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1. Function test

1.1 Hardware function

Base Function Test

1	Power Button	PASS
2	Reset	PASS
3	Power LED	PASS
4	HDD LED	PASS
5	IDE Primary Master	PASS
6	IDE Primary Slave	PASS
7	DIMM	PASS
8	SATA	PASS
9	Floppy	PASS
10	Keyboard	PASS
11	Mouse	PASS
12	VGA Port	PASS
13	AUDIO	PASS
14	LAN	PASS
15	USB	PASS
16	IEEE 1394	PASS
17	COM Port	PASS
18	Mini AGP	PASS
19	IrDA	PASS
20	SPDIF	PASS
21	CDIN	PASS
22	GPIO	PASS
23	Compact Flash	PASS

24	CPUFAN	PASS
25	SYSFAN	PASS

2.0 PITCH (DIP)

1	JRTC	PASS
2	JDOM	PASS
3	JLAN	PASS
4	JCFSEL	PASS

1.2 BIOS function

Item	Description	Result	Remark
1	Press 'Del' to run Setup Utility	PASS	
2	Ctrl-Alt-Del – Soft-Reboot	PASS	
3	Save & Exit Setup	PASS	
4	Date & Time Setting	PASS	
5	Drive A	PASS	
6	Quick Power On Self Test	PASS	
7	Boot Device Setting	PASS	
8	Boot Up Floppy Seek	PASS	
9	Boot Up NumLock Status	PASS	
10	OnChip IDE Channel 0	PASS	
11	OnChip IDE Channel 1	PASS	
12	VIA AC97 Audio	PASS	
13	VIA OnChip LAN	PASS	
14	OnChip USB Controller	PASS	
15	USB Emulation	PASS	
16	On Chip Serial ATA	PASS	
17	SATA Mode	PASS	
18	USB Keyboard Support	PASS	
19	USB Mouse Support	PASS	
20	Onboard FDC Controller	PASS	
21	Soft-Off by PWRBTN	PASS	
22	PS2KB Wakeup Select	PASS	
23	PS2KB Wakeup from S3 /S4 /S5	PASS	
24	PS2MS Wakeup from S3 /S4 /S5	PASS	
25	Wake-Up On LAN / Ring	PASS	
26	RTC Alarm Resume	PASS	

1.3 Driver

1. Windows 2000 Driver Test

Item	Description	Result	Remark
1	Chip set Driver	PASS	
2	VGA Driver	PASS	
3	Audio Driver	PASS	
4	LAN Driver	PASS	

2. Windows XP Driver Test

Item	Description	Result	Remark
1	Chip set Driver	PASS	
2	VGA Driver	PASS	
3	Audio Driver	PASS	
4	LAN Driver	PASS	

3. Windows Server 2000 Driver Test

Item	Description	Result	Remark
1	Chip set Driver	PASS	
2	VGA Driver	PASS	
3	Audio Driver	PASS	
4	LAN Driver	PASS	

2. Compatibility test

2.1 VGA Graphic Test

1. Windows 2000

Item	Description	Result	Remark
1	Resolution/Color Change	PASS	
2	CRT Display Test	PASS	
3	CRT Display Quality Test	PASS	
4	DVI Display Test	PASS	

2. Windows XP

Item	Description	Result	Remark
1	Resolution/Color Change	PASS	
2	CRT Display Test	PASS	
3	CRT Display Quality Test	PASS	
4	DVI Display Test	PASS	

3. Windows Server 2000

Item	Description	Result	Remark
1	Resolution/Color Change	PASS	
2	CRT Display Test	PASS	
3	CRT Display Quality Test	PASS	

2.2 Audio Test

1. Windows 2000

Item	Description	Result	Remark
1	Sound Effect	PASS	
2	Equalizer	PASS	
3	Microphone	PASS	
4	5.1 channel test	PASS	

2. Windows XP

Item	Description	Result	Remark
1	Sound Effect	PASS	
2	Equalizer	PASS	
3	Microphone	PASS	
4	5.1 channel test	PASS	

3. Windows Server 2000

Item	Description	Result	Remark
1	Sound Effect	PASS	
2	Equalizer	PASS	
3	Microphone	PASS	
4	5.1 channel test	PASS	

2.3 HDD Test

HDD Type	Operating System	HDD Size Detect	HDD Data Transfer	HDD LED Check
Seagate ST340014A 40GB	MS-DOS	PASS	PASS	PASS
Maxtor 6E040L0 40GB	Win2000	PASS	PASS	PASS
HITACHI HDS722525VLSA80 250GB (SATA)	WinXP	PASS	PASS	PASS

2.4 CD-ROM Test

CD-ROM Type	Operating System	CD-ROM Detect	CD-ROM Data Transfer	PLAY DVD
ASUS CD-S400/A	MS-DOS	PASS	PASS	
SONY DDU1621	Win2000	PASS	PASS	PASS
	WinXP			

2.5 USB Test

1. Windows 2000

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	External USB Keyboard Test	PASS	
3	External USB Mouse Test	PASS	
4	Hot plugging test	PASS	

2. Windows XP

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	External USB Keyboard Test	PASS	
3	External USB Mouse Test	PASS	
4	Hot plugging test	PASS	

3. Windows Server 2000

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	External USB Keyboard Test	PASS	
3	External USB Mouse Test	PASS	
4	Hot plugging test	PASS	

2.6 Serial Port Test

1. MS-DOS

Item	Description	Result	Remark
1	MS-DOS PCCheck TEST	PASS	
2	MS-DOS QuickTech Pro TEST	PASS	

2. Windows 2000

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	
3	RS-232 Modem Test	PASS	

3. Windows XP

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	
3	RS-232 Modem Test	PASS	

2.7 Keyboard、 Mouse Test

1. MS-DOS

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	

2. Windows 2000

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

3. Windows XP

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

2.8 LAN Test

1. Windows 2000

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

2. Windows XP

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

2.9 Power Supply Test

1. MS-DOS 6.22

Item	Description	Verification	
		Result	Remark
1	ATX Power On/Off	Pass	Seventeam ST-300BLV
2	ATX Power On/Off	Pass	AOpen FSP300-60ATV

2. Windows 2000

Item	Description	Verification	
		Result	Remark
1	ATX Power On/Off	Pass	Seventeam ST-300BLV
2	ATX Power On/Off	Pass	AOpen FSP300-60ATV

3. Windows XP

Item	Description	Verification	
		Result	Remark
1	ATX Power On/Off	Pass	Seventeam ST-300BLV
2	ATX Power On/Off	Pass	AOpen FSP300-60ATV

2.10 Floppy Drive Test

Model: SAMSUNG SFD321S

1. MS-DOS 6.22

Item	Description	Result	Remark
1	Floppy Drive Detect	PASS	
2	Boot from Floppy	PASS	
3	Floppy Data Transfer	PASS	

2. Windows 2000

Item	Description	Result	Remark
1	Floppy Drive Detect	PASS	
2	Floppy Data Transfer	PASS	

3. Windows XP

Item	Description	Result	Remark
1	Floppy Drive Detect	PASS	
2	Floppy Data Transfer	PASS	

2.11 Boot Up Test

Item	Description	Result	Remark
1	Boot from HDD	PASS	Times
2	Boot from CD-ROM	PASS	Times
3	Boot from Floppy	PASS	Times
4	Reboot test with Win 2000	PASS	Times
5	Reboot test with Win XP	PASS	Times

3. Reliability Test

3.1 Power Consumption Test

1.Test Environment:

CPU	VIA C3 / 1.0 GHZ
Memory	HYNIX 184 Pin DDR400 1GB
HDD	Seagate ST340014A 40G
CDROM	Aopen DVD1648/LKY
Operating System	Windows XP
Test Program	3DwinMark 2001

Voltae	Current (A)	Power (W)	Remark
3.3V	0.3	0.99	
5V	3.5	17.5	
12V	0.2	2.4	

2.Test Environment:

CPU	VIA C3 / 1.0 GHZ
Memory	HYNIX 184 Pin DDR400 1GB
HDD	Seagate ST340014A 40G
CDROM	Aopen DVD1648/LKY
Mini AGP Card	MA-ATI
POWER	Aopen FSP300-60ATV
Operating System	Windows XP
Test Program	3DwinMark 2003

Voltae	Current (A)	Power (W)	Remark
3.3V	1.2	3.96	
5V	4.3	21.5	
12V	0.3	3.6	

4. Performance Test

4.1 Business Win Stone

Operating System : Windows 2000

WEIGHTED SUITE	Test Environment	Result	Remark
Business Win stone2001	SAMSUNG DDR333 512MB Seagate ST340014A 40GB Aopen DVD1648/LKY	Pass	30.6
			30.2
			30.6
			30.6
			30.5
Business Win stone2002	SAMSUNG DDR333 512MB Seagate ST340014A 40GB Aopen DVD1648/LKY	Pass	14.8
			14.7
			14.6
			14.6
			14.6

4.2 Content Creation Winstone

Operating System : Windows 2000

WEIGHTED SUITE	Test Environment	Result	Remark
Winstone Content Creation2001	SAMSUNG DDR333 512MB Seagate ST340014A 40GB Aopen DVD1648/LKY	Pass	34.1
			34.8
			34.9
			34.8
			35.1

4.3 3D MARK

1. Windows XP

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Scores	HYNIX DDR400 1GB Seagate ST340014A 40GB	Pass	880
3DMARK2003 Scores	Aopen DVD1648/LKY	Pass	52

2. Windows XP (with Mini AGP Card)

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Scores	HYNIX DDR400 1GB Seagate ST340014A 40GB	Pass	4196
3DMARK2003 Scores	MA-ATI (Mini AGP Card)	Pass	1866