

P5 Verification Test Plan

Release No : 10I010001

Product Model	HSB-800P
Description	AMD LX800/CS5536 PCI Half-Size SBC
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> CPU Board : HSB-800P Rev A1.0 <input checked="" type="checkbox"/> BIOS : HSB-800P BIOS Rev 1.0 (09/03/2009) <input checked="" type="checkbox"/> Backplane : BP-204SP-P3-A11 <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU : Geode LX800 500MHz <input checked="" type="checkbox"/> North Bridge : AMD LX800 <input checked="" type="checkbox"/> South Bridge : AMD CS5536 <input checked="" type="checkbox"/> VGA Chipset : AMD LX800 <input checked="" type="checkbox"/> Audio Chipset : AC97 Codec daughter board optional <input checked="" type="checkbox"/> Ethernet Chipset : Realtek 8100C <input checked="" type="checkbox"/> I/O Chipset : IT8712F-S <input checked="" type="checkbox"/> Remark : QE NPDP P5 Report for HSB-800P
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

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Issue date

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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	HSB-800P Rev A1.0	
BIOS / Version	HSB-800P BIOS Rev 1.0 (09/03/2009)	
CPU Type	Geode LX800 500MHz	
Memory Type	SANSUNG K4H511638F-LCCC DDR400 256MB Onboard Memory	
SATA HDD	Transcend SSD 16G - TS16GSSD25S	
Primary IDE Master	Western Digital WD800BB 80GB	
Primary IDE Slave	Pioneer DVD-ROM DVD-128A	
CRT	View Sonic E70	
LCD	AUO G065VB01 V.0 640*480*24bit 6.5" 3.3V	
Compact Flash	Transcend CF Card 4GB for Industrial TS4GCF133	
PCI-104	N/A	
Backplane	BP-204SP-P3-A11	
Expansion Board	N/A	
Operating System	[] Linux-RedHat 9.0 or [X] Fedora Core 9.0	1.2.3.4.5.6.7.8
	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 3	1.2.3.4.5.6.7.8
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows Vista™ Ultimate English Version	N/A
	Windows Vista™ Ultimate x64 Edition English Version	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	N/A
	Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	N/A
	Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	N/A
	Windows Server 2000 English Version	N/A
	Windows 98SE English Version V4.10.2222A	N/A
	MS-DOS 6.22 English Version	N/A
Power Supply	ATX Power : COOLERMASTER RS-350-PCAR-13 350W (4Pin power connector)	1.2.3.4.5.6.7.8
	AT Power : N/A	N/A
	DC Power: N/A	N/A

Test Result for Certification

1. I/O Peripheral Function Test

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	
SSD H.D 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	
DOM (Disk On Module) – 44 Pin			X	
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 1/2Ports	X			
USB 3/4 Ports	X			
USB 2.0 1/2 Ports	X			
USB 2.0 3/4 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 IRQ n			X	
Watchdog Software Control	X			
FAN1 Connector	X			
FAN2 Connector			X	
FAN3 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	Result			
	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			
	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			
CMOS Clear Selection	X			
LCD Brightness and speaker level Selection			X	
Power Connector & Function	Result			

		Pass	Fail	N/A	
Standard AT Power Connector				X	
Standard ATX Power Connector				X	
ATX + 12V(4 Pin Power Connector)		X			
5V Only Power Connector				X	
DC Adapter				X	
LAN Connector & Function		Result			
		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			
		Pass	Fail	N/A	
Mini PCI Slot				X	
PCI Slot				X	
PCI Express				X	
Express card				X	

2. Power Connector Test (110V / 220V)

Test Method	Result		
	Pass	Fail	N/A
DC Power Connector- Power On/Off for 10 times in DOS			X
Phoenix Connector (+12V) - Power On/Off for 10 times in DOS			X
ATX + 12V(4 Pin Power Connector) - Power On/Off for 10 times in DOS	X		
AT Connector - Power On/Off for 10 times in DOS			X
5V Only - Power On/Off for 10 times in DOS			X

2.1 Power Consumption Test:

- 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 KYORITSU (set as 20A) to measure each current of system different mode

Test Environment	ATX Power: COOLERMASTER RS-350-PCAR-13 350W	Note
Model		
CPU	Geode LX800 500MHz	
HDD	Western Digital WD800BB 80GB	
RAM	SANSUNG DDR400 256MB	
OS Environment	Windows XP Professional English Version V2002 Service Pack 3	
Normal Mode (+5V)	1.40	A
Suspend Mode (+5V)	0.75	A
5VSB in Power Off Mode (just for ATX)		A
5VSB in Power On Mode (just for ATX)		A
Normal Mode (+12V)	0.05	A
Suspend Mode (+12V)	0.02	A
Normal Mode (+3.3V) (just for ATX)		A
Suspend Mode (+3.3V) (just for ATX)		A
Normal Mode (-12V)		A
Suspend Mode (-12V)		A
Normal Mode (-5V)		A
Suspend Mode (-5V)		A

3. 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		
	20 sec	X		
	60 sec	X		
	120 sec	X		

4. Network HUB / LAN Connection Test

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

5. Hardware Compatibility

CPU Compatible Test							
CPU Type		FSB	Prime95 Version		Result		
					Pass	Fail	N/A
Geode LX800		500 MHz	V2414		X		
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
SANSUNG	K4H511638F-LCCC	DDR-400	256	V211	X		
Audio Basic Function Test					Result		
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		
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		
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 G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3)	3.3V			X
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V			X
	Toshiba /12.1"/1280 x 768 x 18bit (16:9)	3.3V			X
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	3.3V	X		
	AU G084SN05 V.3 / 10" / 800*600 / 24bit (4:3)	3.3v	X		
	Data Image 7" / 800*480 / 18bit (16:9)	3.3V			X
	AU M170EG01 V.D/ 17"/ 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit	5V			X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit	5V			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 LQ121S1DG11 / 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
CHANTECH 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		
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

ISA Slot Function Test

	Result		
	Pass	Fail	N/A
Creative CT4170 Sound Blaster Sound Card			X
Adaptec AHA-1510/20/22B SCSI 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 VGA Card			X
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X
HDD Compatibility Test			
SATA Model	Result		
	Pass	Fail	N/A
Western Digital WD800BB 80GB	X		
SEAGATE ST315320A 15GB	X		
DVD-ROM Compatibility Test			
Model	Result		
	Pass	Fail	N/A
Pioneer DVD-ROM DVD-128A	X		
IDE Cable Function test			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA66			X
44 Pin Cable ATA33			X
80 Pin Cable ATA100	X		
USB Function Test			
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			
Model	Pass	Fail	N/A
Mitsumi FLL3.5 D353GUE/FUE	X		
USB HDD 20GB	X		
USB Card Reader	X		
USB Mouse	X		
USB Thumb drive Sandisk 1G	X		

Floppy Disk Controller Function Test		Result			
		Pass	Fail	N/A	
Copy and compare file between C: and A / B:				X	
Change Floppy to None value				X	
Swap FDD				X	
Peripheral Compatibility-Storage Device					
Model	Interface	Result			
		Pass	Fail	N/A	
DOC				X	
Type-I CF	Fix / PIO Mode			X	
Type-I CF	Fix / UDMA Mode	X			
Digital I/O Connector Test		Result			
		Pass	Fail	N/A	
Input Address:		X			
Output Address:		X			
VCC: (5V)		X			
DIO-1 Function Test		X			
DIO-2 Function Test				X	
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules					
Interface	Model	Type	Result		
			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
On-Board RAID Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	
Set SATA HDDs as RAID 0				X	
Set SATA HDDs as RAID 1				X	
Set SATA HDDs as RAID 10				X	
Set SATA HDDs as RAID 5				X	
COM Function Test		Result			
		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				X	
Transcend / TS512MDOM44V / 512MB				X	

Mini PCI Card Compatibility Test				
Model (Use PCI-104 transform board: MBC-1TM Rev.A1.0)	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		
LPT1		X		
LPT2				X
Card Bus(PCMCIA) Compatibility Function Test				
Model	Result			
	Pass	Fail	N/A	
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)			X	
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			X	
Kingston datapack DP-PCM2 / 2GB (PC Card TypeII HDD)			X	
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X	

6. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result		
			Pass	Fail	N/A
[] Linux-RedHat 9.0 or [X] Fedora Core 9.0 [] Cent OS 5.2			X		
Windows Server 2003 English Version / Standard Edition 5.2.3790					X
Windows Server 2003 English Version /Standard x64 Edition					X
Windows Vista™ Ultimate English Version			X		
Windows Vista™ Ultimate x64 Edition English Version			X		
Windows XP Professional English Version V2002 Service Pack 3			X		
Windows XP Professional English Version /Standard x64 Edition			X		
Windows 2000 Professional English Version V5.00.2195 Service Pack4					X
Windows Server 2000 English Version					X
Windows 98SE English Version V4.10.2222A					X
DOS 6.22 English Version					X
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Fedora Core 9	Chipset Software	Fedora Core 9 Default setting	X		
	Graphics Media	Fedora Core 9 Default setting	X		
	LAN Driver	Fedora Core 9 Default setting	X		
	Audio Driver	N/A			X
Windows Vista™ Ultimate x64 Edition English Version	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Vista™ Ultimate English Version	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows XP Professional English Version V2002 Service Pack 3	Chipset Software	Geode LX AES Crypto Driver 2.1.1.0 (12/8/2006)	X		
	Graphics Media	Advanced Micro Devices Win 2K/XP Graphics Driver 3.3.6.0 (1/2/2007)	X		
	LAN Driver	Realtek RTL8139 Family PCI Fast Ethernet NIC 5.398.613.2003 (7/1/2001)	X		
	Audio Driver	Geode WDM Audio Driver for Samba 3.0.0.0 (6/29/2006)	X		
Windows XP Professional x64 Edition English Version Service Pack 2 V2002	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software	N/A			X
	Graphics Media	N/A			X

	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows Server 2000 English Version	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X
Windows 98SE English Version V4.10.2222A	Chipset Software	N/A			X
	Graphics Media	N/A			X
	LAN Driver	N/A			X
	Audio Driver	N/A			X

7. 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 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
PC Health Status			
Voltage Monitor Test	X		
FAN Speed Monitor Test			X
Temperature Monitor Test			X
Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test	X		
BIOS AWDFLASH Program Test	X		
TPM Function Test			X
IAMT Function Test			X
DVMT Function Test			X
AAEON Tag Check Utility	X		

8. Performance Test

Platform Information

PCB Model	HSB-800P Rev A
Backplane	BP-204SP-P3-A11
BIOS	HSB-800P BIOS Rev 1.0 (09/03/2009)
Operating System	Windows XP Professional English Version V2002 Service Pack3
CPU	Geode LX800 500MHz
Memory	SANSUNG K4H511638F-LCCC DDR400 256MB Onboard Memory
SATA HDD	Transcend SSD 16G - TS16GSSD25S
Primary IDE Master	Western Digital WD800BB 80GB
Primary IDE Slave	Pioneer DVD-ROM DVD-128A
CRT	View Sonic E70
Compact Flash	Transcend CF Card 4GB for Industrial TS4GCF133
Riser Card	N/A
Expansion Board	N/A
Chipset Software	Geode LX AES Crypto Driver 2.1.1.0 (12/8/2006)
Graphics Media	Advanced Micro Devices Win 2K/XPGraphics Driver 3.3.6.0 (1/2/2007)
LAN Driver	Realtek RTL8139 Family PCI Fast Ethernet NIC 5.398.613.2003 (7/1/2001)
Audio Driver	Geode WDM Audio Driver for Samba 3.0.0.0 (6/29/2006)
Touchscreen Driver	N/A
Power Supply	COOLERMMASTER RS-350-PCAR-13 350W

Test result:

Final Reality V1.01—BenchMark Test (Reality Marks)		
2D Image	3.36	
3D	N/A	
Bus transfer	6.33	
Overall	2.22	
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	N/A	
PCMark2002		
CPU	594	
Memory	1030	
HDD	721	
PCMark05		
PCMark	N/A	
CPU	296	
Memory	402	
Graphics	N/A	
HDD	3098	
3Dmark2003 v360		
3Dmark Score	N/A	