATI	Radeon 7500	Rage 7500	0.109	5.13.6094	V
ATI	Radeon 9000 pro	Rage 9000 pro	NIL	5.13.6094	V
Aopen	GF2 GTS	GF2 GTS	V2.10	2.9.4.2	V
Creative	GB0010	GF2 GTS	2.15.03.01.07	2.9.4.2	V
ELSA	GLADIAC	GF2 GTS	1.02.00	2.9.4.2	V
ELSA	GLADIAC Ultra	GF2 GTS Ultra	3.15.00.12.03	2.9.4.2	V
ELSA	GLADIAC 516	GF2 GTS Ti	3.15.01.04.EP	2.9.4.2	V
ELSA	GLADIAC 920	GF3	3.20.00.10.04	2.9.4.2	V
ELSA	GLADIAC 921	GF3 Ti500	3.20.00.19.04	28.30	V
Gainward	GF2 MX VIVO	GF2 MX400	3.11.00.18.00	2.9.4.2	V
Gainward	GF4 Ti4600	GF4 Ti4600	4.25.00.26.00	2.9.4.2	V
Hercules	3D Prophet III	GF3 Ti500	3.20.00.17.07	2.9.4.2	V
Leadtek	GF2 MX DHPRO	GF2 MX	12.12.2000	2.9.4.2	V
Leadtek	GF2 GTS	GF2 GTS	12.11.2000	2.9.4.2	V
Leadtek	GF3	GF3	4.23.2001	2.9.4.2	V
Leadtek	GF3 Ti200-128	GF3 Ti200	01.03.2002	2.9.4.2	V
Leadtek	GF3 Ti500	GF3 Ti500	09.25.2001	2.9.4.2	V
Leadtek	A250	GF4 Ti4400	02.07.2002	28.32	V
Leadtek	A250 Ultra	GF4 Ti4600	02.07.2002	28.32	V
Matrox	G55+MD HA32DB	MGA G550	1.4b14	5.82.18.0	V
Triplex	Xabre 400	Xabre 400	NIL	5.13.01.3030	V
TS	KYRO II	STG4500	01.107	1.4.14.28	V

Step 2 testing contents:

Resolution: 1024*768 True color

DVD Player:

DVD Playback item: Playback a DVD film for 5 minutes.

3Dmark 2000 item: Pressing the Run Default Benchmark button to test one loop.

3D Exercizer item: Texture stress must tune to 73.3MB of texture memory and run turbo mode for 5 minutes.

Table 2 (AGP adapter)

Vender	Model	3Dmark 2001 Second Edition	GL Mark2001 V1.1P	N-Bench 2 (D3D)	DVD Playback
ABIT	Siluro MX400DDR	2875	21.3	1665	V
ABIT	Siluro GTS	4117	30.7	1742	V
ABIT	Siluro GF3	6849	49.2	1865	V
ABIT	Siluro GF3 Ti200	6407	45.7	1827	V
ABIT	Siluro GF3 Ti500	7896	54.5	2151	V
ABIT	GF4 MX 420 SD	3739	22	1683	V
ABIT	GF4 MX 440	5533	37	2009	V
ABIT	GF4 MX Pro	5685	40	1850	V
ABIT	GF4 TI 4200	8358	61.9	1858	V
ABIT	GF4 Ti 4400	8768	68	1829	V
ABIT	GF4 Ti 4600	9476	69.6	2125	V
ASUS	V8200	6861	50.4	1868	V
ASUS	V8170	5538	36.9	2034	V
ASUS	V8170SE	4051	24.9	1914	V
ATI	Radeon LE	3540	26	1738	V
ATI	Radeon 7500	5054	38	1782	V
ATI	Radeon 9000 pro	6772	49.2	1793	V
Aopen	GF2 GTS	4291	30.6	1971	V
Creative	GB0010	4126	30.3	1748	V
ELSA	GLADIAC	4275	30.5	1996	V
ELSA	GLADIAC Ultra	4890	39.7	1796	V
ELSA	GLADIAC 516	4592	37.8	1783	V
ELSA	GLADIAC 920	6840	50.4	1869	V
ELSA	GLADIAC 921	7424	53.8	1853	V
Gainward	GF2 MX VIVO	2786	19.3	1694	V
Gainward	GF4 TI4600	9597	69.7	2129	V
Hercules	3D Prophet III	7420	53.7	1868	V
Leadtek	GF2 MX DHPRO	2763	19.4	1496	V
Leadtek	GF2 GTS	4275	30.5	2004	V
Leadtek	GF3	6859	50.3	1866	V
Leadtek	GF3 Ti200-128	6759	39.6	2105	V
Leadtek	GF3 Ti500	7823	46.9	2147	V
Leadtek	A250	9208	52.6	2119	V
Leadtek	A250 Ultra	9556	53.4	2103	V
Matrox	G55+MDHA32DB	1378	5.1	0	V
Triplex	Xabre 400	6139	38.4	2038	V
EVIL	KYRO	2263	19.6	1661	V

Step 3 testing contents:

Vender	Model	3D Winbench2K V1.1
ABIT	Siluro MX400DDR	2.94 / 217
ABIT	Siluro GTS	2.91 / 124
ABIT	Siluro GF3	2.93 / 216
ABIT	Siluro GF3 Ti200	2.95 / 199

ABIT	Siluro GF3 Ti500	3.32 / 245
ABIT	GF4 MX Pro	2.94 / 189
ABIT	GF4 TI 4200	2.94 / 2.57
ABIT	GF4 Ti 4400	2.95 / 266
ABIT	GF4 Ti 4600	3.27 / 297
ASUS	V8200	2.92 / 217
ASUS	V8170SE	3.26 / 99.6
ATI	Radeon 9000 pro	2.97 / 2.16
ELSA	GLADIAC Ultra	2.91 / 161
ELSA	GLADIAC 920	2.92 / 216
Gainward	GF4 Ti4600	3.26 / 297
Leadtek	GF2 MX DHPRO	2.91 / 73
Leadtek	GF2 GTS	3.35 / 127
Leadtek	GF3 Ti200-128	3.32 / 204
Leadtek	A250	3.29 / 286
Leadtek	A250 Ultra	3.27 / 287
Matrox	G55+MDHA32DB	2.95 / 30.9
Triplex	Xabre 400	3.31 / 1.57

Step 4 testing contents:

VGA setting: 1024*768 True Color

1. Unreal: Playback Fly Over Map ten loops and record the average value.
2. Quake III: Demo Quake III one loop and record the FPS value.

Table 3 (AGP adapter)

3D Game			X-Isle 1.0.0.1	Quake III (Quaver)	Drone Mark	RTCW	Codecrea tures Benchmark pro
Adapter Information							
Vendor	Model	Transfer Mode		OpenGL 1.1/FPS	OpenGL 1.2/FPS	OpenGL 1.2/FPS	
ABIT	Siluro MX400DDR	4X	V	144.5	62.0	28.9	NIL
ABIT	Siluro GTS	4X	V	96.2	27.35	48.0	NIL
ABIT	Siluro GF3	4X	V	145.7	62.93	78.2	NIL
ABIT	Siluro GF3 Ti200	4X	V	142.4	58.86	75.4	1028
ABIT	Siluro GF3 Ti500	4X	V	180.5	68.61	86.9	90.8
ABIT	GF4 MX 420 SD	4X	V	87.9	25.01	36.2	NIL
ABIT	GF4 MX 440	4X	V	147	31.79	68.8	NIL
ABIT	GF4 MX Pro	4X	V	135.5	28.12	75.7	NIL
ABIT	GF4 TI 4200	4X	V	1450	69.93	78	1258
ABIT	GF4 Ti 4400	4X	V	148.8	60.1	80	2146

ABIT	GF4 Ti 4600	4X	V	176.3	70.2	84.1	2359
ASUS	V8200	4X	V	145.9	59.58	78.3	792
ASUS	V8170	4X	V	147.6	31.83	68.8	NIL
ASUS	V8170SE	4X	V	81.8	27.89	37	NIL
ATI	Radeon LE	4X	NIL	66.8	69.85	30.2	NIL
ATI	Radeon 7500	4X	NIL	109.3	70.1	49.8	NIL
ATI	Radeon 9000 pro	4X	NIL	133.6	151	72.6	1042
Aopen	GF2 GTS	4X	V	100.5	30.75	47.8	NIL
Creative	GB0010	4X	V	97.4	29.35	47.4	NIL
ELSA	GLADIAC	4X	V	100	30.79	47.4	NIL
ELSA	GLADIAC Ultra	4X	V	123.6	28.17	64.9	NIL
ELSA	GLADIAC 516	4X	V	111.5	27.72	56.5	NIL
ELSA	GLADIAC 920	4X	V	145.9	62.94	78.2	NIL
ELSA	GLADIAC 921	4X	V	146.2	66.56	78.9	863
Gainward	GF2 MX VIVO	4X	V	57.9	26.22	28.6	NIL
Gainward	GF4 TI4600	4X	V	177.7	70.04	84.2	2359
Hercules	3D Prophet III	4X	V	146.2	66.54	78.9	897
Leadtek	GF2 MX DHPRO	4X	V	53	24	28.8	NIL
Leadtek	GF2 GTS	4X	V	100.1	30.75	48.1	NIL
Leadtek	GF3	4X	V	149.2	62.93	78.2	NIL
Leadtek	GF3 Ti200-128	4X	V	170.7	60.63	78.4	902
Leadtek	GF3 Ti500	4X	V	178.1	68.6	85.8	897
Leadtek	A250	4X	V	156.9	70.02	84.1	2163
Leadtek	A250 Ultra	4X	V	157.5	70.93	84.7	2362
Matrox	G55+MDHA 32DB	4X	NIL	28.6	23.81	3	NIL
EVIL	KYRO	4X	NIL	54.3	50.3	14.59	NIL



KD7-RAID Test Report

Triplex	Xabre 400	8X	NIL	132.7	118.07	73.3	NIL
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NIL: Not supported.

Tested by: Kevin Chen

Approved by: Justin Chen

Power supply scan

Scan 1 (voltage)

Configuration:

BIOS KD7_AE.B02
OS Win2K Pro
Memory APACER 512MB*4

PCI Slot 1 3COM 3C905C-TX
PCI Slot 2 Adaptec 19160
PCI Slot 3 Realtek RTL8139C



KD7-RAID Test Report

CPU Athlon XP 2000+
FDD Mitsumi 1.44MB
HDD Seagate ST320413A
CD-ROM ACER 652P-074

PCI Slot 4 PHILIPS Acoustic edge
PCI Slot 5 Adaptec 2940U2W
Mouse Logitech M-BE58
Keyboard Logitech Y-BE22

Purpose 1:

1. Measure +3.3V / +5V and +12V and record those voltage in BIOS PC Health.
2. Each power supply must boot entering operation system and shutdown at least.
3. Make sure all LED are unlighted on debug card after shutdown the system.

Model	Vender	Debug Card Status	BIOS PC Health			Measurement		
			+3.3V	+5V	+12V	+3.3V	+5V	+12V
FSP300-60BT	Aopen	V	3.31	5.02	12.03	3.33	5.03	11.96
ATX-300	ATX	V	3.23	4.99	11.79	3.25	5.02	11.75
ATX-1957D2	Bestec	V	3.24	5.10	11.73	3.27	5.13	11.75
B200W	DEER	V	3.28	4.99	12.03	3.30	5.01	12.00
B250W	DEER	V	3.29	5.10	12.22	3.32	5.14	12.19
B350W	DEER	V	3.29	5.10	12.16	3.31	5.13	12.11
B400W	DEER	V	3.29	5.05	12.09	3.32	5.10	12.02
EG265P-VB	Enermax	V	3.29	4.94	12.16	3.36	4.92	12.12
EG301P-VE	Enermax	V	3.34	5.05	12.22	3.37	5.07	12.18
EG465P-VE	Enermax	V	3.29	5.08	12.16	3.32	5.11	12.12
ESP300-60BT	FSP	V	3.29	4.99	11.97	3.31	5.02	11.92
HP-P302GF3	HIPRO	V	3.36	5.10	11.97	3.38	5.13	11.94
HPC-300-101	High Power	V	3.29	4.97	11.97	3.35	5.04	12.04
HPC-340-101	High Power	V	3.34	5.08	12.03	3.37	5.09	12.01
CWT-300ATX12	Hi-Cute	V	3.34	5.02	11.97	3.36	5.06	11.93
HEC-450LD-T	HEC	V	3.34	5.02	12.09	3.37	5.02	12.01
IW-P250A2-0	In Win	V	3.24	4.99	12.03	3.28	5.07	12.07
IW-P300A2-0	In Win	V	3.26	4.91	11.73	3.28	4.93	11.66
PW-250ATXE	Power win	V	3.23	5.05	12.03	3.26	5.07	11.96
ST-250PIIIV	Seventeam	V	3.36	5.12	12.32	3.31	5.05	12.28
ST-522HLP	Seventeam	V	3.37	5.08	12.09	3.39	5.09	12.03
ST-300BLV	Seventeam	V	3.31	5.05	11.91	3.35	5.06	11.83
ST-250BLV	Seventeam	V	3.32	5.02	5.05	3.36	5.06	11.82
TC-500PATX	SNAKE	V	3.36	5.08	12.16	3.38	5.10	12.12
TC-400P	SNAKE	V	3.29	5.05	12.22	3.35	5.11	12.28
TC-350PATX	SNAKE	V	3.36	5.05	12.16	3.38	5.06	12.08
TC-300P	SNAKE	V	3.36	5.10	12.16	3.38	5.12	12.10
TT-500SS	Super Flower	V	3.26	5.02	11.97	3.29	5.05	11.89
TT-450SS	Super Flower	V	3.32	5.05	11.97	3.34	5.06	11.91
FV-300N20	TGR	V	3.31	5.05	11.97	3.35	5.09	11.93

Scan 2 (WOL/reset)

Configuration:

BIOS KD7_AE.B02
OS Win2K Pro
Memory APACER 512MB*4
CPU Athlon XP 2000+
FDD Mitsumi 1.44MB

PCI Slot 1 3COM 3C905C-TX
PCI Slot 2 Adaptec 19160
PCI Slot 3 Realtek RTL8139C
PCI Slot 4 PHILIPS Acoustic edge
PCI Slot 5 Adaptec 2940U2W



KD7-RAID Test Report

HDD Seagate ST320413A

Mouse Logitech M-BE58

CD-ROM ACER 652P-074

Keyboard Logitech Y-BE22

Purpose:(No Chamber Environment/Open Case)

- 1 All of power supply must arrange for 256/128MB Memory Modules making system on/off
- 2.Boot & Shutdown & Reset (**Power** Bottom) 50 times
- 3.Boot & Shutdown & Reset (**Reset** Bottom) 50 times (devices full loading as far as possible).
- 4.Wake On LAN function doesn't guarantee for all power supply.

Model	Vender	Peak Output	+3.3v/+5v Current	+5v SB /MAX	Safety/ EMC	W.O.L (W.O.R)	Result
FSP300-60BT	AOPEN	300W	28A / 30A	2A	V	V	V
ATX-300	ATX	300W	15A / 22A	1A	V	V	V
ATX-1957D2	BESTEC	250W	16.7A / 25A	2A	V	V	V
B200W	DEER	200W	9A / 18A	2A	NIL	V	V
B250W	DEER	250W	11A / 20A	2A	NIL	V	V
B350W	DEER	350W	12A / 24A	2A	NIL	V	V
B400W	DEER	400W	14A / 28A	2A	NIL	V	V
EG265P-VE	Enermax	250W	22A / 25A	2.2A	V	V	V
EG465P-VE	Enermax	430W	38A / 44A	2.2A	V	V	V
ESP300-60BT	FSP	300W	28A / 30A	2A	V	V	V
IW-P250A2-0	In Win	250W	25A / 27A	2A	V	V	V
IW-P300A2-0	In Win	300W	28A / 30A	2A	V	V	V
HPC-300-101	High Power	300W	16A/30A	1A	V	V	V
HPC-340-101	High Power	340W	28A / 30A	2A	V	V	V
CWT-300ATX12	Hi-Cute	300W	14A / 30A	2A	V	V	V
HP-P302GF3	HIPRO	300W	24A / 30A	3A	V	V	V
HEC-450LD-T	HEC	450W	35A / 40A	2A	V	V	V
PW-250ATXE	Power win	250W	16A / 25A	1.5A	V	V	V
FV-300N20	TGR	300W	20A / 30A	2A	V	V	V
TC-300P	SNAKE	300W	14A / 30A	1.2A	V	V	V
TC-350P ATX	SNAKE	350W	14A / 40A	1.2A	V	V	V
TC-400P ATX	SNAKE	400W	14A / 30A	1.2A	V	V	V
TC-500P ATX	SNAKE	500W	20A / 40A	2A	V	V	V
ST-250PIIIV	Seventeam	250W	20A / 25A	2A	V	V	V
ST-522HLP	Seventeam	520W	30A / 40A	2A	V	V	V
ST-250BLV	Seventeam	250W	20A / 25A	2A	V	V	V
ST-300BLV	Seventeam	300W	28A / 30A	2A	V	V	V
TT-500SS	Super Flower	520W	28A / 52A	3A	V	V	V
TT-450SS	Super Flower	470W	28A / 47A	3A	V	V	V

NIL: Not supported.

PCI 3.3Vaux standby measurement

Configuration:

BIOS KD7_AE.B02

PCI Slot 1 FOXFIRE II

Memory APACER 512MB*4

PCI Slot 2 FOXFIRE II

CPU Athlon XP 2000+

PCI Slot 3 FOXFIRE II

FDD Mitsumi 1.44MB

Mouse Logitech M-BE58

HDD Seagate ST320413A

Keyboard Logitech Y-BE22

CD-ROM ACER 652P-074



KD7-RAID Test Report

Purpose: The motherboard undergoing test must have LAN, Audio, Modem function, (onboard or PCI devices) the 3.3V aux measurement must detect form FOXFIRE II card's PCI 3.3V AUX pins

Model	Vender	Peak Output	+3.3v/+5v Current	PCI 3.3V AUX	Result
TT-500SS	Power Flower	520W	3.30 / 5.07	3.24	V
TC-350P	SNAKE	350W	3.37 / 5.07	3.25	V
ST-522HLP	Seventeam	520W	3.40 / 5.10	3.28	V
FSP300-60BT	AOPEN	300W	3.34 / 5.04	3.24	V
HPC-340-101	High Power	315W	3.37 / 5.12	3.28	V

Tested by: Ricky Hsiao

Approved by: Justin Chen

Mechanical measurement

Check mechanical

Configuration:

CPU Athlon XP 2000+

CPU Cooler ARKUA

Memory APACER Samsung 512MB*4

Floppy NEC 1.44MB

HDD IBM DTLA ATA100

CD-ROM 1

CD-ROM 2

Removable Tray

Case 1

Case 2

Plextor 40X

TEAC 40X

LIAN LI RH28

Enlight 7233D (5.1/4*4,3.1/2*2)

Enlight 7105 (5.1/4*3,3.1/2*2)

Purpose:

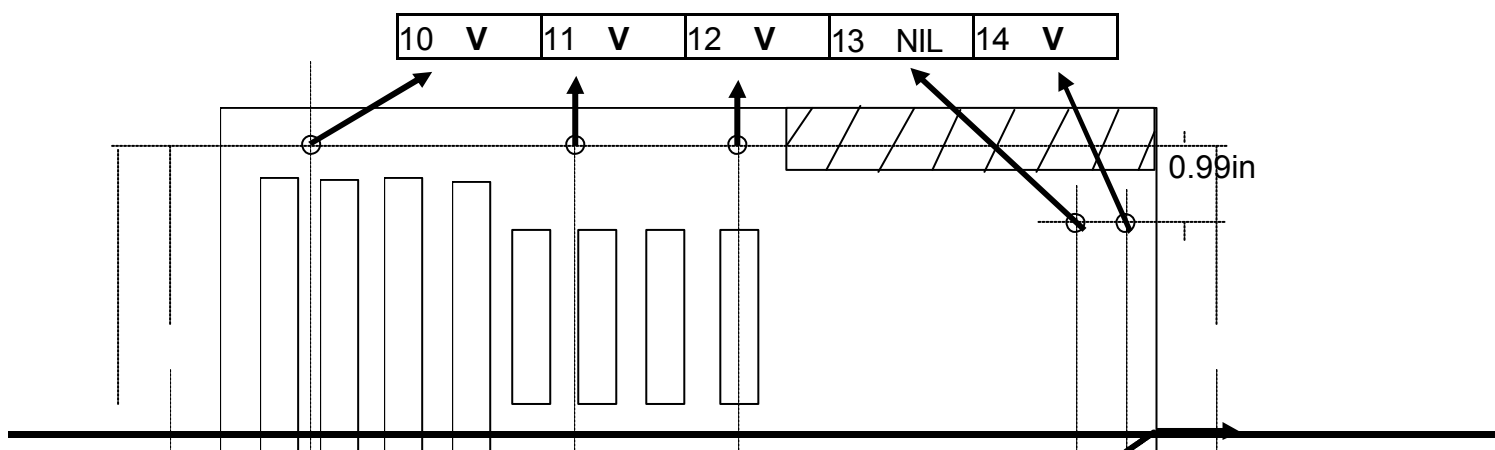
A (Low tolerance)	Enlight 7233D Case + PLE 40X CD-ROM (second 5 1/4 from the top) + RH28 (first 5 1/4 from the top)
	Enlight 7105 Case + PLE 40X CD-ROM (second 5 1/4 from the top) + RH28 (first 5 1/4 from the top)
B (Mid tolerance)	Enlight 7233D Case + PLE 40X CD-ROM (second 5 1/4 from the top) + RH28 (first 5 1/4 from the top)
	Enlight 7233D Case + Teac 40X CD-ROM (Third or fourth 5 1/4 from the top)
	Enlight 7105 Case + Teac 40X CD-ROM (any 5 1/4 slot)
C (High tolerance)	Enlight 7233D Case + Teac 40X CD-ROM (any 5 1/4 slot) + RH28 (any 5 1/4 slot)

Model	A	B	C	Notes
KD7-RAID		V		

Tested by: Thomas Chen

Approved by: Justin Chen

Check layout for ATX





KD7-RAID Test Report

6.1in

7.55in

8.95in

1	NIL
2	V

3	NIL
4	V

15	V	3.1in	4.9in
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10.3in

12in

8	NIL	9	V
---	-----	---	---

5	V	6	NIL	7	V
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Tested by: Thomas Chen

Approved by: Justin Chen

Operating system

Configuration (Highest speed CPU):

BIOS	KD7_AE.BIN
OS	WinXP Pro
Memory	APACER Samsung 512MB
CPU	Athlon XP 2000+
AGP	ABIT MX200
FDD	NEC 1.44MB
HDD	Maxtor 53073H6 30G



CD-ROM TEAC CD-540E
Mouse Logitech M-S35
Keyboard LEMEL 5121W
Power Supply Power Win 250W

KD7-RAID Test Report

Microsoft WinME (Chinese)

Testing Contents	Result	Remark
Install WinME from CD-ROM	V	
Install Office 2000 from Network	V	
Create Bootable Disk	V	
Disk copy	V	
Setup 2 or 3Applications	V	
Cutting Out from A to B (Application)	V	
Edit /Save/Copy File	V	
Remove Application	V	
Add On Card PnP (Sound /LAN/Modem)	V	
Add On Card (Driver) Setup Finish & Check	V	
Setup Game	V	
Ending /Shut Down/Warm Boot/Power Off	V	
Reset bottom & Entry O S 10 Times	V	
Power Off	V	

Microsoft Win2K (Chinese)

Testing Contents	Result	Remark
Install Win2K From CD-ROM	V	
Install Office 2000 from Network	V	
Disk copy	V	
Setup 2 or 3Applications	V	
Cutting Out from A to B (Application)	V	
Edit /Save/Copy File	V	
Remove Application	V	
Add On Card PnP (Sound /LAN/Modem)	V	
Add On Card (Driver) Setup Finish & Check	V	
Setup Game	V	
Ending /Shut Down/Warm Boot/Power Off	V	
Reset bottom & entry O S 10 Times	V	
Power Off	V	

Microsoft WinXP (Chinese)

Testing Contents	Result	Remark
Install WinXP From CD-ROM	V	
Install Office 2000 from Network	V	
Disk copy	V	
Setup 2 or 3Applications	V	
Cutting Out from A to B (Application)	V	
Edit /Save/Copy File	V	

Remove Application	V	
Add On Card PnP (Sound /LAN/Modem)	V	
Add On Card (Driver) Setup Finish & Check	V	
Setup Game	V	
Ending /Shut Down/Warm Boot/Power Off	V	
Reset bottom & entry O S 10 Times	V	
Power Off	V	

Others MS OS installation

(All on-board devices driver must be installed completely)

OS	Status	
	English	Chinese
Win98SE	V	
WinME	V	V
Win2K Professional	V	V
Win2K Advanced Server		V
Win2K Server	V	
WinXP Home Edition	V	
WinXP Professional	V	V
Red Hat 7.2	V	

Tested by: Terry Huang

Approved by: Justin Chen