AVL Supermicro server platform Memory Module Qualification Test

AVL ADVANCED VALIDATION LABS, INC.	Intel X5650(WSM) x 2, Intel 5520 (Tylersburg), Rev B3	Test Results	**Pass**
	PN: KVR1333D3E9S/8GHM (8GB / UDIMM ECC / ECC) On: X8DT6-F Rev.1.3		

RP77D3x-106-KI-SQ-SMC-V1	**Module Information**		Rev 01/07/2011
AVL WorkOrder #	WC3321	AVL A#	7816
Start Date	4/26/2012	End Date	5/1/2012
Tested By		Andy C.	
Module Manufacturer		Kingston	
Module Part Number		KVR1333D3E9S/8GHM	
Module BOM Number		9965525-026.A00LF	
Module Capacity / Memory Type / ECC		8GB / UDIMM ECC / ECC	
Module Configuration (Width, # of devices, # of Ranks)		1Gx72 /18 Devices / 2 Ranks	
Speed Tested (Data rate of Mbps, CL-tRP-tRCD)		DDR3-1333 /9-9-9	
DRAM Device Vendor		Hynix	
DRAM Device Part Number / Date code		H5TC4G83MFR-H9A 1209	
DRAM Die Revision / Process Technology (nm)			
DRAM Device Config (Density / Width)		4Gbit / x8 / 512Mx8bit	
Thermal Sensor Device Vendor / Part Number / Revision			
Register Device Vendor / Part Number / Revision			

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.	1 loop per config	**Done**	Full load per spec
4. Passmark Burn-In	Run Windows based diags & utility software @50°C - DIMM max loading.	6 Hour per config	**Pass**	Full load per spec
5a. Stress Application Test	Run Linux based diags & utility software @50°C - DIMM max loading.	8 Hour per config	**Pass**	Full load per spec
5b. Stream Benchmark Test	Run Linux based diags & utility software @50°C - DIMM max loading.	5 loop per config	**Done**	Full load per spec
5c. Reset Cycle	Run Linux based diags & utility software @50°C - DIMM max loading.	500 loop per config	**Pass**	Full load per spec
6a. Functional Stress Test (Corner 1a)	Run RST Premium @50°C - DIMM max loading.	8 Hour or 2+ Loops per config	**Pass**	Full load per spec
6b. Functional Stress Test (Corner 1b)*	Run RST Premium @55°C - DIMM loading depends on @speed configuration	8 Hour or 2+ Loops per config	**N/A**	Per platform memory speed configuration table if different (run @Max module speed)
7. Functional Stress Test (Corner 2)	Run RST Premium @0°C DIMM max loading	8 Hour or 2+ Loops per config	**N/A**	Full load per spec

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

* Corner 1b test is not required if Corner 1A already covers max module speed.