

# QE 【Mainboard】

## P5 Verification Test Report

Release No: 08E010017

Product Model	<b>GENE-5315</b>
Description	<b>Sub Compact Board</b>
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : GENE-5315 Rev.B1.0 <input checked="" type="checkbox"/> BIOS : GENE-5315B BIOS Rev 1.0 (03/21/2008)  <input checked="" type="checkbox"/> Chipset :AMD LX series + CS5536 <input checked="" type="checkbox"/> VGA Chipset : AMD Geode LX Processors integrated graphic <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC203 2CH CODEC <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL8139DL, 10/100Mbps <input checked="" type="checkbox"/> I/O Chipset : ITE IT8712 <input checked="" type="checkbox"/> TV Chipset : N/A  <input checked="" type="checkbox"/> Remark : QE P5 Report for GENE-5315 B1.0
<b>Test Result Summary</b>	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

*2008/05/05*

**Issue date**

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**Manager**

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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
PCB Model / Version	GENE-5315 Rev.B1.0
BIOS / Version	GENE-5315B BIOS Rev 1.0 (03/21/2008)
CPU Type	AMD LX 800 Processor (500MHz)
Memory Type	Transcend DDR-333 SODIMM SDRAM 512MB (HY5DU12822CTP-043)
SATA HDD	N/A
Primary IDE Master	Seagate ST3160812A 160GB IDE HDD
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70
LCD	N/A
Compact Flash	Transcend 2GB Type-I CF for Industrial(UDMA) Transcend 4GB Type-I CF for Industrial (PIO)
Riser Card	N/A
Backplane	N/A
	Windows XP Professional English Version V2002 Service Pack 2
Power Supply	ATX Power : Seventeam / ST-300BLP /300W AT Power : N/A

## Test Result for Certification

### 1. Power On and Reset Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Power On/Off Test in DOS Mode-100V Power Function Test	10 times in Room Temperature			X
Power On/Off Test in DOS Mode-210V Power Function Test	10 times in Room Temperature			X
KB Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature			X
Hardware Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature			X

### 2. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	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 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 2-422	X		
COM 2-485	X		
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 (Internal)	X		
PS/2 Mouse & Keyboard (External)			X
Audio Connector	X		

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 7/8 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 7/8 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 – 5 Wire			X
DIMM Slots	X		
Watchdog IRQ n			X
Watchdog Software Control	X		
CPU FAN Connector			X
System FAN Connector			X
<b>Front Panel</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Power On Button	X		
IDE LED			X
External Buzzer			X
On Board Buzzer	X		
Power LED	X		
Reset Switch	X		
Keyboard Lock			X
<b>Jumpers Function</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
ATX simulates AT	X		
Audio Out Selection (W/O & W/ Amplifier)			X
LCD Power Select	X		
COM1-Ring/5V/12V Selection	X		

COM2-Ring/5V/12V Selection		X		
COM2 RS-232/422/485 Selection (Depends on BIOS)		X		
COM3-Ring/5V/12V Selection		X		
COM4-Ring/5V/12V Selection		X		
Clear CMOS		X		
Touch Screen Operating Mode Selection				X
Clock Shift of TFT LCD		X		
<b>Power Connector &amp; Function</b>	<b>Result</b>			
		Pass	Fail	N/A
5V only Power for Big 4P		X		
ATX Power Connector		X		
ATX Power_12V Connector				X
AT Power Connector				X
Big 4P Power Connector		X		
Mini 4P Power Connector				X
External Power Connector(-12/-5V)				X
Option ATX Power Connector (PS-ON / +5VSB)		X		
<b>LAN Connector &amp; Function</b>	<b>Result</b>			
		Pass	Fail	N/A
LAN Speed LED	LAN1	X		
	LAN2	X		
LAN Active LED	LAN1	X		
	LAN2	X		
LAN Link LED	LAN1	X		
	LAN2	X		
LAN 10/100 Ethernet		X		
LAN 1G Ethernet				X
<b>PCI Connector &amp; Function</b>	<b>Result</b>			
		Pass	Fail	N/A
Mini PCI Slots		X		
PCI Slots				X
PCI Express				X

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

#### Platform Information

PCB Model / Version	GENE-5315 B1.0
BIOS	GENE-5315B BIOS Rev 1.0 (03/21/2008)
Operating System	Windows XP Professional V2002 Service Pack 2
CPU	AMD LX 800 Processor (500MHz)
Memory	Kingston DDR400 SODIMM 1GB (0628SR V58C2512804SBJ5)
SATA HDD	N/A
Primary IDE Master	Seagate ST3160812A 160GB IDE HDD
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70
LCD	N/A
Compact Flash	Transcend CF Card 4GB for Industrial FIX / UDMA

Backplane	N/A
Riser Card	N/A
Chipset Software	N/A
Graphics Media	Advanced Micro Devices WinXP Graphics Driver Ver:3.0.2.0 Date:11/22/2005
LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.505.1004.2002 date:10/4/2002
Audio Driver	GeodeLX Audio Driver Ver:2.3.0.0 Date:3/17/2006
Touchscreen Driver	N/A
Power Supply	PRT PRM400 210W

Model	Test Environment	ATX Power: PRT PRM400				Note
		CPU: AMD LX800		CPU:		
OS Environment		XP Pro (S1)				
Normal Mode (+5V)		1.41	A	--	A	
Suspend Mode (+5V)		0.72	A	--	A	
5VSB in Power Off Mode (just for ATX)		0	A	--	A	
5VSB in Power On Mode (just for ATX)		0.03	A	--	A	
Normal Mode (+12V)		0.25	A	--	A	
Suspend Mode (+12V)		0.04	A	--	A	
Normal Mode (+3.3V) (just for ATX)		0	A	--	A	
Suspend Mode (+3.3V) (just for ATX)		0	A	--	A	
Normal Mode (-12V)		0	A	--	A	
Suspend Mode (-12V)		0	A	--	A	
Normal Mode (-5V)		0	A	--	A	
Suspend Mode (-5V)		0	A	--	A	

#### 4. 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

#### 5. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A

System Clock in Power On Mode	±3 second during 24 hours	X		
RTC Clock in Power On Mode	±3 second during 24 hours	X		
RTC Clock in Power Off Mode	±3 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		

## 6. 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
Onboard LAN1	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 MBps	100	X		
		D-Link DGS-1008T	100M	1GBps	100	X		
		D-Link DES-1316 PoE Switch	100M	100 MBps	100	X		
		Intel InBusiness 8 Port	100M	100 MBps	100	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		

## 7. Hardware Compatibility

CPU Compatible Test							
CPU Type		FSB	Prime95 Version	Result			
				Pass	Fail	N/A	
Onboard AMD Geode™ LX800 series processor		500MHZ	V2414	X			
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
Transcend DDR SODIMM	TS32MSD64V3F5 / V58C2256804SCT6	DDR333	256MB	V1.65	X		
EPIDA	K4H510838D-UCCC	DDR333	1GB	V1.65	X		
Kingston SODIMM	0628SR V58C2512804SBJ5	DDR400	1GB	V1.65	X		



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 B104SN02 / 10.4" / 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 / 17" / 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit				X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit				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
CECUBE GC-R9250PCI-D3 (ATI REDEON9250 256MB)	VGA Card			X
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
SC3000 CMI8738/C3DX	Sound Card			X
Takram DC-395U V1.02	SCSI 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
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	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 x16 VGA Card			X	
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X	
HDD Compatibility Test				
Model	Result			
	Pass	Fail	N/A	
Maxtor /Fireball 3 / 40GB / ATA-133	X			
Western / WD800JB / 40GB / ATA-100	X			
FUJITSU / MPE 3136AH / 13.6GB / ATA-66			X	
Seagate / ST340014A / 40GB / Barracuda 7200.7			X	
Seagate / ST3160812A / 160GB/ATA100	X			
Quantum / Fireball Plug AS / 30GB / ATA-100			X	
Seagate / ST380013A / 80GB / ATA-100	X			
Western Digital/WD400BB-75DEA0 / 40GB / ATA-100			X	
Western Digital/WD8800JD-00LSA0 / 80GB / ATA-100/SATA			X	
Model	Result			
	Pass	Fail	N/A	

TEAC CD-ROM CD-540E 40X			X
BenQ DW1655 OB2 16 x DVD ReWriter	X		
Acer DVP1640A / 16X / DVD-ROM / ATA33	X		
Pioneer / DVR-A11FXC1 / 8X DVD-RW / 6X DVD-RW / ATA66			X
Pioneer / DVD-126D / 16X / DVD-ROM / ATA66			X
Pioneer / DVD-121 / 16X / DVD-ROM / ATA66			X
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33			X
IBM HL-DT-ST / GCR 8480B-48X / CD-ROM ATA33			X
<b>IDE Cable Function test</b>			
<b>IDE Model</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
40 Pin Cable ATA100	X		
44 Pin Cable ATA33			X
80 Pin Cable ATA100			X
<b>USB Function Test</b>			
<b>USB Basic Function Test</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
USB Controller	X		
USB 2.0 Controller	X		
USB Keyboard Support	X		
USB Mouse Support	X		
<b>USB 1.1 Compatible Test</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
USB 1.1 Compatible Test	X		
<b>USB 2.0 Compatible Test</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
USB 2.0 Compatible Test	X		
<b>USB 2.0 Function Test</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Install Windows XP Professional from HighSpeed Device: USB2.0 DRW-1604P-D/WHT/G/ASUS	X		
<b>USB Device Full Loading Test</b>			
<b>Model</b>	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
BENQ 4824WI-ON2	X		
Mitsumi FLL3.5 D353GUE/FUE	X		
USB HDD 20GB	X		
USB Card Reader	X		
USB Mouse	X		
USB Thumb drive Transcend 256MB	X		
<b>Floppy Disk Controller Function Test</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>

Copy and compare file between C: and A / B:		X			
Change Floppy to None value				X	
Swap FDD				X	
<b>Peripheral Compatibility-Storage Device</b>					
Model	Interface	Result			
		Pass	Fail	N/A	
FUJITSU MCB3064SS	SCSI			X	
IOMega ZIP 100 parallel port	Parallel	X			
IOMega ZIP100MB Internal ATAPI Drive	IDE			X	
DOC				X	
Type-I CF Transcend 4GB Type-I CF for Industrial (PIO)	Fix / PIO Mode	X			
Type-I CF Transcend 2GB Type-I CF for Industrial(UDMA)	Fix / UDMA Mode	X			
<b>Digital I/O Connector Test</b>		Result			
		Pass	Fail	N/A	
Input Address: 801H		X			
Output Address: 801H		X			
VCC: (5V)		X			
DIO-1 Function Test		X			
DIO-2 Function Test		X			
<b>Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules</b>					
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
<b>On-Board SCSI Function Test</b>					
Model	Interface	Result			
		Pass	Fail	N/A	
RICOH MP7060S	SCSI-CDROM 24X			X	
Fujitsu MCB3064SS	SCSI-MO Device			X	
Seagate 32155W	SCSI-HDD 2.15GB			X	
IBM DNES-309170	SCSI-HDD 9GB			X	
Seagate ST39205LW/P	9GB / Ultra160 / LVD			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		
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		IDE 40 Pin				X
Transcend / TS512MDOM44V / 512MB		IDE 44 Pin		X		
Mini PCI Card Compatibility Test						
Model		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		
COM5				X		
COM6				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	

## 8. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result		
			Pass	Fail	N/A
[ ] Linux-RedHat 9.0 or [ X ] Fedora Core 5.0 [ ] Fedora Core 6.0			X		
Windows Server 2003 English Version / Standard Edition 5.2.3790					X

Windows Server 2003 English Version /Standard x64 Edition			X
Windows XP Professional English Version V2002 Service Pack 2	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	X		
Windows XP Professional Japanese Version V2002 Service Pack 2	X		
Windows XP Professional English Version /Standard x64 Edition			X
Windows 2000 Professional English Version V5.00.2195 Service Pack4			X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4			X
Windows 2000 Professional Japanese 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
DOS 6.22 Japanese Version			X
<b>Utility and Driver Test</b>			
OS	Result		
	Pass	Fail	N/A
Linux- Fedora Core 5.0 / Kernel 2.615-1.2054	X		
Windows Server 2003 English Version Standard Edition 5.2.3790			X
Windows Server 2003 English Version Standard x64 Edition			X
Windows XP Professional English Version V2002 Service Pack 2	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	X		
Windows XP Professional Japanese Version V2002 Service Pack 2	X		
Windows XP Professional x64 Edition English Version Service Pack 2 V2002			X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4			X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4			X
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4			X
Windows Server 2000 English Version			X
Windows 98SE English Version V4.10.2222A			X

## 9. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test	X		
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
<b>Power Management Test</b>			
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
<b>PC Health Status</b>			
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		

## 10. Performance Test

### Platform Information

PCB Model / Version	GENE-5315 B1.0
BIOS	GENE-5315B BIOS Rev 1.0 (03/21/2008)
Operating System	Windows XP Professional V2002 Service Pack 2
CPU	AMD LX 800 Processor (500MHz)
Memory	Kingston DDR400 SODIMM 1GB (0628SR V58C2512804SBJ5)
SATA HDD	N/A
Primary IDE Master	Seagate ST3160812A 160GB IDE HDD
Primary IDE Slave	ASUS DVD-E818A DVD-ROM
CRT	ViewSonic E70
LCD	N/A
Compact Flash	Transcend CF Card 4GB for Industrial FIX / UDMA
Backplane	N/A
Riser Card	N/A
Chipset Software	N/A
Graphics Media	Advanced Micro Devices WinXP Graphics Driver Ver:3.0.2.0 Date:11/22/2005
LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.505.1004.2002 date:10/4/2002
Audio Driver	GeodeLX Audio Driver Ver:2.3.0.0 Date:3/17/2006
Touchscreen Driver	N/A
Power Supply	Seventeam ST-302HLP

### Test result:

ZD WinBench 99 V2.0	Result	Unit
Business Disk WinMark99	N/A	Thousand bytes/sec
High-End Disk WinMark99	N/A	Thousand bytes/sec
Business Graphics WinMark99	N/A	

High-End Graphics WinMark99	N/A	
<b>PCMark2002</b>		
CPU	603	
Memory	1482	
HDD	768	
<b>Final Reality V1.01—BenchMark Test (Reality Marks)</b>		
2D Image	3.96	
3D	0.48	
Bus transfer	7.79	
Overall	2.62	Reality marks
<b>ZD 3D Winbench 2000 V1.1</b>		
3D WinMark 2000	N/A	Frames / sec
<b>3Dmark2001SE Pro (Demo version)</b>		
3DMark2001SE Build 330_Benchmark mode	N/A	
<b>Business Winstone 2004 v1.0.1</b>		
Business Winstone2004	N/A	