

# QE 【Backplane】

## P5 Verification Test Plan

Release No : 08I010004

Product Model	<b>BP-206SH-P3</b>
Description	<b>6 Slot PICMG1.3BP</b>
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : FSB-960H A0.2+BP-206SH A0.1 <input checked="" type="checkbox"/> BIOS : FSB-960H BIOS Rev.0.51  <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> North Bridge : Intel Q35+ICH 9 <input checked="" type="checkbox"/> South Bridge : Intel NH82801 IU <input checked="" type="checkbox"/> VGA Chipset : Intel G33 Express <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82566X/ 82562V/ 82573V/E <input checked="" type="checkbox"/> I/O Chipset : Intel ICH 9  <input checked="" type="checkbox"/> Remark : P5 test Report for BP-206SH-P3 A0.1
<b>Test Result Summary</b>	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation  Comment: _____ _____	

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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.

**Platform Information:**

PCB Model / Version	FSB-960H A0.2
BIOS	FSB-960H BIOS Rev.0.51
Operating System	Windows XP Professional English Version V2002 Service Pack 2
CPU	Intel Core 2 CPU 4300 1.80GHz
Memory	Transcend DDR II 800 1GB(SEC640ZCE7 K4T51083QC)
Primary IDE Master	WD 800BEVS-22RST0 80GB
Primary IDE Slave	N/A
CRT	ViewSonic CRT 17" E70
LCD	N/A
Compact Flash	N/A
Backplane	BP-206SH A0.1
Riser Card	N/A
Chipset Software	Intel Chipset Device Software Ver:8.3.0.1013(03/05/2007)
Graphics Media	Intel G33/G31 Express Chipset Family Ver:6.14.10.4833(05/25/2007)
LAN Driver	Intel 82562V-2 10/100 Network Connection Ver:9.8.20.0(04/13/2007) Intel PRO/1000 PL Network Connection Ver:9.8.20.0(04/13/2007)
Audio Driver	N/A
Power Supply	Seventeam ST-400EAG-05F 400W ATX Power

# 1.CPU Card Boot up / Restart Test

## 1.1. Power On/Off Test :

Test Points: 1. Please pay attention to the power supply voltage switch is set as 115V or 230V

2. Use voltage Modulator: 50 / 60-SER, INPUT 220V, OUT 0~260V MAX, TA1 YEE SHING to modulate voltage(100V / 210V) to fit the following conditions

Under Temperature: 25 °C

Power Supply Type: Seventeam ST-400EAG-05F 400W ATX Power

Test Method	Result			Actual	Successful	Failure rate	Note
	Pass	Fail	N/A				
Power On / Off Test in Dos Mode (100V)	X			10	10	0 %	Failure rate allowance: 0/10
Power On / Off Test in Dos Mode (210V)	X			10	10	0 %	Failure rate allowance: 0/10

## 1.2. Reset Test :

Under Temperature: 25 °C

Power Supply Type: Seventeam ST-400EAG-05F 400W ATX Power

Test Method	Result			Actual	Successful	Failure rate	Note
	Pass	Fail	N/A				
KB Reset in Dos Mode (110V)	X			20	20	0 %	Failure rate allowance: 0/20
Hardware Reset in Dos Mode (110V)	X			20	20	0 %	Failure rate allowance: 0/20

## 2. Backplane Compatibility Verification Test

### 2.1. Backplane Jumper / Connector / LED Function Test:

Test Item	Result			Note
	Pass	Fail	N/A	
<b>Connector</b>				
CN1 (8 pin Alarm Board Connector)	X			
CN2 (SMBus function, from CPU Card to Alarm Board signal, 2 pin connector)	X			
CN3 (PS-ON function, to CPU Card for ATX Power signal, 3 pin connector)	X			
CN4 (3 pin +12V DC Fan connector)	X			
CN5 (3 pin +12V DC Fan connector)	X			
CN6 Main Rest Button	X			
CN7 Main ATX Power Button	X			
KB1 (KB-In/Out, 5 pin external K/B Connector)	X			
KB2 (KB-In/Out, 5 pin external K/B Connector)	X			
PS1	X			
USB1	X			
USB2	X			
SATA1	X			
SATA2	X			
<b>Power Connector</b>				
ATX1	X			
ATX2	X			
PWR1			X	
PWR2			X	
<b>LED (PCB Printout)</b>				
LED1 (-5V)	X			
LED2 (-12V)	X			
LED3 (+5V)	X			
LED4 (+12V)	X			

### 2.2. Backplane PCI/ISA/PCI Express/PCI-X Slot Function Test

#### 2.2.1. Adapter Card List:

Backplane (PICMG Slot)		
Category	Type	Note
CPU Card	FSB-960H A0.2	
Adapter Card (PCI)		
Category	Type	Note
VGA Card	CECUBE GC-R9250PCI-D3 (ATI REDEON9250 256MB)	[VC-200601]
	CHAINTECH NVIDIA GeForce4 MX440-8X	[VC-200200]
Sound Card	SC3000 CMI8738/C3DX	[SC-001]

SCSI Card	Takram DC-395U V1.02	[SS-200200]
	ADAPTEC Ultra160 SCSI ASC-29160	[SS-200201]
Capture Card	I-VIEW CP-1400AS (with Age STD-477FAI CCD)	[CP-200501]
LAN Card	Intel GD82559 10/100 Mbps Fast Ethernet Adapter	[NW-013]
	Realtek RTL8139B Ethernet	[NW-015]
	D-Link DWL-520+ Wireless LAN	[NW-2002001]
RAID Card	ADAPTEC 1420SA RoHS 4-Port SATA II RAID	[SS-200602]
Other	D-Link DU-520 USB 2.0	[DU-001]
	Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	[SA-001] +[ID-200305]
<b>Adapter Card (PCI Express x4)</b>		
Category	Type	Note
RAID Card	Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4	[RA-200701]
<b>Adapter Card (PCI Express x16)</b>		
Category	Type	Note
VGA Card	ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16	[VC-200602]

### 2.2.2. PCI Card Function Test:

Adapter Card / CPU Card	Position	Detection			Function			Note
		Pass	Fail	N/A	Pass	Fail	N/A	
[VC-200601]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[VC-200200]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[SC-001]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[SS-200200]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[SS-200201]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[CP-200501]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[NW-013]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[NW-015]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[NW-2002001]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[SS-200602]	PCI1	X			X			
	PCI2	X			X			

	PCI3	X			X			
[DU-001]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			
[SA-001] +[ID-200305]	PCI1	X			X			
	PCI2	X			X			
	PCI3	X			X			

### 2.2.3. PCI Express Card Function Test :

Adapter Card	Position	Detection			Function			Note
		Pass	Fail	N/A	Pass	Fail	N/A	
[VC-200602]	PCIE1	X			X			
[RA-200701]	PCIE2	X			X			

### 2.3. PICMG Slot Function Test

CPU Card	Position	Install Windows XP Professional V2002 Service Pack 2			Install Drivers			Function			Note
		Pass	Fail	N/A	Pass	Fail	N/A	Pass	Fail	N/A	
FSB-960H A0.2	PICMG1	X			X			X			

### 2.4. System Full Loading Test

Test Step: 1. Insert each kind of cards in every slot on backplane

2. Run Prime 95 in Windows for 8 hours in order to make system full loading

Run Prime 95 in Windows for 8 hours										
Position	Adapter Card	Detection			Installation		Function		N/A	Note
		Pass	Fail		Pass	Fail	Pass	Fail		
PCIMG1	FSB-960H A0.2	X			X		X			
PCI1	[CP-200501]	X			X		X			
PCI2	[NW-2002001]	X			X		X			
PCI3	[SC-001]	X			X		X			
PCIE1	[RA-200701]	X			X		X			
PCIE2	[VC-200602]	X			X		X			