

Mainboard Product Certification Report

Release No : 03E010264

Product Model	HSB-660I
Product Description	AIO Half-size ISA CPU Card.FC-PGA2.LCD. RTL8110S+I82551ER.AC97.CFD.Rev.A 0.1 AIO Half-size ISA CPU Card.FC-PGA2.LCD. RTL8100C+RTL8139DL.AC97.CFD.Rev.A 0.1
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : HSB-660I Rev.A0.1 <input checked="" type="checkbox"/> BIOS: HSB-660S BIOS Rev.1.0 (08/11/2003) <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component: <input checked="" type="checkbox"/> General Function <input checked="" type="checkbox"/> Chipset: North Bridge: VIA / S3 ProSavage PL133 / VT8604 / NFCOEA / 0043 CD4013.00 South Bridge: VIA / VT82C686B / 0118CD /1KB000359 <input checked="" type="checkbox"/> Audio Chipset: VIA VT1611A <input checked="" type="checkbox"/> Ethernet Chipset: RTL 8139C / 14490T1 <input checked="" type="checkbox"/> I/O Chipset: Winbond W83977EF-AW

2003-10-20

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Issue date

A.V.P.

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0°C~60°C for 48hours)	PASS
Dynamic Burn-In test. (Power On/Off Operating at 0°C~60°C for 24hours)	PASS
Audio Play For Sound Codec Chipset Burn-In Test .(Operating at 0°C & 60°C for 2hours)	PASS
LAN Chipset Burn_In Test. (Operating at 0°C & 60°C for 2hours)	PASS
Boot_Up Burn_In Test .(Operating at Room Temp.)	PASS
Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	PASS
RTC timer accuracy of +/-3 sec per day.	PASS
Watchdog timer accuracy of +/-20 % per sec/ min.	PASS
Margin Test – Power Consumption – PIII 1.4G , SDRAM 256MB	Result
Electrical characteristics – Normal Mode(+3.3V)	2.53 A
Electrical characteristics – Standby Mode(+3.3V)	2.47 A
Electrical characteristics – Normal Mode(+5V)	5.23 A
Electrical characteristics – Standby Mode(+5V)	4.65 A
Electrical characteristics – Normal Mode(+12V)	0.25 A
Electrical characteristics – Standby Mode(+12V)	0.11 A
Power VCC 4.75V to 5.25V Margin test .	PASS
Power Connector Test – AT Power To ATX Motherboard	PASS
Network HUB / LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	PASS
LAN1 D-Link DES-1008 [100 / 10 Mbps]	PASS
LAN1 Intel InBusiness 8 Ports [100 / 10 Mbps]	PASS
LAN1 LEMEL LM-S5 5 Ports [100 / 10 Mbps]	PASS
LAN1 Accton DeskTop-3005 [100 / 10 Mbps]	PASS
LAN1 SVEC FD916H [10 Mbps]	PASS
LAN2 HP J4095A 24Ports [100 /10 Mbps]	PASS
LAN2 D-Link DES-1008 [100 / 10 Mbps]	PASS
LAN2 Intel InBusiness 8 Ports [100 / 10 Mbps]	PASS
LAN2 LEMEL LM-S5 5 Ports [100 / 10 Mbps]	PASS
LAN2 Accton DeskTop-3005 [100 / 10 Mbps]	PASS
LAN2 SVEC FD916H [10 Mbps]	PASS
Touch Screen for serial Ports Test	Result
COM 1 Serial Port	PASS
COM 2 Serial Port	PASS

CPU Compatible Test	Result
Pentium III 1.4G (133 FSB)	PASS
Pentium III 1.2G (133 FSB)	PASS
Pentium III 933 (133 FSB)	PASS
Pentium III 850 (100 FSB)	PASS
Celeron 1G (100 FSB)	PASS
Celeron 766 (66 FSB)	PASS
C3 800 (133)	PASS
Memory Test – SDRAM PC-133/100	Result
Infineon / HYB39S64800CT-75 / PC133 / 128MB	PASS
HYNIX / HYNIX HY57V56820BT-H / PC133 / 512MB	PASS
Hyundai / HY57V658020 TC-10 / PC-100 / 128MB	PASS
Kingston / Winbond 202DB W982508BH-75 / PC133 / 512MB	PASS
NEC / D45128841G5-A75-9JF / PC133 / 128MB	PASS
NEC / D4564841G5-A80-9JF / PC100 / 128MB	PASS
SAMSUNG / K4S280832D-TC75 / PC133 / 256MB	PASS
SEITEC / PM72V56841CT-6 / PC-133 / 512MB	PASS
WINBOND / Winbond 107DD W981208BH-75 / PC133 / 256MB	PASS
On Board Audio Function Test	Result
System Sound	PASS
Play CD_IN	PASS
Play Sound Recorder	PASS
Line Out	PASS
Line In	PASS
Line In Sound Recorder	PASS
MIC Speaker – Dynamic / Condenser	PASS
MIC Speaker Recorder – Dynamic / Condenser	PASS
VGA Card Compatible Test	Result
CIRRUS LOGIC 5429 / ISA Card	PASS
Multi Media Card Compatible Test	Result
Lemel ESS ES1868F 3D/16 PnP (ISA bus)	PASS
SCSI Card Compatible Test	Result
AHA-1520B (ISA bus)	PASS
LAN Card Compatible Test	Result
3COM ETHERLINK (ISA bus)	PASS
Intel PILA8560 (10/100MB) (ISA bus)	PASS

HDD Compatible Test	Result
IBM DTLA-307075 / 76.8GB / ATA100	PASS
IBM DTLA-307045 / 46.1GB / ATA100	PASS
Maxtor 2F030L0710612 / 30GB / ATA133	PASS
Maxtor 2F040L07106L3 / 40GB / ATA133	PASS
Maxtor 4G160J8 / 160GB / ATA100	PASS
Quantum LB15A492 / 15GB / ATA100	PASS
Seagate / ST3120026AS / 120G / ATA100	PASS
Seagate / Model ST380021A / 80G / ATA100	PASS
IBM DNES-309170 / 9GB / SCSI HDD	PASS
CDROM / DVDROM Test	Result
ASUS / 8520/A2/ASUS/52X/G / 52X	PASS
BENQ / 652A / 52X	PASS
LEMEL / LCD-5200S-563 / 52X	PASS
TEAC CD-540E / 40X	PASS
SONY CDU5231 / 52X	PASS
MITSUMI FX5400W / 54X	PASS
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	PASS
ACER / DVP 1640A / 16X / DVD-ROM	PASS
SONY / CRX220A1 / 52X /24X /52X / CD-RW	PASS
Acer 6406EU-122/ 4W6R / USB-CD-ROM	PASS
PLEXTIR / PX-S88TU / 8Write8Rewrite24Read / USB-CD-RW	PASS
USB Compatible Test	Result
CMOS Setting Test	PASS
CyberLink Power DVD XP4.0 Remote control	PASS
Acer 6406EU-122 CD-ROM	PASS
HP SJ4200C Scanner	PASS
HP Photo Smart P1000 Print	PASS
IOMEGA ZIP 100MB	PASS
D-Link DSB-H4/ DU-H4 HUB	PASS
MITSUMI FLL3.5 D353GUE/FUE	PASS
Floppy Disk Controller Test	Result
Copy and Compare file between C : and A/B	PASS
Format A/B with system transfer and boot PC from floppy	PASS
Change CMOS Floppy is NONE value	PASS
SWAP FDD	PASS
Peripheral Storage Device Compatible test	Result
IOMEGA ZIP100M (Parallel Type)	PASS
IOMEGA ZIP100M (IDE Type)	PASS
Compact Flash	PASS

Industry Control Adapter Card Compatible Test-PC104/PC104Plus	Result
AAEON PCM-5600 / Fax/Modem Module	PASS
AAEON PCM-3115B / PCMICA Module	PASS
AAEON PCM-3640 / RS-232 Module	PASS
On Board I / O Function Test	Result
COM Port Send-Receive Test	PASS
CheckIt 7.0 Portable Edition Test	PASS
Disk On Module [DOM] Compatibility Test	Result
DOM-256-026P / Rev.A1k20 / IDE 40 Pin	PASS
System Integer Application Test	Result
ISA cards integer application	PASS
Riser Card integer application	PASS
BIOS Function Test	Result
Standard CMOS Setup Test	PASS
Boot Sequence Test	PASS
APM Power manager test	PASS
ACPI Power manager test	PASS
Power On Function test	PASS
Wake Up Event Test	PASS
CMOS backup Test	PASS
Boot ROM Test	PASS¹
COM Address/IRQ Test	PASS
LPT Address /IRQ Test	PASS
Hardware Monitor Test	PASS
Supervisor / User Password Test	PASS
BIOS Awdflash Program Test	PASS
Performance Test – CPU Pentium III 1.2G , DRAM 128MB / PC133	Result
LandMark Speed 2.0 – CPU	5256.31
LandMark Speed 2.0 – FPU	13441.50
LandMark Speed 2.0 – VIDEO	61440.00
WinBench 99 V1.1- CPU mark99	95.7
WinBench 99 V1.1- FPU winmark	6580
WinBench 99 V1.1- Business Graphic winmark99	255
WinBench 99 V1.1- High_End Graphic winmark99	779
Final Reality V1.01 BenchMark Test – 2D image	7.77
Final Reality V1.01 BenchMark Test – 3D	4.90
Final Reality V1.01 BenchMark Test – Bus transfer	3.85
Final Reality V1.01 BenchMark Test – Overall	5.60
3D WinBenech 2000 v1.0 with DirectX8 and 1024x768x16Bits-Processor Test	2.0
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	44.6
WinStone 99 V1.1 – High_end winstone99	64.4
WinStone 99 V1.1 – Business winstone99	41

Operation System Compatible Test	Result
Linux Red Hat 8.0	PASS
Windows 98SE English version	PASS
Windows NT workstation 4.0 English version with service pack 6	PASS
Windows 2000 professional English version with service pack 4	PASS
Windows XP Professional English version with service pack 1a	PASS
DOS and DOS Utility Compatibility Testing	PASS
Utility and Driver Test	Result
Red hat Linux 8.0 hardware compatible list for VGA	PASS
Red hat Linux 8.0 hardware compatible list for LAN	PASS²
Red hat Linux 8.0 hardware compatible list for Audio	PASS
VGA for Windows 98SE (Onboard S3 Pro Savage 4.13.01.3025)	PASS
VGA for Windows NT 4.0 (Onboard S3 Pro Savage 13.10.02)	PASS
VGA for Windows 2000P (Onboard S3 Pro Savage 6.13.10.1030)	PASS
VGA for Windows XP (Onboard S3 Pro Savage 6.13.10.1031)	PASS
LAN for Windows 98SE (Realtek RTL8139D 5.505.1004.2002)	PASS
LAN for Windows NT 4.0 (Realtek RTL8139D)	PASS
LAN for Windows 2000P (Realtek RTL8139D 5.505.1004.2002)	PASS
LAN for Windows XP(Realtek RTL8139D 5.505.1004.2002)	PASS
LAN for Windows 98SE (Realtek RTL8100C 5.505.1004.2002)	PASS
LAN for Windows NT 4.0 (Realtek RTL8100C)	PASS
LAN for Windows 2000P (Realtek RTL8100C 5.505.1004.2002)	PASS
LAN for Windows XP(Realtek RTL8100C 5.505.1004.2002)	PASS
LAN for Windows 98SE (Realtek RTL8110S 5.605.804.2003)	PASS³
LAN for Windows NT 4.0 (Realtek RTL8110S 5.605.804.2003)	PASS
LAN for Windows 2000P (Realtek RTL8110S 5.602.619.2003)	PASS
LAN for Windows XP(Realtek RTL8110S 5.605.804.2003)	PASS
LAN for Windows 98SE (Intel 82551ER 1.0.0.1)	PASS
LAN for Windows NT 4.0 (Intel 82551ER 1.0.0.1)	PASS
LAN for Windows 2000P (Intel 82551ER 1.0.0.1)	PASS
LAN for Windows XP (Intel 82551ER 1.0.0.1)	PASS
Sound for Windows 98SE (Realtak ALC201 AC97 Codec 5.10.0.4010)	PASS
Sound for Windows NT 4.0 (Realtak ALC201 AC97 Codec 4.3.0.3030)	PASS
Sound for Windows 2000P (Realtak ALC201 AC97 Codec 5.10.0.4010)	PASS
Sound for Windows XP (Realtak ALC201 AC97 Codec 5.10.0.4010)	PASS
LCD Monitor Function Test	Result
ViewSonic E655 / CRT / 15"	PASS
Samsung / LTM150XS-T01 / TFT / 15"	PASS
CRT+LCD or CRT+LCD+TV – Dual or Three Display Function Test	PASS

Miscellaneous Test	Result
Windows 98 Power manager test	PASS
Windows 2000 Power manager test	PASS
H/W Reset	PASS
Ext. Speaker	PASS
On board buzzer	PASS
HDD LED	PASS
Power LED	PASS
Ext. KB connector	PASS
ATX power button	PASS
CPU FAN connector	PASS
COM1	PASS
COM2	PASS
COM2-RS-422	PASS
COM2-RS-485	PASS
LPT1	PASS
PS2 Keyboard / Mouse	PASS
SIR / 115K bps	PASS
LCD Display Function Test	PASS

Summary OF Result	
PASS¹	8110S PXE Boot Form LAN function with BIOS Rev.1.0 test is OK . Regarding RPL, supplier didn't provided BIOS code to support RPL, so RPL not available.
PASS²	There's no suitable driver for RTL8110 ,under RedHat 8.0
PASS³	Installs Realtek RTL8110S Driver for Win98se, it will appear the message of "no finding netrll.cat file", user must will choose "skip" then install it.