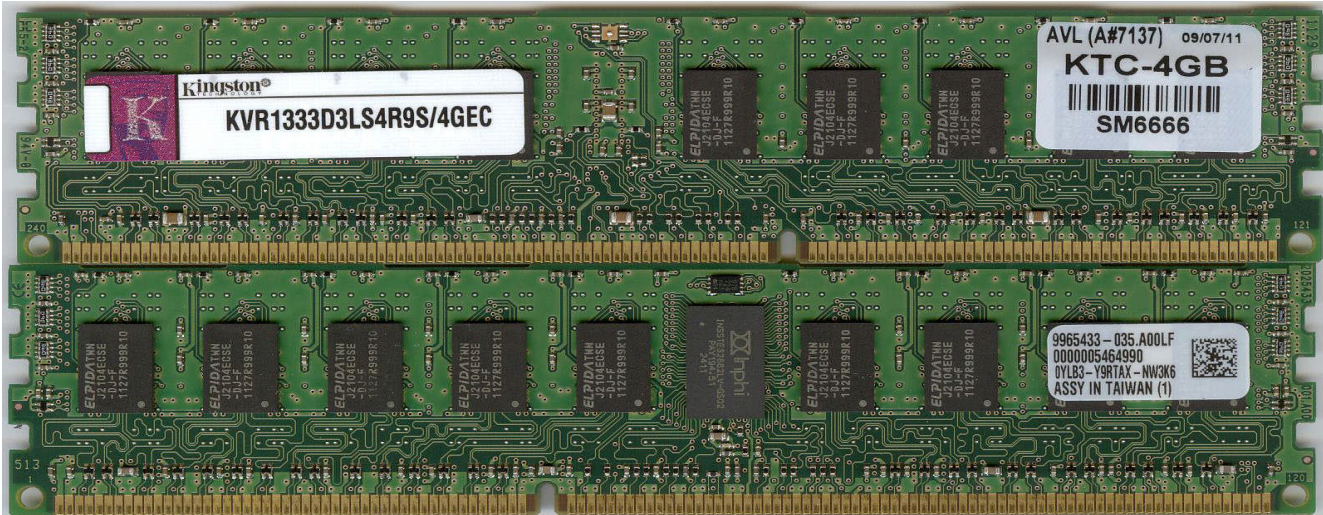

	AVL Supermicro server platform Memory Module Qualification Test		
	AMD Opteron 6128 x2, AMD SR5690 CIMx 1.0.1.0	Test Results	Pass
	PN: KVR1333D3LS4R9S/4GEC (4GB / RDIMM / ECC) On: H8DGI-F Rev.1.00		

RP77D3x-106-KI-SQ-SMC-V1		Module Information		Rev 01/07/2011
AVL WorkOrder #	WC1746	AVL A#	7137	
Start Date	9/30/2011	End Date	10/7/2011	
Tested By	Andy C.			
Module Manufacturer	Kingston			
Module Part Number	KVR1333D3LS4R9S/4GEC			
Module BOM Number	9965433-035.A00LF			
Module Capacity / Memory Type / ECC	4GB / RDIMM / ECC			
Module Configuration (Width, # of devices, # of Ranks)	512Mx72 /18 Devices / 1 Rank			
Speed Tested (Data rate of Mbps, CL-tRP-tRCD)	DDR3L-1333 /9-9-9			
DRAM Device Vendor	Elpida			
DRAM Device Part Number / Date code	EDJ2104ECSE-DJ-F	1127		
DRAM Die Revision / Process Technology (nm)				
DRAM Device Config (Density / Width)	2Gbit	/ x4	/ 512Mx4bit	
Thermal Sensor Device Vendor / Part Number / Revision				
Register Device Vendor / Part Number / Revision	Inphi	INSSTE32882	LV-GS02	



Platform System Information				
Motherboard Info (Model# & MB Revision & MB S/N & AVL S/N)	H8DGI-F	1.00	2M0CS7017	SL2664
BISO Revision / BIOS Date / MRC Rev.	1.0b	3/23/2011	N/A	
CPU / Speed	AMD Opteron 6128 x2		2.0GHz	
Chipset info (Stepping)	AMD SR5690 CIMx 1.0.1.0			

	AVL Supermicro server platform Memory Module Qualification Test
	AMD Opteron 6128 x2, AMD SR5690 CIMx 1.0.1.0
	PN: KVR1333D3LS4R9S/4GEC (4GB / RDIMM / ECC) On: H8DGI-F Rev.1.00

Test Results:	PASS
<i>Comments:</i>	

AVL Memory Module Qual Test Results Summary

Test # and name	Test Description	Specs	Test	Comments
			Results	
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 @55°C - DIMM max loading. Test run under 1.35v	1 loop per config	Done	Force 1066 in BIOS
4. Passmark Burn-In		12 Hour per config	Pass	Force 1066 in BIOS
5a. Stress Application Test	Run Linux based diags & utility software @55°C - DIMM max loading. Test run under 1.35v	12 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 @55°C - 1 DIMM Per Ch Test run under 1.35v 1333	8 Hour or 2+ Loops per config	Pass	Run @ Max module speed
7. Functional Stress Test (Corner 2)	Run RST Premium @55°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°C 1 DIMM Per Ch Test run under 1.35v 1333	8 Hour or 2+ Loops per config	Pass	Run @ Max module speed

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