AVL Supermicro server platform Memory Module Qualification Test

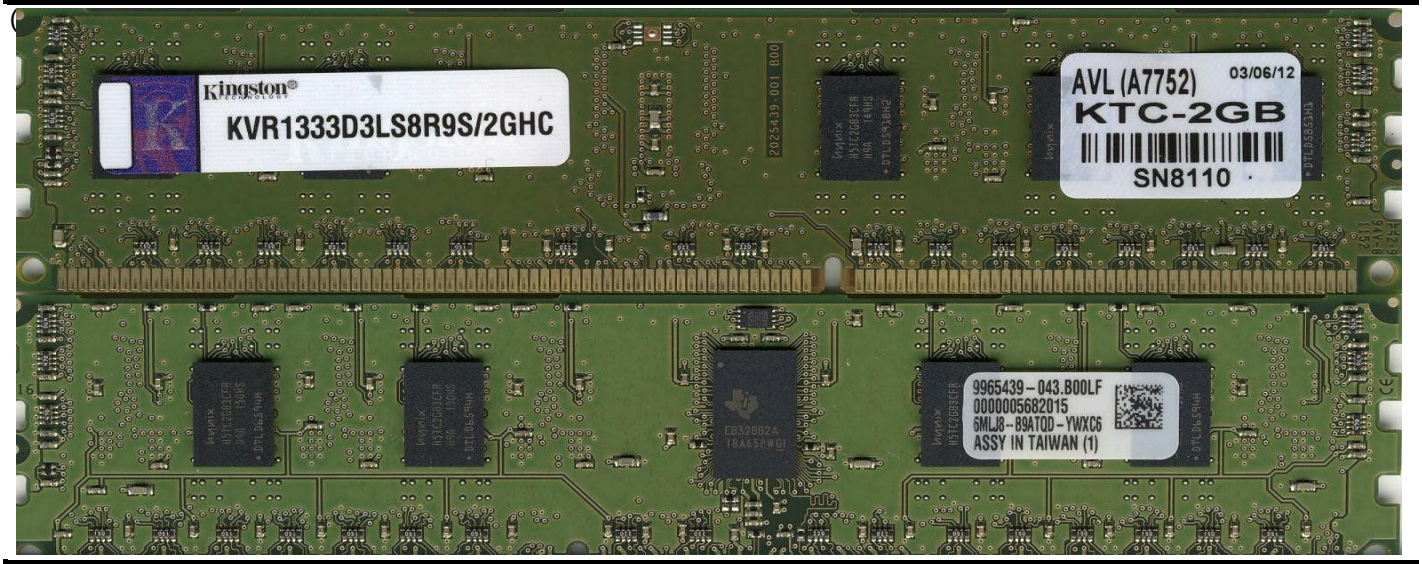
Intel X5650(WSM) x 2, Intel 5520 (Tylersburg), Rev B3	Test Results	Pass

PN: KVR1333D3LS8R9S/2GHC (2GB / RDIMM / ECC) On: X8DT6-F Rev.1.3

Module Information

RP77D3x-106-KI-SQ-SMC-V1 — Rev 01/07/2011

AVL WorkOrder #	WC3188	AVL A#	7752
Start Date	5/4/2012	End Date	5/9/2012
Tested By		Andy C.	
Module Manufacturer		Kingston	
Module Part Number		KVR1333D3LS8R9S/2GHC	
Module BOM Number		9965439-043.B00LF	
Module Capacity / Memory Type / ECC		2GB / RDIMM / ECC	
Module Configuration (Width, # of devices, # of Ranks)		256Mx72 /9 Devices / 1 Rank	
Speed Tested (Data rate of Mbps, CL-tRP-tRCD)		DDR3L-1333 /9-9-9	
DRAM Device Vendor		Hynix	
DRAM Device Part Number / Date code		H5TC2G83CFR-H9A	1149
DRAM Die Revision / Process Technology (nm)			
DRAM Device Config (Density / Width)		2Gbit / x8 / 256Mx8bit	
Thermal Sensor Device Vendor / Part Number / Revision			
Register Device Vendor / Part Number / Revision		TI EB32882A	



Platform System Information

Motherboard Info (Model# & MB Revision & MB S/N & AVL S/N)	X8DT6-F	1.3	VMAS59161	SK4375
BISO Revision / BIOS Date / MRC Rev.	2.0b	8/30/2011	2.11	
CPU / Speed	Intel X5650(WSM) x 2		2.66GHz	
Chipset info (Stepping)	Intel 5520 (Tylersburg), Rev B3			

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Test Results:	PASS
Commetnts:	

AVL Memory Module Qual Test Results Summary

Test # and name	Test Description	Specs	Test Results	Comments
1. Latest BIOS Upgrade & Configuration	Download / Upgrade latest BIOS & record size and speed detection	Per test platform, DIMM & config spec	**Done**	Record memory size & speed at each test only
2. SPD Check	Memory module SPD content check for JEDEC compliance	JEDEC	**Pass**	Use proprietary tools
3. Sisoftware Sandra Benchmark	Run Windows based diags & utility software @50°C - DIMM max loading. Test run under 1.35v	1 loop per config	**Done**	Force 1066 in BIOS
4. Passmark Burn-In		6 Hour per config	**Pass**	Force 1066 in BIOS
5a. Stress Application Test	Run Linux based diags & utility software @50°C - DIMM max loading. Test run under 1.35v	8 Hour per config	**Pass**	Force 1066 in BIOS
5b. Stream Benchmark Test		5 loop per config	**Done**	Force 1066 in BIOS
5c. Reset Cycle		500 loop per config	**Pass**	Force 1066 in BIOS
6. Functional Stress Test (Corner 1)	Run RST Premium @50°C - 1 DIMM Per Ch Test run under 1.35v 1333	8 Hour or 2+ Loops per config	**N/A**	Run @ Max module speed
7. Functional Stress Test (Corner 2)	Run RST Premium @50°C - 2 DIMM Per Ch Test run under 1.5v	8 Hour or 2+ Loops per config	**Pass**	Full Load
8. Functional Stress Test (Corner 3)	Run RST Premium @0°C1 DIMM Per Ch Test run under 1.35v 1333	8 Hour or 2+ Loops per config	**N/A**	Run @ Max module speed

Note: All test under IMC Vdd=Nom, Vref=Vddnom/2