GIGABYTE™ GIGA-BYTE TECHNOLOGY CO., LTD.

GA-7VCSV-RH
BIOS Regression Report

Model Name : GA-7VCSV-RH

Motherboard : GA-7VCSV-RH

PCB Revision : 2.0

Bios Version : F12

Release On : 2008/08/01

This Document has been released from:

Company : **Gigabyte Technology CO., LTD**

Review by : **Chars Chang**

FAE : **Max Ma**

BIOS : **Emma Hung**

TE : **Ricky Ding**

Approval : **Billy Chen**

1. Test Configuration

System Model Name	N/A	**Product Status**	MP
Mother Board	GA-7VCSV-RH	**M/B Revision**	2.0
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	XGI Volari Z7		
BIOS Version	F12		
BIOS Setting	Load Optimal Default		
LAN1 EEPROM Version	0002		
LAN2 EEPROM Version	0003		
BMC Firmware Version	N/A		
IDE 1	CD-ROM SAMSUNG SC-148		
IDE 2	N/A		
SATA	Intel ESB2		
SATA HDD	WD WD1000FYPS		
Floppy	N/A		
Key Board	Gigabyte 104Key (PS/2)		
Mouse	Gigabyte (PS/2)		
Power Supply	DELTA DPS 600MB		

CPU	**CPU**	Hapertown E5440 2.83GHz	**Quantity**	2
	FSB	1333MHz	**L2 Cache**	12MB
	S-Spec	Q9CU		

Memory	**Size/FSB**	2GB/667MHz	**Quantity**	4
	Vendor	Qimonda	**Chip**	
	Part Number	HYS72T256920HFA-3S-B		

Add-in Cards	**Slot**	**IRQ (DOS)**	**IRQ (Win)**	**BIOS**	**F/W**	**Driver**	**Peripherals**	**F/W**

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**

GIGABYTE™ GIGA-BYTE TECHNOLOGY CO., LTD.

3. Bios Quality Check

Channel SPEC function check

Item	Description	Result	
		With IPMI	w/o IPMI
System Information	Check BIOS Version at BIOS setup menu	N/A	PASS
	Check BIOS version at DMI type 00	N/A	PASS
	Check SVID(1458) for all onboard devices	N/A	PASS
SMBIOS information	Check system information at SMBIOS type 01	N/A	PASS
	Check board information at SMBIOS type 02	N/A	PASS
	Check chassis information at SMBIOS type 03	N/A	PASS
SLP 1.0 support	Check SLP1.0 string information	N/A	N/A
SLP 2.0 support	Check SLP2.0 string information	N/A	N/A

3.2 Main

Item	Check point	Result	
		With IPMI	w/o IPMI
IDE / FDD / SATA Function Check			
1	IDE HDD Detection	N/A	PASS
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

3.3 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
PCI Configuration			
1	Onboard Video Controller Enable / Disable	N/A	N/A
2	Onboard LAN Enable / Disable	N/A	PASS
3	Onboard LAN Option ROM Enable / Disable	N/A	PASS
4	PCI Slot Option ROM Enable / Disable (Check LAN card)	N/A	PASS
5	PCI-X Slot Option ROM Enable / Disable (Check LAN card)	N/A	PASS
6	PCI-E Slot Option ROM Enable / Disable (Check LAN card)	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	PASS
3	Parallel Port Enable / Disable (Check with Loopback)	N/A	N/A
4	PS/2 Mouse Enable / Disable	N/A	PASS
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	Southbridge RAID ROM Enable / Disable (Check if the project use correct Option ROM)	N/A	PASS

		With IPMI	w/o IPMI
9	OnChip Host RAID ROM Enable / Disable	N/A	N/A
Advanced Chipset Control			
1	IRQ Routing Check under Windows2003 (Check LAN card)	N/A	PASS
2	Wake on RING Enable / Disable (Check Serial Modem)	N/A	PASS
Hardware Monitor			
1	Temperature Monitor (according to Thermal Specification)	N/A	N/A
2	Voltage Monitor (+-10%)	N/A	PASS
3	Fan Monitor (Check Yes or No)	N/A	PASS

3.4 Security

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

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

3.6 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 PATA HDD	N/A	PASS
5	Boot From Onboard LAN	N/A	PASS
6	Boot From USB FDD	N/A	PASS
7	Boot From USB CD-ROM	N/A	PASS

4. OS installation

Item	Check point	Result	
		With IPMI	w/o IPMI

1	Windows 2003 Enterprise Server with SP2	**N/A**	**PASS**
2	Linux RedHat EL4 update6 (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 update6 (everything)	1 hr	**N/A**	**PASS**
LAN Driver	Install LAN driver	5 min	**N/A**	**PASS**
Stress	Run BurnIn Test v5.3	1 hr	**N/A**	**PASS**

6. Stress Test Result (Windows 2003 on SATA)

Item	Description	Test Time	Result	
			With IPMI	**w/o IPMI**
Win2003	Install Windows 2003 Enterprise Server	1 hr	**N/A**	**PASS**
SP2	Install Service Pack 2	10 min	**N/A**	**PASS**
INF Driver	Install INF driver	2 min	**N/A**	**PASS**
LAN Driver	Install LAN driver	2 min	**N/A**	**PASS**
VGA Driver	Install VGA driver	2 min	**N/A**	**PASS**
Stress	Run SPBest (File+Memory) and Maxpower (100% Loading)	8 hr	**N/A**	**PASS**

7. FAN Speed Check

Item	Description	Max Speed (RPM)		Result	
		With IPMI	**w/o IPMI**	**With IPMI**	**w/o IPMI**
CPU FAN1	Check the maximum FAN speed (high/low speed)	**N/A**	4440	**N/A**	**PASS**
CPU FAN2	Check the maximum FAN speed (high/low speed)	**N/A**	4440	**N/A**	**PASS**
SYS FAN1	Check the maximum FAN speed (high/low speed)	**N/A**	4560	**N/A**	**PASS**
SYS FAN2	Check the maximum FAN speed (high/low speed)	**N/A**	4687	**N/A**	**PASS**
SYS FAN3	Check the maximum FAN speed (high/low speed)	**N/A**	4440	**N/A**	**PASS**
SYS FAN4	Check the maximum FAN speed (high/low speed)	**N/A**	4560	**N/A**	**PASS**
Check FAN speed can do High>Low>High>Low if it has FAN Control Function.					

8. Issue fixed in this version

No.	Description	Result	
		With IPMI	**w/o IPMI**
1	Fixed If set onboard SATA to RAID mode, boot order is LAN then RAID volume, system will be stopped after trying boot from LAN.	**N/A**	**PASS**
2	Hidden Software mini BMC function under setup menu.	**N/A**	**PASS**
3	Fixed Onboard RAID default become "LSI RAID", should be "Intel RAID".	**N/A**	**PASS**
4	Support the beep sound when MRC error happen.	**N/A**	**PASS**
5	SLP 2.0 module support.	**N/A**	**PASS**
6	Enable HPET Table.	**N/A**	**PASS**
7	Support WHEA function.	**N/A**	**PASS**

9. Known issue

No.	Description	Result	
		With IPMI	**w/o IPMI**
1	Support SMBIOS 2.5 for WHEA.	**N/A**	**FAIL**
2	Support CMOS default change utility.	**N/A**	**FAIL**