

# QE 【Mainboard】

## P5 Verification Test Report

Release No : 08I010001

<b>Product Model</b>	<b>FSB-868G</b>
<b>Description</b>	<b>Intel Core 2 Duo Cpu PICMG FULL-size SBC</b>
<b>Test Configuration</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : FSB-868G Rev.B1.0 <input checked="" type="checkbox"/> BIOS : FSB-868G BIOS Rev 1.0(1/28/2008)  <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> North Bridge : Intel 945G <input checked="" type="checkbox"/> South Bridge : Intel 82801FB(ICH7) <input checked="" type="checkbox"/> VGA Chipset : Integrated VGA on Intel 945G 400MHz <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 AC'97 Codec <input checked="" type="checkbox"/> Ethernet Chipset : Marvell 88E8036/88E8053 10/100/1000Mbps <input checked="" type="checkbox"/> I/O Chipset : Winbond W83627EHG <input checked="" type="checkbox"/> TV Chipset : N/A  <input checked="" type="checkbox"/> Remark : QE NPDP P5 Report for FSB-868G Rev.B1.0
<b>Test Result Summary</b>	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation  Comment: _____ _____	

*2008/02/20*

**Issue date**

*Wenyuan Yang*

**Manager**

*Philip Chen*

**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 ModelVersion	FSB-868G / REV B1.0	1,2,3,4,5,6,7,8,9
BIOS / Version	FSB-868G Rev 1.0(1/28/2008)	1,2,3,4,5,6,7,8,9
CPU Type	Intel Core 2 Duo E6600 2.66GHZ/ E4300 1.8GHZ	1,2,3,4,5,6,7,8,9
Memory Type	Kingston DDR2-667 512MB HYB18T512800BF3S	1,2,3,4,5,6,7,8,9
SATA	Seagate ST380815AS 80GB 3.5" SATA HDD	1,2,3,4,5,6,7,8,9
Primary IDE Master	SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33	1,2,3,4,5,6,7,8,9
Primary IDE Slave		N/A
CRT	Viewsonic E70 '17" CRT	1,2,3,4,5,6,7,8,9
LCD		N/A
Compact Flash		N/A
Backplane	BP-208SG-P4 REV. A. 1. 1	N/A
Riser Card		N/A
Operating System	[ ] Linux-RedHat 9.0 or [ ] Fedora Core 4.0	N/A
	Windows Server 2003 English Version / Standard Edition 5.2.3790	7
	Windows Server 2003 English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version V2002 Service Pack 2	1,2,3,4,5,6,7,8,9
	Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	N/A
	Windows XP Professional Japanese Version V2002 Service Pack 2	N/A
	Windows XP Professional English Version /Standard x64 Edition	7
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	7
	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	7
	Windows 98SE English Version V4.10.2222A	N/A
	MS-DOS 6.22 English Version	N/A
Power Supply	ATX Power :Seventeam ST-250BLV 250W	1,2,3,4,5,6,7,8,9
	AT Power	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 (UDMA)	X			
Compact Flash – Type (PIO)	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 2-422	X			
COM 2-485	X			ICP CON I-7044D D/IO Module
COM 2-Ring /+5V /+12V	X			
COM 3-232			X	
COM 4-232			X	
COM 5-232			X	
COM 6-232			X	
PS/2 Mouse & Keyboard	X			
PS/2 Mouse & Keyboard	X			
Audio Connector	X			PER-U00A
Audio 5.1 Channel / S/P DIF			X	
LPT 1	X			
LPT 2			X	
SIR / 115.2 Kbps			X	
FIR / 4M bps			X	
USB 1/2 Ports	X			
USB 3/4 Ports	X			
USB 5/6 Ports	X			
USB 7 Ports	X			
USB 2.0 1/2 Ports	X			
USB 2.0 3/4 Ports	X			
USB 2.0 5/6 Ports	X			
USB 2.0 7 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	SHARPLCDTV LC-20S5T
TV-out / AV Terminal			X	SHARPLCDTV LC-20S5T
Touch Screen – 8 Wire			X	
Touch Screen – 5 Wire			X	
DIMM Slots	X			
Watchdog IRQ n			X	
Watchdog Software Control	X			
CPU FAN Connector	X			
System FAN Connector	X			
Front Panel	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	
ATX simulates AT			X	
Audio Out Selection (W/O & W/ Amplifier)			X	
LCD Voltage Selection	X			
COM2-Ring/5V/12V Selection			X	
COM2 RS-232/422/485 Selection			X	
Clear CMOS	X			
Touch Screen Operating Mode Selection			X	
Clock Shift of TFT LCD			X	
Power Connector & Function	Result			Notes
	Pass	Fail	N/A	
ATX Power Connector	X			
ATX Power 12V Connector	X			
AT Power Connector (P8 & P9)			X	
Big 4P Power Connector			X	
Mini 4P Power Connector			X	
External Power Connector			X	
Option ATX Power Connector (PS-ON / +5VSB)	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			

PCI Connector & Function	Result			Notes
	Pass	Fail	N/A	
LAN 1G Ethernet	X			HUB:D-Link DGS-1008T
Mini PCI Slot			X	
PCI Slot	X			
PCI Express			X	NW-200503 / NW-200504

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

### Platform Information:

PCB Model / Version	FSB-868G / REV B1.0
BIOS	FSB-868G Rev 1.0(1/28/2008)
Operating System	Windows XP Professional English Version V2002 Service Pack 2
CPU	Intel Core 2 Duo E6600 2.66GHZ/ E4300 1.8GHZ
Memory	Kingston DDR2-667 512MB HYB18T512800BF3S
SATA HDD	Seagate ST380815AS 80GB 3.5" SATA HDD
Primary IDE Master	SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33
Primary IDE Slave	N/A
CRT	Viewsonic E70 '17' CRT
LCD	N/A
Compact Flash	N/A
Backplane	BP-208SG-P4 REV. A. 1. 1
Riser Card	N/A
Chipset Software	Intel Chipset Software Utility 7.2.1.1003(6/23/2005)
Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(7/19/2005)
LAN Driver	Mavell Yukon 88E8083 8.24.3.3(2/1/2005)
Audio Driver	Realtek 2.11.15.0(01/09/2008)
Touchscreen Driver	N/A
Power Supply	Seventeam ST-250BLV 250W

### 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	6118P016
Calibration Date	14, January, 2008
Next Calibration Date	14, January, 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

Model	Test Environment		ATX Power: Seventeam ST-250BLV 250W		AT Power:		Note
	CPU: E6600 2.66GHZ	CPU: E4300 1.8GHZ	CPU:	CPU:	CPU:	CPU:	
OS Environment	Windows XP	Windows XP					
Normal Mode (+5V)	4.33 A	4.30 A			A	A	
Suspend Mode (+5V)	3.40 A	2.77 A			A	A	
5VSB in Power Off Mode (just for ATX)	0.16 A	0.05 A	-----	A	-----	A	
5VSB in Power On Mode (just for ATX)	0.55 A	0.44 A	-----	A	-----	A	
Normal Mode (+12V)	4.36 A	2.79 A			A	A	
Suspend Mode (+12V)	3.21 A	0.75 A			A	A	
Normal Mode (+3.3V) (just for ATX)	0 A	0 A	-----	A	-----	A	
Suspend Mode (+3.3V) (just for ATX)	0 A	0 A	-----	A	-----	A	
Normal Mode (-12V)	0 A	0 A			A	A	
Suspend Mode (-12V)	0 A	0 A			A	A	
Normal Mode (-5V)	0 A	0 A			A	A	
Suspend Mode (-5V)	0 A	0 A			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	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	
LAN1	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100MB	X			
		D-Link DGS-1008T	100M	1Gbps	1GB	X			
		D-Link DES-1316 PoE Switch	100M	100 Mbps					X
		Intel InBusiness 8 Port	100M	100 Mbps	100MB	X			
		Accton DeskTop-3005	100M	100 Mbps					X

Location	Speed	Type	Cable Length	HUB Speed	Onboard LAN Speed	Result			
						Pass	Fail	N/A	
		SVEC FD916H (10 Mbps HUB)	100M	10 Mbps	10MB	X			
LAN2	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100MB	X			
		D-Link DGS-1008T	100M	1Gbps	1G	X			
		D-Link DES-1316 PoE Switch	100M	100 Mbps					X
		Intel InBusiness 8 Port	100M	100 Mbps	100MB	X			
		Accton DeskTop-3005	100M	100 Mbps					X
		SVEC FD916H (10 Mbps HUB)	100M	10 Mbps	10MB	X			

## 6. Hardware Compatibility

CPU Compatible Test						
Type	Clock Speed	FSB	Prime95 Version	Result		
				Pass	Fail	N/A
Intel Core 2 Duo E6600	2.66GHZ	1066MHz	V2414	X		
Intel Core 2 Duo E4300	1.8GHZ	800MHz	V2414	X		
Memory Compatibility Test						
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result		
				Pass	Fail	N/A
Kingston	NT5TU64M8BE-3C	533	V1.65	X		
Transcend	D9HNL	667	V1.65	X		
Kingston	HYB18T512800BF3S	667	V1.65	X		
DSL	E5108AGBG	667	V1.65	X		
On Board Audio Function Test						
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 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		
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	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
CHAINTECH NVIDIA GeForce4 MX440-8X		VGA Card	X		
CREATIVE Sound BLASTER Live5.1		Sound Card	X		
Takram DC-395U V1.02		SCSI Card	X		
ADAPTEC Ultra160 SCSI ASC-291602		SCSI 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	Other Card	X		
Tekram TR-822 Serial ATA 150 [SA-001] +SATA HDD Seagate ST3120026AS 120GB	Other Card	X		
<b>PCI-Express Function Test</b>				
Model	Result			
	Pass	Fail	N/A	
SksKconnect SK-9E21D 10/100/1000Base-T Adapter PCI-Express X1 LAN Card			X	
WinFast PX6200 TC TDH PCI-Express X16 VGA Card			X	
<b>HDD Compatibility Test</b>				
Model	Result			
	Pass	Fail	N/A	
Seagate ST3400620A 400GB 3.5" IDE HDD	X			
FUJITSU MPC3043AT-E 4.3.GB ATA33 3.5" IDE HDD	X			
Seagate ST3160812A 160GB 3.5" IDE HDD	X			
Western WD800BB-22jhco 80GB ATA100 3.5" IDE HDD	X			
Seagate ST31276A 1.2GB 3.5" IDE HDD	X			
Western WD800BB-55jkco 80GB ATA100 3.5" IDE HDD	X			
Maxtor2 F040L07106P1 40GB ATA133 3.5" IDE HDD	X			
<b>CD/DVD-ROM Compatibility Test</b>				
Model	Result			
	Pass	Fail	N/A	
Pioneer DVD-ROM DVD-128A 40X CD-R / 32X CD-RW / 8X DVD / 8X DVD+RW	X			
SONY DDU1632 48xCD-ROM / 16x DVD-ROM	X			
Acer DVP1640A / 16X / DVD-ROM / ATA33	X			
SONY / DVR-A11FXC1 / 48X /24X /48X/16X DVD-RW DVD-RW / 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 ATA33			X	
44 Pin Cable ATA33	X			
80 Pin Cable ATA100			X	
<b>USB Function Test</b>				
USB Basic Function Test (USB1/2 on USBRJ1 connector)	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 by HighSpeed Device: SONY USB2.0 DVD-R/W DRX-830UL		X						
USB Device Full Loading Test		Result						
Model		Pass	Fail	N/A				
Transcend Jf v30 / 2Gb		X						
Kingston DataTraveler 2Gb		X						
Transcend 512Mb		X						
Jetflash 2Gb		X						
Toshiba 2Gb		X						
Transcend Jf v30 / 2Gb		X						
Sony Corporation sm256E 256Mb		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		
ZIP 100 [Parallel]		Parallel		X				
IO-Mega zip 100 parallel port		Parallel				X		
IO-Mega zip 100MB Internal ATAPI Drive		IDE				X		
Fix / UDMA Mode		Type-I CF Card		X				
Fix / PIO Mode		Type- II CF Card		X				
Digital I/O Connector Test				Result				
				Pass	Fail	N/A		
Input Address: ( )					X			
Output Address: ( )					X			
VCC: ( )					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-3660		LAN Module				X
		AAEON PCM-5600		Modem Module				X
		AAEON PCM-3115B		PCMCIA Module				X
PC/104+		AAEON PCM-3430		SCSI Module				X

PCI-104	AAEON PCM-3730	Intel 82559 LAN Module			X
<b>On-Board RAID Function Test</b>					
Model	Interface	Result			
		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	
<b>COM Port Function Test</b>		Result			
		Pass	Fail	N/A	
COM Port Burn In Test		X			
COM Port Burn In Test		X			
<b>Disk On Module [DOM] Compatibility Test</b>					
Model	Interface	Result			
		Pass	Fail	N/A	
Transcend / TS512MDOM40V / 512MB / IDE 40 Pin	IDE 40 Pin	X			
Transcend / TS512MDOM44V / 512MB / IDE 44 Pin	IDE 44 Pin			X	
<b>Mini PCI Card Compatibility Test</b>					
Model	Interface	Result			
		Pass	Fail	N/A	
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)	Wireless LAN			X	
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	Wireless LAN			X	
PER-C200 4 Port USB 2.0 Mini PCI Card (Chip: NEC D720101GJ)	USB 2.0			X	
<b>COM/LPT Ports &amp; RS-232/422/485 Function Test</b>		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	
<b>Card Bus(PCMCIA) Compatibility Function Test</b>					
Model	Result				
	Pass	Fail	N/A		
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
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			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-Red-Hat 9.0 Kernel 2.4.20-8				X	
Fedora Core 4				X	
Windows XP Professional English Version V2002 Service Pack 2		X			
Windows XP Professional English Version /Standard x64 Edition		X			
Windows Server 2003 English Version / Standard Edition 5.2.3790		X			
Windows 2000 Professional English Version V5.00.2195 Service Pack4		X			
Windows Server 2000 English Version		X			
Windows NT Workstation 4.0 English Version Service Pack6				X	
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Linux-Red-Hat 9.0 / Kernel 2.4.20-8	Chipset Software	Default Driver			X
	Graphics Media	Default Driver			X
	LAN 1 Driver	Default Driver			X
	LAN 2 Driver	Default Driver			X
	Audio Driver	Default Driver			X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	Intel Chipset Software Utility7.2.1.1003(06/23/2005)	X		
	Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(7/19/2005)	X		
	LAN Driver	Mavell Yukon 88E80836 PCI-E Fast Ethernet 8.20.10.3(2/1/2005)	X		
	Audio Driver	Realtek AC'97AudioA4.03 (11/07/2007)	X		
Windows XP Professional English Version /Standard x64 Edition	Chipset Software	Intel Chipset Software Utility7.2.1.1003(06/23/2005)	X		
	Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(7/19/2005)	X		
	LAN Driver	Mavell Yukon 88E80836 PCI-E Fast Ethernet 8.20.10.3(2/1/2005)	X		
	Audio Driver	Realtek AC'97AudioA4.03 (11/07/2007)	X		
Windows Server 2003 English Version / Standard Edition 5.2.3790	Chipset Software	Intel Chipset Software Utility 7.2.1.1003(06/23/2005)	X		
	Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(07/19/2005)	X		



	LAN Driver	Mavell Yukon 88E80836 PCI-E Fast Ethernet 8.20.10.3(2/1/2005)	X		
	Audio Driver	Realtek AC'97AudioA4.03 (11/07/2007)	X		
Windows 2000 Professional English Version V5.00.2195 Service Pack4	Chipset Software	Intel Chipset Software Utility7.2.1.1003(06/23/2005)	X		
	Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(07/19/2005)	X		
	LAN Driver	Mavell Yukon 88E80836 PCI-E Fast Ethernet 8.20.10.3(2/1/2005)	X		
	Audio Driver	Realtek AC'97AudioA4.03 (11/07/2007)	X		
Windows Server 2000 English Version	Chipset Software	Intel Chipset Software Utility7.2.1.1003(06/23/2005)	X		
	Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(07/19/2005)	X		
	LAN Driver	Mavell Yukon 88E80836 PCI-E Fast Ethernet 8.20.10.3(2/1/2005)	X		
	Audio Driver	Realtek AC'97AudioA4.03 (11/07/2007)	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 (RPL/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		
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		

## 9. Performance Test

PCB Model / Version	FSB-868G / REV B1.0
BIOS	FSB-868G Rev 1.0(1/28/2008)
Operating System	Windows XP Professional English Version V2002 Service Pack 2
CPU	Intel Core 2 Duo E6600 2.66GHZ/ E4300 1.8GHZ
Memory	DSL DDR2-533 1GB E5108AGBG
SATA HDD	Seagate ST380815AS 80GB 3.5" SATA HDD
Primary IDE Master	Western Digital WD 1600AAJS-00PSA0 160GB 3.5" SATA-II HDD
Primary IDE Slave	N/A
CRT	Viewsonic E70 '17' CRT
LCD	N/A
Compact Flash	N/A
Backplane	208SG-P4 REV.A.1.1
Riser Card	N/A
Chipset Software	Intel Chipset Software Utility 7.2.1.1003(6/23/2005)
Graphics Media	Intel Graphics Media Accelerator Driver 6.14.10.4363(7/19/2005)
LAN Driver	Mavell Yukon 88E8083 8.24.3.3(2/1/2005)
Audio Driver	Realtek 2.11.15.0(01/09/2008)
Touchscreen Driver	N/A
Power Supply	Seventeam ST-250BLV 250W

### Test Result:

Testing Software	Result	Unit
<b>ZD WinBench 99 V2.0</b>		
Business Disk WinMark99	7990	Thousand bytes/sec
High-End Disk WinMark99	25700	Thousand bytes/sec
Business Graphics WinMark99	423	
High-End Graphics WinMark99	1070	
<b>PCMark2002</b>		
CPU	7096	
Memory	13822	
HDD	N/A	
<b>Final Reality V1.01—BenchMark Test</b>		
2D image	39.81	
3D	6.45	
Bus transfer	75.01	
Overall	26.74	Reality marks
<b>ZD 3D Winbench 2000 V1.1</b>		
3D WinMark 2000	175	Frames / sec
<b>3Dmark2001SE Pro (Demo version)</b>		
3DMark2001SE Build 330_Benchmark mode	5551	
<b>ZD Multimedia Content Creation Winstone 2004 V1.0.1 (Up Pentium III 800 MHZ CPU)</b>		
Multimedia Content Creation Winstone 2004	32.2	
<b>Business Winstone 2004 v1.0.1 (Up Pentium III 800 MHZ CPU)</b>		
Business Winstone2004	26.4	

**Test Result:**

Testing Software	Result	Unit
<b>PCMark05</b>		
PCMark	3275	PCMarks
CPU	4615	
Memory	3713	
Graphics	1066	
HDD	4427	
<b>3Dmark2003 v360</b>		
3Dmark Score	1482	
CPU Score	622	

**Remark:** Please uses below two performance software to test mainboard if the chipset is new enough.

(ex. Intel Core 2 Duo CPU)