

# P5 Verification Test Plan

Release No : 08I010024

<b>Product Model</b>	<b>HSB-668I</b>
<b>Description</b>	<b>VIA Corefusion ISA Half-Size SBC</b>
<b>Test Configuration</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : HSB-668I Rev A1.01 <input checked="" type="checkbox"/> BIOS : HSB-668I BIOS Rev 1.1 (05/12/2006)  <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type : Onboard CPU VIA Mark 533MHz <input checked="" type="checkbox"/> North Bridge : VIA Mark / Corefusion / 533MHz / 0.9V <input checked="" type="checkbox"/> South Bridge : VT82C686B / 0510CD <input checked="" type="checkbox"/> VGA Chipset : VIA Mark / Corefusion / 533MHz / 0.9V <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL8100C / RTL8110S-32 <input checked="" type="checkbox"/> I/O Chipset : Winbond 83977ATF  <input checked="" type="checkbox"/> Remark : QE NPDP P5 Report for HSB-668I
<b>Test Result Summary</b>	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation <b>Comment:</b> _____ _____	

2008/08/28

Issue date

Wenyuan Yang

Manager

Jerry Tsai

Test Engineer

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There are 3 test results in this document; they are described as follows:

**Pass:** Function worked perfectly

**Fail:** Function failed and must be modified in the next version

**N/A:** Outside of specification or no test equipment

**Platform Information:**

Item	Device Information	Test Item
PCB Model / Version	HSB-668I Rev:A1.01	
BIOS / Version	HSB-668I Rev:A1.1 (05/12/2006)	
CPU Type	Onboard CPU VIA Mark CoreFusion 533MHz 0714 0.09V EFT6H GP0861.1 RJCOCA DM9107.00	
Memory Type	SAMSUNG K4S560832C-TC75 SODRAM PC133 256MB	
SATA	N/A	
Primary IDE Master	SEAGATE ST340016A 40G 3.5" IDE HDD	
Primary IDE Slave	ASUS DVD-E818A DVD-ROM	
CRT	ViewSonic E70 17"	
LCD	N/A	
Compact Flash	N/A	
Backplane	N/A	
Riser Card	N/A	
Expansion Board	N/A	
	N/A	
Operating System	[ ] Linux-RedHat 9.0 or [ X ] Fedora Core 6	6
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows Server 2003 English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version V2002 Service Pack 2	1,2,3,4,5,6,7,8
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	6
	Windows Server 2000 English Version	6
	Windows 98SE English Version V4.10.2222A	6
	MS-DOS 6.22 English Version	6
Power Supply	ATX Power Supply : PRT PRM400 400W	1,2,3,4,5,6,7,8
	AT Power Supply: EMACS SP2-4300F 430W	1,2,3,4,5,6,7,8
	DC Adapter : N/A	N/A

### 1. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:	X			
Primary IDE Master	X			
Primary IDE Slave	X			
Secondary IDE Master	X			
Secondary IDE Slave	X			
Third IDE Master			X	
Third IDE Slave			X	
RAID 0 Function Test			X	
RAID 1 Function Test			X	
SATA1 / Serial ATA Connector 1			X	
SATA2 / Serial ATA Connector 2			X	
SATA3 / Serial ATA Connector 3			X	
SATA4 / Serial ATA Connector 4			X	
Compact Flash – Type I			X	
Compact Flash – Type II			X	
DOC (Disk On Chip)	X			
DOM (Disk On Module) – 40 Pin	X			Transcend / TS512MDOM40V / 512MB / IDE 40 Pin
DOM (Disk On Module) – 44 Pin			X	Transcend / TS512MDOM44V / 512MB / IDE 44 Pin
COM 1-232	X			
COM 2-232	X			
COM 3-232	X			
COM 4-232	X			
COM 2-422	X			
COM 2-485	X			
PS/2 Mouse & Keyboard (Internal)	X			
PS/2 Mouse & Keyboard (External)	X			
Audio Connector	X			
Audio 5.1 Channel / S/P DIF			X	
LPT 1	X			
SIR / 115.2 Kbps	X			
FIR / 4M bps			X	
USB 1/2 Ports	X			
USB 3 Ports	X			
USB 2.0 1/2 Ports			X	
USB 2.0 3 Ports			X	
DVI Function			X	
DIO Connector			X	
Card Bus			X	
PC/104	X			
PC/104-Plus			X	
PCI-104			X	
CD-In Connector	X			
TFT TTL LCD	X			
TFT LVDS LCD	X			
TV-out / S Terminal			X	

TV-out / AV Terminal			X	
Touch Screen – 8 Wire			X	
Touch Screen – 4/5 Wire			X	
DIMM Slots	X			
Watchdog I/O n			X	
Watchdog Software Control	X			
FAN1 Connector	X			
FAN2 Connector			X	
Express card			X	
Speaker Connector			X	
LCD Backlight Power Connector			X	
DC in Connector			X	
PCI Express Mini Card			X	
Power Button	X			
Battery Connector	X			
Front Panel (CN34)	Result			Notes
	Pass	Fail	N/A	
Power On Button	X			
IDE LED	X			
External Buzzer	X			
On Board Buzzer	X			
Power LED	X			
Reset Switch	X			
Keyboard Lock	X			
Jumpers Function	Result			Notes
	Pass	Fail	N/A	
BIOS write protection Selection and boot Selection			X	
Backlight enable level Selection and LVDS Power Selection	X			
COM1 +12V/+5V/RING Selection			X	
COM2 +12V/+5V/RING Selection			X	
Auto Power button Selection and power on selection			X	
Power source selection			X	
FAN Power Selection			X	
CMOS Clear Selection	X			
LCD Brightness and speaker level Selection			X	
Power Connector & Function	Result			Notes
	Pass	Fail	N/A	
Standard AT Power Connector			X	
Standard ATX Power Connector			X	
5V Only Power Connector	X			

DC Adanter				X	
LAN Connector & Function		Result			Notes
		Pass	Fail	N/A	
LAN Link / Speed LED	LAN1	X			
	LAN2	X			
LAN Active LED	LAN1	X			
	LAN2	X			
LAN 10/100 Ethernet		X			
LAN 1G Ethernet				X	
PCI Connector & Function		Result			Notes
		Pass	Fail	N/A	
Mini PCI Slot				X	
PCI Slot				X	
PCI Express x1				X	
Express card				X	

## 2. Power Consumption Test (Run Prime95 Program) Platform Information

PCB Model / Version	HSB-668I Rev A1.01
BIOS	HSB-668I BIOS Rev 1.1 (05/12/2006)
Operating System	Windows XP Professional English Version
CPU	Onboard CPU VIA Mark CoreFusion 533MHz 0714 0.09V EFT6H GP0861.1 RJCOCA DM9107.00
Memory	SAMSUNG K4S560832C-TC75 SODRAM PC133 256MB
Primary IDE Master	SEAGATE ST340016A 40G 3.5" IDE HDD
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70 17"
LCD	N/A
Compact Flash	N/A
Chipset Software	VIA Service Pack 4.56V
Graphics Media	S3 Graphics Twister + S3 Hotkey Ver : 6.13.10.1100
LAN Driver	Realtek RTL8139/8110 Family fast Ethernet Ver .5.621.304.2005
Audio Driver	Realtek AC97 for VIA Audio Ver:5.10.0.5820
Power Supply	AOpen / FSP300-60ATV / 300W

### Test Equipment:

Equipment	AC/DC Clamp Meter
Manufacturer	PROVA
Model name	CM-01
Standard	Reference to CE EN 61010 Test Procedure
	Reference to UL Test Procedure

**Equipment Certified Calibration:**

Calibrated Company	IPE (儀寶)
S/N	00004072 (DM215)
Report No	7C21P566
Calibration Date	Jan. 14,2008
Next Calibration Date	Jan. 13, 2009
Test By	Mick

- Test Point:**
1. Power on machine and boot into Windows environment
  2. Run test software: Prime95 to make system heavy loading in order to measure its maximum current
  3. Use Prova EN61010(set as 40A) to measure each current of system different mode

Test Environment Model	ATX Power: Seventeam ST-300BLP		AT Power: ZECK ZKS-300W		Note
	CPU	Onboard CPU VIA Mark CoreFusion 533MHz 0714 0.09V EFT6H GP0861.1 RJCOCA DM9107.00		Onboard CPU VIA Mark CoreFusion 533MHz 0714 0.09V EFT6H GP0861.1 RJCOCA DM9107.00	
HDD	SEAGATE ST340016A 40G 3.5" IDE HDD		SEAGATE ST340016A 40G 3.5" IDE HDD		
RAM	SAMSUNG K4S560832C-TC75 SODRAM PC133 256MB		SAMSUNG K4S560832C-TC75 SODRAM PC133 256MB		
OS Environment	English Windows XP Professional Service Pack 2 V2002		English Windows XP Professional Service Pack 2 V2002		
Normal Mode (+5V)	2.59	A	2.96	A	
Suspend Mode (+5V)	1.67	A	1.89	A	
5VSB in Power Off Mode (just for ATX)	0	A	-----	A	
5VSB in Power On Mode (just for ATX)	0.17	A	-----	A	
Normal Mode (+12V)	N/A	A	N/A	A	
Suspend Mode (+12V)	N/A	A	N/A	A	
Normal Mode (+3.3V) (just for ATX)	N/A	A	-----	A	

Suspend Mode (+3.3V) (just for ATX)	N/A	A	-----	A	
Normal Mode (-12V)	N/A	A	N/A	A	
Suspend Mode (-12V)	N/A	A	N/A	A	
Normal Mode (-5V)	N/A	A	N/A	A	
Suspend Mode (-5V)	N/A	A	N/A	A	

### 3. Power Connector Test (110V / 220V )

Test Method	Result		
	Pass	Fail	N/A
ATX Connector - Power On/Off for 10 times in DOS (Seventeam ST-352HLP 350W)	X		
AT Connector - Power On/Off for 10 times in DOS	X		
5V Only - Power On/Off for 10 times in DOS			X

### 4. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power Off Mode	±1 second during 24 hours	X		
Watchdog Timer Test		Result		
		Pass	Fail	N/A
Time-out Interval	10 sec	X		
	60 sec	X		
	255 sec	X		

### 5. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED		Active LED				X		
		Link LED				X		
		Speed LED				X		
LAN2 LED		Active LED						X
		Link LED						X
		Speed LED						X
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
Onboard LAN1	10/100/1000 Mbps	D-Link DGS-1008T	100M	100 MBps	100	X		
		Accton DeskTop-3005	100M	1GBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	100 MBps	100	X		
Onboard LAN2	10/100/1000 Mbps	D-Link DGS-1008T	100M	100 MBps	100	X		



	Accton DeskTop-3005	100M	1GBps	100	X		
	SVEC FD916H (10 Mbps HUB)	100M	100 MBps	100	X		

## 6. Hardware Compatibility

CPU Compatible Test							
CPU Type	FSB	Prime95 Version	Result				
			Pass	Fail	N/A		
I Onboard CPU VIA Mark CoreFusion 533MHz 0714 0.09V EFT6H GP0861.1 RJCOCADM9107.00	533MHz	V2414	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
SAMSUNG	K4S560832C-TC75	PC133	256MB	V1.70	X		
INFINEON	HYB39S128800CT-75	PC133	128MB	V1.70	X		
HYNIX	HY57V561620CT-H	PC133	128MB	V1.70	X		
Audio Basic Function Test					Result		
					Pass	Fail	N/A
System Sound					X		
CD_In					X		
CD_In Sound Recorder					X		
Play Sound Recorder					X		
Line Out					X		
Line In					X		
Line In Sound Record					X		
MIC Speaker			Dynamic		X		
			Condenser		X		
MIC Sound Recorder			Dynamic		X		
			Condenser		X		
Audio 5.1 Channel with S/P DIF Function Test					Result		
					Pass	Fail	N/A
2-channel mode for stereo speaker output							X
4-channel mode for 4 speaker output							X
6-channel mode for 5.1 speaker output							X
S/P DIF function Test			Input				X
			Output				X
On Board TV Function Test					Result		
					Pass	Fail	N/A
NTSC		AV Terminal			X		
PAL					X		
NTSC		S Terminal			X		
PAL					X		
On Board LCD Function Test							

TFT LCD	Type	Voltage	Result		
			Pass	Fail	N/A
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V	X		
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	3.3V			X
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)	3.3V	X		
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V			X
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V			X
	AU M170EG01 / 17" / 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit				X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit				X
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V	X		
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X
	Sharp LQ121SIDG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X

**PCI Slot Function (PCI Adapter Card) Test**

Model	Type	Result		
		Pass	Fail	N/A
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
SC3000 CMI8738/C3DX	Sound Card			X
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card			X
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card			X
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card			X
3Com 3C905C-TXM ETHERLINK 10/100 PCI	LAN Card			X
D-Link DWL-520+ Wireless LAN	LAN Card			X
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card			X
LEMEL MD V1456VQH-P2 PCI MODEM Card	Modem Card			X
D-Link DU-520 USB 2.0	USB Hub Card			X
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card			X

**PCI-Express Function Test**

Model	Result		
	Pass	Fail	N/A
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card			X
SksKonnnect SK-9E21D 10/100/1000 Base-T Adapter PCI-Express x1 LAN Card			X
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card			X
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card			X
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X

**HDD Compatibility Test**

Model	Result		
	Pass	Fail	N/A
Seagate ST3400620A 400GB 3.5" IDE HDD	X		
Maxtor VAM51JJ0 40GB ATA/133 3.5" IDE HDD	X		

Seagate ST315320A 15.3GB ATA33 3.5" IDE HDD	X		
FUJITSU MPE 3136AH 13.6GB ATA66 3.5" IDE HDD	X		
Seagate ST3160815A 160GB Barracuda 7200.7 3.5" IDE HDD	X		
Seagate ST3160812A 160GB 3.5" IDE HDD	X		
Quantum Fireball Plug AS 30GB ATA100 3.5" IDE HDD	X		
Seagate ST380013A 80GB ATA100 3.5" IDE HDD	X		
Western WD1600JB-00REA0 160GB ATA100 3.5" IDE HDD	X		
<b>CD/DVD-ROM Compatibility Test</b>			
Model	Result		
	Pass	Fail	N/A
Pioneer DVD-ROM DVD-126D CD 40X / DVD 16X	X		
SONY DDU1632 16 x DVD ROM	X		
Acer DVP1640A / 16X / DVD-ROM / ATA33	X		
ASUS /CD S-500/A 50X CD-ROM	X		
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM/ ATA33	X		
Pioneer / DVD-121 / 16X / DVD-ROM / ATA66	X		
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33	X		
NEC / ND-2500A / DVD R/RW / +R8X-R8X / ATA33	X		
<b>IDE Cable Function test</b>			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA100	X		
44 Pin Cable ATA33			X
80 Pin Cable ATA100	X		
<b>USB Function Test</b>			
USB Basic Function Test	Result		
	Pass	Fail	N/A
USB Controller	X		
USB 2.0 Controller	X		
USB Keyboard Support	X		
USB Mouse Support	X		
USB 1.1 Compatible Test	Result		
	Pass	Fail	N/A
USB 1.1 Compatible Test	X		
USB 2.0 Compatible Test	Result		
	Pass	Fail	N/A
USB 2.0 Compatible Test	X		
USB 2.0 Function Test	Result		
	Pass	Fail	N/A
Install Windows XP Professional from HighSpeed Device: USB2.0 DRW-1604P-D/WHT/G/ASUS	X		
USB Device Full Loading Test	Result		
	Pass	Fail	N/A
ASUS DRW-1604P-D/WHT/G/DVD-RW	X		

IBM IC25N020ATCS04-0 / 20GB	X				
Transcend Flash Disk 2GB	X				
USB Card Reader+pqj 1GB CF Card	X				
Kingston Flash Disk 256MB	X				
SONY Flash Disk 256MB	X				
Floppy Disk Controller Function Test	<b>Result</b>				
	Pass	Fail	N/A		
Copy and compare file between C: and A / B:	X				
Change Floppy to None value			X		
Swap FDD	X				
<b>Peripheral Compatibility-Storage Device</b>					
Model	Interface	<b>Result</b>			
		Pass	Fail	N/A	
MO [SCSI]	SCSI		X		
IOMega ZIP 100 parallel port	Parallel		X		
DOC		X			
Type-I CF	Fix / PIO Mode		X		
Type-I CF	Fix / UDMA Mode		X		
Digital I/O Connector Test	<b>Result</b>				
	Pass	Fail	N/A		
Input Address: 2A1			X		
Output Address: 2A1			X		
VCC: (5V)			X		
DIO-1 Function Test			X		
DIO-2 Function Test			X		
<b>Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules</b>					
Interface	Model	Type	<b>Result</b>		
			Pass	Fail	N/A
PC/104	AAEON PCM-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-FA00	Mini-PCI Converter			X
	AAEON PCM-3794	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module			X
<b>On-Board RAID Function Test</b>					
Model	Interface	<b>Result</b>			
		Pass	Fail	N/A	
Set SATA HDDs as RAID 0	SATA			X	
Set SATA HDDs as RAID 1	SATA			X	
Set SATA HDDs as RAID 10	SATA			X	
Set SATA HDDs as RAID 5	SATA			X	
COM Function Test	<b>Result</b>				
	Pass	Fail	N/A		
COM Port Burn In Test overnight	X				

Disk On Module [DOM] Compatibility Test				
Model	Interface	Result		
		Pass	Fail	N/A
Transcend / TS512MDOM40V / 512MB	IDE 40 Pin	X		
Transcend / TS512MDOM44V / 512MB	IDE 44 Pin			X
Mini PCI Card Compatibility Test				
Model	Interface	Result		
		Pass	Fail	N/A
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)	LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	LAN			X
PER-C20S SATA RAID MiniPCI Card (Silicon Image Sil3512ECTU128 QF7227.1-1)	SATA			X
COM/LPT Ports & RS-232/422/485 Function Test		Result		
		Pass	Fail	N/A
RS-422 for COM2		X		
RS-485 for COM2		X		
COM1		X		
COM2		X		
COM3		X		
COM4		X		
COM5				X
COM6				X
LPT1		X		
LPT2				X
Card Bus(PCMCIA) Compatibility Function Test				
Model	Result			
	Pass	Fail	N/A	
Compact Flash Adapter (1GB PQI CF Card inserting)			X	
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)			X	
D-Link DWL-650 802.11g/2.4GHz Wireless Cardbus Adapter			X	
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X	

## 7. O.S. Compatibility Test

Installation Operation System Compatibility Test	Result		
	Pass	Fail	N/A
Linux RedHat 9.0	X		
Windows Server 2003 English Version / Standard Edition 5.2.3790			X
Windows Server 2003 English Version /Standard x64 Edition			X
Windows XP Professional English Version V2002 Service Pack 2	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2			X

Windows XP Professional Japanese Version V2002 Service Pack 2				X	
Windows XP Professional English Version /Standard x64 Edition				X	
Windows 2000 Professional English Version V5.00.2195 Service Pack 4		X			
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4				X	
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4				X	
Windows Server 2000 English Version		X			
Windows 98SE English Version V4.10.2222A		X			
MS-DOS 6.22		X			
<b>Utility and Driver Test</b>					
OS	Drivers Version		Result		
			Pass	Fail	N/A
F Linux RedHat 9.0	Chipset Software	Default Driver	X		
	Graphics Media	Default Driver	X		
	LAN Driver	Default Driver	X		
	Audio Driver	Default Driver	X		
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	VIA Service Pack 4.56v	X		
	Graphics Media	S3 Graphics Twister + S3 Hotkey 6.13.10.1100(11/7/2002)	X		
	LAN Driver	RealTek RTL 8139/810x Family Fast Ethernet 5.621.304.2005(5/16/2005)	X		
	Audio Driver	N/A	X		
Windows Server 2000 English Version	Chipset Software	VIA Service Pack 4.56v	X		
	Graphics Media	S3 Graphics Twister + S3 Hotkey 6.13.10.1100(11/7/2002)	X		
	LAN Driver	RealTek RTL 8139/810x Family Fast Ethernet 5.621.304.2005(5/16/2005)	X		
	Audio Driver	N/A	X		
Windows 98SE English Version V4.10.2222A	Chipset Software	VIA Service Pack 4.56v	X		
	Graphics Media	S3 Graphics Twister + S3 Hotkey 6.13.10.1100(11/7/2002)	X		
	LAN Driver	RealTek RTL 8139/810x Family Fast Ethernet 5.621.304.2005(5/16/2005)	X		
	Audio Driver	N/A	X		

## 8. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test	X		

Standard CMOS Setup Test	X		
Boot Sequence Test	X		
Power Management Test			
APM Power Management Test	X		
ACPI Power Management Test	X		
Power On Function Test			X
Wake Up Event Test	X		
Power On after Power Failure Test	X		
CMOS Backup / Clear CMOS Test	X		
Boot ROM Test (PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV Function Test	X		
TV Standard Function Test			X
Init Display First Function Test			X
On-Chip Serial ATA Function Test			X
SATA Mode-IDE/RAID Function Test			X

### 9. Performance Test Platform Information:

CPU Board	HSB-668I Rev:A1.01
Carrier Board	N/A
BIOS	HSB-668I Rev:A1.1 (05/12/2006)
Operating System	English Windows XP Professional Service Pack 2 V2002
CPU	Onboard CPU VIA Mark CoreFusion 533MHz 0714 0.09V EFT6H GP0861.1 RJCOCADM9107.00
Memory	SAMSUNG K4S560832C-TC75 SODRAM PC133 256MB
SATA HDD	N/A
Primary IDE Master	SEAGATE ST340016A 40G 3.5" IDE HDD
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70 17"
LCD	N/A
Compact Flash	N/A
Chipset Software	VIA Service Pack 4.56v
Graphics Media	S3 Graphics Twister + S3 Hotkey 6.13.10.1100(11/7/2002)
LAN Driver	RealTek RTL 8139/810x Family Fast Ethernet 5.621.304.2005(5/16/2005)
Audio Driver	N/A
Touchscreen Driver	N/A
Power Supply	MACS SP2-4300F 430W AT POWER

### Test Result:

Testing Software	Result	Unit
<b>PCMark2002</b>		
CPU	605	
Memory	613	
HDD	729	
<b>Final Reality V1.01—BenchMark Test</b>		
2D image	4.02	
3D	2.86	
Bus transfer	4.09	
Overall	3.39	Reality marks
<b>3Dmark2001</b>		
3DMark2001SE Build 330_Benchmark mode	215	

**Test Result:**

Testing Software	Result	Unit
<b>PCMark05</b>		
PCMark	N/A	PCMarks
CPU	N/A	
Memory	N/A	
Graphics	N/A	
HDD	N/A	
<b>3Dmark2003 v360</b>		
3Dmark Score	N/A	
CPU Score	N/A	

**Remark: Please uses below two performance software to test mainboard if the chipset is new enough.  
(ex. Intel Core 2 Duo CPU)**