GA-5LXWL-RH
BIOS Test Report

System Model : GA-5LXWL-RH

Motherboard : 1.1A

Bios Version : F1

Release On : Oct.03 .2006

This Document has been released from:

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1. Test Configuration

System Model Name	N/A	**Product Status**	PVT
Mother Board	GA-5LXWL-RH	**M/B Revision**	1.1A
Backplane Board	N/A	**B/B Revision**	N/A
Riser Card	N/A	**Riser Card Rivision**	N/A
IPMI Board	N/A	**IPMI Board Revision**	N/A
LED Board	N/A	**LED Board Revision**	N/A
VGA	ATI FIREGL V5000		
BIOS Version	F1		
BIOS Setting	Load Optimal Default		
LAN1 EEPROM Version	(Will be provided by BIOS engineer when release BIOS)		
LAN2 EEPROM Version	(Will be provided by BIOS engineer when release BIOS)		
BMC Firmware Version	N/A		
IDE 1	GIGABYTE GO-C5200C		
IDE 2	N/A		
SATA	Intel ICH7R		
SATA HDD	Maxtor YAR51EW0 120GB		
Floppy	Panasonic JU-256A198PCR		
Key Board	GIGABYTE 104Key (PS/2)		
Mouse	GIGABYTE GM-AP (PS/2)		
Power Supply	DELTA DPS-450DB-1 A 450W		

CPU	**CPU**	INTEL1.87GHz	**Quantity**	1
	FSB	1066MHZ	**L2 Cache**	2048K
	S-Spec	QLMM		

Memory	**Size/FSB**	512MB/533MHz	**Quantity**	2
	Vendor	Micron	**Chip**	Micron
	Part Number	MT9HTF3272AY-53EB3		

Add-in Cards	**Slot**	**IRQ (DOS)**	**IRQ (Win)**	**BIOS**	**F/W**	**Driver**	**Peripherals**	**F/W**
Intel PRO/1000MT SA	2	N/A	N/A	1.2.16	N/A	9.3.39	N/A	N/A

2. Post Screen Check

Item	Description	Result	
		With IPMI	**w/o IPMI**
System Information	BIOS Version	**N/A**	**Pass**
	IPMI Firmware Version	**N/A**	**N/A**
	CPU Information	**N/A**	**Pass**
	Memory Size	**N/A**	**Pass**
	CD-ROM/HDD detect	**N/A**	**Pass**
Option ROM	LAN Option ROM check	**N/A**	**Pass**
	SATA/SCSI Option ROM check	**N/A**	**Pass**

3. Bios Quality Check

3.1 Main

Item	Check point	Result	
		With IPMI	w/o IPMI
IDE / FDD / SATA Function Check			
1	IDE HDD Detection	N/A	N/A
2	IDE CD–ROM Detection	N/A	Pass
3	FDD Detection	N/A	Pass
4	SATA HDD Detection	N/A	Pass
Advanced Processor Options			
1	CPU Status Check	N/A	Pass

3.2 Advanced

Item	Check point	Result	
		With IPMI	w/o IPMI
Memory Configuration			
1	Memory Capacity Check	N/A	Pass
2	Memory Slot Check (DIMM1 ~ DIMM4)	N/A	Pass
I/O Device Configuration			
1	Serial Port 1 Enable / Disable (Check with Mouse)	N/A	Pass
2	Serial Port 2 Enable / Disable (Check with Mouse)	N/A	N/A
3	Parallel Port Enable / Disable (Check with DeskJet 895cse)	N/A	Pass
4	PS/2 Mouse Enable / Disable	N/A	N/A
5	USB Controller Enable / Disable (Check with USB device)	N/A	Pass
6	Onboard Parallel ATA Enable / Disable	N/A	Pass
7	Onboard Serial ATA Enable / Disable	N/A	Pass
8	OnChip Host RAID ROM Enable / Disable	N/A	Pass
Hardware Monitor			
1	Temperature Monitor (according to Thermal Specification)	N/A	Pass
2	Voltage Monitor (+-10%)	N/A	Pass
3	Fan Monitor (Check Yes or No)	N/A	Pass

3.3 Security

Item	Check point	Result	
		With IPMI	w/o IPMI
1	Set Password	N/A	Pass
2	Password on Boot	N/A	Pass

3.4 Server

Item	Check point	Result	
		With IPMI	w/o IPMI
System Management			
1	BIOS Version Check	N/A	Pass
2	IPMI Firmware Version Check	N/A	N/A
Console Redirection			
1	BIOS Redirection Port Enable / Disable	N/A	N/A

Restore on AC Power Loss			
1	Restore on AC Power Loss→ Power Off (Under DOS)	N/A	Pass
2	Restore on AC Power Loss→Power On (Under DOS)	N/A	Pass
3	Restore on AC Power Loss→ Last State (Under DOS)	N/A	Pass
4	Restore on AC Power Loss→ Power Off (Under Windows)	N/A	Pass
5	Restore on AC Power Loss→Power On (Under Windows)	N/A	Pass
6	Restore on AC Power Loss→ Last State (Under Windows)	N/A	Pass
*Check the on/off status after power on/off under OS.			

3.5 Boot

Item	Check point	Result	
		With IPMI	w/o IPMI
1	Boot From FDD	N/A	Pass
2	Boot From CD-ROM	N/A	Pass
3	Boot From SATA HDD	N/A	Pass
4	Boot From Onboard LAN	N/A	Pass
5	Boot From USB FDD	N/A	Pass
6	Boot From USB CD-ROM	N/A	Pass

4. OS installation

Item	Check point	Result	
		With IPMI	w/o IPMI
1	Windows XP Professional with SP2	N/A	Pass
2	Linux RedHat EL4 update3 (the latest version of spec)	N/A	Pass

5. Stress Test Result (RedHat EL 4.0 on SATA)

Item	Description	Test Time	Result	
			With IPMI	w/o IPMI
RedHat EL 4.0	Install RedHat EL 4.0 update3 (everything)	1 hr	N/A	Pass
LAN Driver	Install LAN driver	5 min	N/A	Pass
Stress	Run CTCS TEST	2 hr	N/A	Pass

6. Stress Test Result (Windows XP on SATA)

Item	Description	Test Time	Result	
			With IPMI	w/o IPMI
Win2003	Install Windows XP Professional	1 hr	N/A	Pass
SP2	Install Service Pack 2	10 min	N/A	Pass
INF Driver	Install INF driver	5 min	N/A	Pass
LAN Driver	Install LAN driver	5 min	N/A	Pass
AUDIO Driver	Install Audio driver	5 min	N/A	Pass
VGA Driver	Install VGA driver	5 min	N/A	Pass
Stress	Run SPBest (File+Memory) and Maxpower (100% Loading)	16 hr	N/A	Pass

7. FAN Speed Check

Item	Description	Max Speed (RPM)		Result	
		With IPMI	w/o IPMI	With IPMI	w/o IPMI
FRONT FAN	Check the maximum FAN speed (high/low speed)	N/A	N/A	N/A	**Pass**
SYS FAN	Check the maximum FAN speed (high/low speed)	N/A	N/A	N/A	**Pass**
PSU FAN	Check the maximum FAN speed of Northbridge (high/low speed)	N/A	N/A	N/A	**Pass**
CPU FAN	Check the maximum FAN speed of Southbridge (high/low speed)	N/A	N/A	N/A	**Pass**
REAR FAN	Check the maximum FAN speed (high/low speed)	N/A	N/A	N/A	**Pass**
Check FAN speed can do High>Low>High>Low if it has FAN Control Function.					