

GA-7TCSV2

IPMI Regression Report

Customer / Model : Channel / GA-7TCSV2
Project Name : GA-7TCSV2
Model Name : GA-7TCSV2
M/B Version : 1.0B
IPMI Version : 1.05
Bios Version : F9(0xBCDA)
Release On : 2010/4/14

This Document has been released from:

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JUDGEMENT: **PASS**

Configuration

Configuration 1	No.	Item	Description	Remark
	1	CPU	Intel Westmere Q4EP X5670 (B1 Stepp	X5670 x 2
	2	RAM	Qimonda IMSH4GP12A1F1C-10F P2 4	4G x 6
	3	HDD	Western Digital WD2002FYPS-01U1B1	2TB x 1
	4			
	5			
	6			
	7			

Configuration 2	No.	Item	Description	Remark
	1	CPU	Intel Nehalem Q1G6 X5570 (D0 Steppi	X5570 x 2
	2	RAM	Kingston KVR1066D3S8R7S 1G	1G x 6
	3	HDD	Western Digital WD2002FYPS-01U1B1	2TB x 1
	4			
	5			
	6			
	7			

Configuration 3	No.	Item	Description	Remark
	1			
	2			
	3			
	4			
	5			
	6			
	7			

Configuration 4	No.	Item	Description	Remark
	1			
	2			
	3			
	4			
	5			
	6			
	7			

IPMI function														
			Status	%	Th	Eh	#							
			Required Tests	100	30.5	20	40							
			Passed Tests	100	30.5	20	40							
			Failed Prio 1 Tests	0	0	0	0							
			Failed Prio 2 Tests	0	0	0	0							
			Missing Tests	0	0	0	0							
Note: Don't delete or insert rows between 1-8!														
No.	Test Item	Procedure	Criteria	Required	Test Tool	Test Stage	Test Effort (h)	Engineer Effort (h)	Test Engineer	Result	System Board (Rev.)	BIOS /FW	Remarks	Test Config Sheet
1	Basic Function													
1-1	Selftest	1. Check IPMI selftest command by "kcs 18 04". 2. Read command response.	The result must be "55 00". It means No error, All Self Tests Passed.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-2	FRU	1. Check FRU information. (by IPMITOOL) 2. Confirm FRU with SPEC.	1. The information should match specification. 2. There is no strange character in FRU	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-3	SOL	1. Enable Console Redirection function under BIOS. 2. Set the same Flow Control/DTR/Bit Rate on BIOS Setup and BMC. 3. Use SOL tool to connect the system from client. (GSOL or IPMITOOL) 4. Check the screen of POST/BIOS Setup on client	1. The SOL screen should be displayed correctly. 2. There is no strange character in SOL screen. 3. There is no error message when testing.	y		MP	1	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-4	Sensor Reading	1. Power on system. 2. Boot into DOS. 3. Execute SENSEL. 4. Check sensor information.	1. All the sensors can be read by SENSEL. 2. There is no strange character in SENSEL screen. 3. There is no error message when testing.	y		MP	1	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-5	Event Log	1. Power on system. 2. Boot into DOS. 3. Execute SENSEL. 4. Issue an event such as FAN Lower Critical Assertion. 5. Check SEL information.	1. The SEL can be read by SENSEL. 2. There is no strange character in SENSEL screen. 3. There is no error message when testing.	y		MP	1	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-6	Alert	1. Power on system. 2. Boot into DOS. 3. Execute SENSEL. 4. Issue an event such as FAN Lower Critical Assertion. 5. Issue an event from Lower Critical Assertion to Deassertion. 6. Check SEL information.	1. The Assertion and Deassertion event logs can be read by SENSEL. 2. There is no strange character in SENSEL screen. 3. There is no error message when testing.	y		MP	2	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-7	Power on	1. connect the system from remote client via LAN. 2. Use tool to generate ipmi command from remote. (IPMITOOL, IPMIUTIL) 3. Use chassis command to issue power on from remote client. (kcs 00 02 01)	1. The system can be powered on by IPMI command from remote client. 2. There is no error message when testing.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-8	Power off	1. Power on the system. 2. Boot into DOS. 3. Force the system into soft off state by IPMI command "kcs 00 02 00". 4. Boot into Windows. 5. Force the system into soft off state by IPMI command "kcs 00 02 00".	1. The system can be powered off by IPMI command under DOS. 2. The system will do stofware shutdown by IPMI command unde Windows. 3. There is no error message when testing.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-9	Reset	1. Power on the system. 2. Boot into DOS. 3. Execute IPMI command "kcs 00 02 03".	1. The system will do reset after issue command. 2. There is no error message when testing.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-10	Power Cycle	1. Power on the system. 2. Boot into DOS. 3. Execute IPMI command "kcs 00 02 02".	1. The system will do power cycle after issue command. 2. There is no error message when testing.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-11	NMI	1. Boot into Windows 2003. 2. Edit NMICrashDump in by regedit. 3. Press NMI button. 4. Restart the system 5. Check SEL by SENSEL under DOS.	1. System will record NMI event log by press NMI button or use IPMI command to issue software NMI. 2. When NMI happened under Windows 2003, it will show blue screen and dump	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-12	Sensor/SEL tool	1. Power on system. 2. Boot into DOS. 3. Execute SENSEL. 4. Check SENSEL screen.	1. SENSEL works. 2. All the sensors can be detected correctly without error. 3. It can read SEL by SENSEL without	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-13	Command Tool	1. Power on system. 2. Boot into DOS. 3. Execute command tool "KCS" to send IPMI command to BMC. (kcs 18 04)	1. KCS command works. (return 55 00 or some error code) 2. There is no error message happened when using KCS command.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-14	DHCP detect	1. Power on system. 2. Boot into DOS. 3. Execute command tool setting IP address source to DHCP. 4. Restart the system. 5. Execute RMCPPING to ping IP address of the system from remote client.	1. BMC can get IP from DHCP server when set address source to DHCP. 2. Remote client can ping the system successfully by RMCPPING.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-15	Static IP Setting	1. Power on system. 2. Boot into DOS. 3. Execute command tool setting IP address source to Static. 4. Set Static IP by IPMI command. 5. Execute RMCPPING to ping IP address of the system from remote client.	1. BMC can set Static IP when set address source to static. 2. Remote client can ping the system successfully by RMCPPING.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-16	Boot into Linux image via PXE server	1. Prepare a PXE server provided Linux image with DHCP service. 2. Connect system to the PXE server via switch 3. Set BMC to DHCP. 4. Set Onboard LAN to the first boot device. 5. Remote install Linux by PXE via LAN	1. System can remote install Linux via LAN port by both DHCP and Static IP. 2. There is no error message happened when testing.	y		MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
1-17	Power Cycle Stress	1. Power on system. 2. Boot into DOS. 3. Clear SEL by SENSEL. 4. Modify autobexec.bat to execute boot counter and power cycle command automatically. 5. Restart the system and boot into DOS automatically. 6. Check boot count and SEL after 8	1. There should be no error event log in SEL. 2. System should work normally after stress 8 hours.	y		MP	8	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
2	Hardware Monitor												2. System should work normally	

CPU0 temp	SENSEL 2. Check sensor status in SENSEL 3. Record all the value on "REMARK".	2. All the sensors status should be normal. (no critical/non-critical)	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
CPU0 DDR3 Temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
CPU1 DDR3 Temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
ICH10 Temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_VCCP0			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_VCCP1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P1V5_DDR3_CPU0			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P1V5_DDR3_CPU1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_1V8_IOH			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P12V_ATX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P5V			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P3V3			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_5V_AUX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_3V3_AUX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_1V8_AUX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
P_1V2_AUX_BMC			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
CPU_FAN0			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
CPU_FAN1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
SYS_FAN1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
SYS_FAN2			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2
SYS_FAN3	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2		
SYS_FAN4	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00021	Configuration 2		
2-2 Westmere CPU												
CPU0 temp	1. Check all the value of sensors in SENSEL 2. Check sensor status in SENSEL 3. Record all the value on "REMARK".	1. All the sensors should under spec. 2. All the sensors status should be normal. (no critical/non-critical)	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
CPU1 temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
CPU0 DDR3 Temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
CPU1 DDR3 Temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
ICH10 Temp			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_VCCP0			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_VCCP1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P1V5_DDR3_CPU0			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P1V5_DDR3_CPU1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_1V8_IOH			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P12V_ATX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P5V			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P3V3			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_5V_AUX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_3V3_AUX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_1V8_AUX			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
P_1V2_AUX_BMC			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
CPU_FAN0			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
CPU_FAN1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
SYS_FAN1			Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1
SYS_FAN2	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1		
SYS_FAN3	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1		
SYS_FAN4	Y	MP	0.5	0.5	Rege	p	1.0B	F9 / 1.05	509902 00024	Configuration 1		
Don't write "Test Items" under this line!!!												

Issue Confirm

[illegible]

20. History

[illegible]