

Backplane Compatibility Verification Test

Release No : 05I010010_I

Product Model	BP-210SP-P9
Product Description	10 Slot BP;1 PICMG_PCI/9 PCI /Single Segment, ATX Rev.A1.0
Test Environment	<input checked="" type="checkbox"/> BackPlane : BP-210SP-P9 A1.0 <input checked="" type="checkbox"/> M/B Model: HSB-835P-A10 <input checked="" type="checkbox"/> BIOS Version: HSB-835P BIOS Rev 1.0 <input checked="" type="checkbox"/> M/B Chipset <input checked="" type="checkbox"/> North Bridge : Intel 865GV <input checked="" type="checkbox"/> South Bridge : Intel 882801EB/ER(ICH5/ICH5R) <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 AC97(Daughter Board) <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82562EZ / 82547GI <input checked="" type="checkbox"/> I/O Chipset : Winbond W83627HF-AW <input checked="" type="checkbox"/> Remark : BP-210SP-P9 A1.0 NPDP Trial Run Sample Test Report

*2005/10/20**Issue date*

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Summary Table of contents :

QE compatibility test plan of version release record-----2

Summary Table of contents-----3

1. CPU Card Boot up/Restart Test-----4

2. Backplane Compatibility Verification Test-----5

3. Backplane PCI/ISA/AGP/PICMG Slot Function Test -----6-7

A. PCI Slot-Voltage Function Test of backplane/Riser Card-----6

B. Backplane PCI/ISA/AGP/PICMG Slot Function Test-----6

B-1. Backplane PICMG Slot Function Test-----6

B-2. Backplane PCI Slot Function Test-----7

B-3. Backplane ISA Slot Function Test-----7

B-4. Backplane AGP Slot Function Test-----7

C. Adapter Card Function Test-----7

4. Hardware Compatibility Test-----8

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

Pass: It worked perfectly

Fail: Test failed, and to be modified in the next version

N/A: Outside of specifications or no test equipment

The test report would be tested and updated after version changed.

1. CPU Card Boot up / Restart Test

Platform Information

PCB Model / Version	HSB-835P A1.0
BIOS	HSB-835P BIOS Rev 1.0
Operating System	Windows 2000P / 5.00.2195
CPU	Intel / Pentium 4 CPU 3.20GHz(200*16.0)
Memory	SAMSUNG /K4H560438E-GCCC / DDR400 /1GB
Primary IDE Master	Maxtor 80G
Primary IDE Slave	Lite On CD-ROM LTN-527T
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Backplane	BP-210SP-P9 A1.0
Riser Card	N/A
Onboard VGA Chipset / Driver Version	Intel® 82865G Graphics Driver Ver.6.14.10.3722
Onboard LAN Chipset / Driver Version	Intel® PRO/100VE / Driver Ver.7.0.26.0
Onboard Audio Chipset / Driver Version	Realtek ALC655 AC'97 Audio Controller (WDM) / Driver Ver.5.10.0.5530
Power Supply	AOpen AO350-12AHN ATX Power

1.1. Keyboard & H/W Reset Test : Under Room Temperature [25°C].

AT Power Supply [V] No Support

Test Method	Actual	Successful	Failure rate	N/A	Note
H/W Reset 10 Times (Dos Mode)			%	V	
KB Reset 10 Times (Dos Mode)			%	V	

1.2. Keyboard & H/W Reset Test : Under Room Temperature [25°C].

ATX Power Supply : AOpen AO350-12AHN ATX Power []No Support

Test Method	Actual	Successful	Failure rate	N/A	Note
H/W Reset 10 Times (Dos Mode)	10	10	0 %		
KB Reset 10 Times (Dos Mode)	10	10	0 %		

2.Backplane Compatibility Verification Test

Platform Information

PCB Model / Version	HSB-835P A1.0
BIOS	HSB-835P BIOS Rev 1.0
Operating System	Windows 2000P / 5.00.2195
CPU	Intel / Pentium 4 CPU 3.20GHz(200*16.0)
Memory	SAMSUNG /K4H560438E-GCCC / DDR400 /1GB
Primary IDE Master	Maxtor 80G
Primary IDE Slave	Lite On CD-ROM LTN-527T
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Backplane	BP-210SP-P9 A1.0
Riser Card	N/A
Onboard VGA Chipset / Driver Version	Intel® 82865G Graphics Driver Ver.6.14.10.3722
Onboard LAN Chipset / Driver Version	Intel® PRO/100VE / Driver Ver.7.0.26.0
Onboard Audio Chipset / Driver Version	Realtek ALC655 AC'97 Audio Controller(WDM) / Driver Ver.5.10.0.5530
Power Supply	AOpen AO350-12AHN ATX Power

2.1. Backplane Jumper / Connector / LED Function Test:

Test Item	Result			Note
	PASS	FAIL	N/A	
Connector				
CN1 (8 pin Alarm Board Connector)			V	PM does not provide Alarm Board
CN2 (SMBus function, from CPU Card to Alarm Board signal, 2 pin connector)			V	PM does not provide Alarm Board
CN3 (PS-ON function, to CPU Card for ATX Power signal, 3 pin connector)	V			
CN4 (3 pin +12V DC Fan connector)	V			
CN5 (3 pin +12V DC Fan connector)	V			
KB1 (KB_Out, 5 pin external K/B connector)	V			
KB2 (KB_In, from CPU card K/B connector)	V			
KB3 (KB_Out, 5 pin external K/B connector)	V			
KB4 (PS/2 Keyboard Connector)			V	
KB5 (AT keyboard connector(Optional))			V	
Power Connector				
ATX1	V			
AT1			V	
PWR1			V	
PWR2			V	
LED (PCB Printout)				
LED1 (+3.3V)	V			
LED2 (+5V)	V			
LED3 (+12V)	V			
LED4 (-12V)	V			
LED5 (+5VSB)	V			

2.2. Backplane PCI/ISA/AGP/APCI Slot Function Test

2.2.1. PCI Slot – Voltage Function Test

Use EP-P80P Rev: 0.1 : PCI Debug Card [DG-200200] [] No Support

Device Item	5V / D8		3.3V / D7		-12V / D6		+12V / D5		Note
	PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL	
PCI1	V		V		V		V		LED Light
PCI2	V		V		V		V		LED Light
PCI3	V		V		V		V		LED Light
SPCI1	V		V		V		V		LED Light
SPCI2	V		V		V		V		LED Light
SPCI3	V		V		V		V		LED Light
SPCI4	V		V		V		V		LED Light
SPCI5	V		V		V		V		LED Light
SPCI6	V		V		V		V		LED Light

2.2.2. Adapter Card List:

Backplane (APCI Slot)		
Category	Type	Note
CPU Card	HSB-835P A1.0	
Adapter Card (PCI)		
Category	Type	Note
VGA Card	Matrox G450 G45FMDVP32DB	[VC-200203]
Sound Card	SC3000 CMI8738/C3DX Sound Card	[SC-001]
SCSI Card	Tekram DC-395U Ultra SCSI	[SS-200200]
LAN Card	Realtek RTL8139 Family PCI Fast Ethernet NIC	[NW-015]
Modem Card	Genuine EM56-IH	[MD-007]
Adapter Card (ISA)		
Category	Type	Note
Sound Card	Creative Sound Blaster CT4170	[SC-006]
LAN Card	Intel EtherExpress™ PRO/100 LAN Adapter	[NW-006]
LAN Card	NE2000 Compatible LAN Card (RTL8019AS)	[NW-014]
Adapter Card (AGP)		
Category	Type	Note
VGA Card	ELSA / GLADIAC 528 128MB / AGP 8X VGA Card	[VC-2003002]
VGA Card	ASUS / V7100 Pro SE Geforce2 MX-400 64MB / AGP 4X/2X/1X VGA Card	[VC-200201]
VGA Card	ATI / Radeon VE 32MB / AGP 4X/2X/1X VGA Card	[VC-200202]
VGA Card	WinFast A6200 TDH / AGP 8X / 64bit / 128MB / nVIDIA	[VC-200502]

2.2.3. PCI Card Function Test:

The Result: [] No Support

Adapter Card / CPU Card	Position	Detection		Function		Note
		Pass	Fail	Pass	Fail	
[VC-200203]	PCI1	V		V		
	PCI2	V		V		
	PCI3	V		V		
	SPCI1	V		V		
	SPCI2	V		V		
	SPCI3	V		V		
	SPCI4	V		V		
	SPCI5	V		V		
	SPCI6	V		V		

[SC-001]	PCI1	V		V		
	PCI2	V		V		
	PCI3	V		V		
	SPCI1	V		V		
	SPCI2	V		V		
	SPCI3	V		V		
	SPCI4	V		V		
	SPCI5	V		V		
	SPCI6	V		V		
[SS-200200]	PCI1	V		V		
	PCI2	V		V		
	PCI3	V		V		
	SPCI1	V		V		
	SPCI2	V		V		
	SPCI3	V		V		
	SPCI4	V		V		
	SPCI5	V		V		
	SPCI6	V		V		
[NW-015]	PCI1	V		V		
	PCI2	V		V		
	PCI3	V		V		
	SPCI1	V		V		
	SPCI2	V		V		
	SPCI3	V		V		
	SPCI4	V		V		
	SPCI5	V		V		
	SPCI6	V		V		
[MD-007]	PCI1	V		V		
	PCI2	V		V		
	PCI3	V		V		
	SPCI1	V		V		
	SPCI2	V		V		
	SPCI3	V		V		
	SPCI4	V		V		
	SPCI5	V		V		
	SPCI6	V		V		

2.2.4. ISA Card Function Test:
The Result: [V]No Support

Adapter Card	Position	Detection		Function		Note
		Pass	Fail	Pass	Fail	
[SC-006]	ISA1					
	ISA2					
	ISA3					
[NW-006]	ISA1					
	ISA2					
	ISA3					
[NW-014]	ISA1					

	ISA2					
	ISA3					

2.2.5. AGP Card Function Test:

The Result: [V]No Support

Adapter Card	Position	Detection		Function		Note
		Pass	Fail	Pass	Fail	
[VC-2003002]	AGP1					
[VC-200201]	AGP1					
[VC-200202]	AGP1					
[VC-200502]	AGP1					

2.3. APCI Slot Function Test

The Result: [V]No Support

CPU Card	Position	Install Windows XP Professional V2002 Service Pack 2		Install Drivers		Function		Note
		Pass	Fail	Pass	Fail	Pass	Fail	
HSB-835P 1.0	APCI1							
	ACPI3							

2.4. Adapter Card Full Loading Test (Run PassMark Burn-In Test V4.0 for 8 hours)

Position	Adapter Card	Detection		Installation		Function		N/A	Note
		Pass	Fail	Pass	Fail	Pass	Fail		
CPCI1	HSB-835P	V		V		V			CPU BOARD
PCI1	[NW-015]	V		V		V			LAN CARD
PCI2	[NW-013]	V		V		V			LAN CARD
PCI3	[MD-007]	V		V		V			MODEM CARD
SPCI1	[SC-001]	V		V		V			SOUND CARD
SPCI2	[SS-200200]	V		V		V			SCSI CARD
SPCI3	[VC-200200]	V		V		V			VGA CARD
SPCI4	[NW-200403]	V		V		V			LAN CARD
SPCI5	[VC-200203]	V		V		V			VGA CARD
SPCI6	[DG-200200]	V		V		V			DEBUG CARD

3. Hardware Compatibility

Platform Information

PCB Model / Version	HSB-835P A1.0
BIOS	HSB-835P BIOS Rev 1.0
Operating System	Windows 2000P / 5.00.2195
CPU	Intel / Pentium 4 CPU 3.20GHz(200*16.0)
Memory	SAMSUNG /K4H560438E-GCCC / DDR400 /1GB
Primary IDE Master	Maxtor 80G
Primary IDE Slave	Lite On CD-ROM LTN-527T
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Backplane	BP-210SP-P9 A1.0
Riser Card	N/A
Onboard VGA Chipset / Driver Version	Intel® 82865G Graphics Driver Ver.6.14.10.3722
Onboard LAN Chipset / Driver Version	Intel® PRO/100VE / Driver Ver.7.0.26.0
Onboard Audio Chipset / Driver Version	Realtek ALC655 AC'97 Audio Controller(WDM) / Driver Ver.5.10.0.5530
Power Supply	AOpen AO350-12AHN ATX Power

Test Result:

OS	CPU Type	FSB	Test Item	Result		Note
				Pass	Fail	
Windows XP Professional V2002 Service Pack 2	Intel® Pentium® 4 CPU 3.20 GHz (200x16.0)	200MHZ	CPU CMOS Message	V		HCT Version : 9.5 Memory : SAMSUNG /K4H560438E-GCCC / DDR400 /1GB
			HCT System Stress	V		