

	AVL Supermicro server platform Memory Module Qualification Test		
	AMD Opteron 6128 x2, AMD SR5690 CIMx 1.0.1.0	Test Results	Pass
	PN: KVR1333D3D8R9S/4GHB (4GB /RDIMM / ECC) On: H8DGI-F Rev.1.00		

RP77D3x-106-KI-SQ-SMC-V1		Module Information		Rev 01/07/2011
AVL WorkOrder #	W9151	AVL A#	6516	
Start Date	4/3/2011	End Date	4/19/2011	
Tested By	Mike H.			
Module Manufacturer	Kingston			
Module Part Number	KVR1333D3D8R9S/4GHB			
Module BOM Number	9965426-037.A00LF			
Module Capacity / Memory Type / ECC	4GB /RDIMM / ECC			
Module Configuration (Width, # of devices, # of Ranks)	512Mx72 /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	H5TQ2G83BFR-H9C		1049	
DRAM Die Revision / Process Technology (nm)	B			
DRAM Device Config (Density / Width)	2Gbit / x8		/ 256Mx8bit	
Thermal Sensor Device Vendor / Part Number / Revision				
Register Device Vendor / Part Number / Revision	TI	TE32882E-G1		

(Module image)



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.	1.1a	12/10/2010	0	
CPU / Speed	AMD Opteron 6128 x2		2.0GHz	
Chipset info (Stepping)	AMD SR5690 CIMx 1.0.1.0			

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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.	1 loop per config	Done	Full load per spec
4. Passmark Burn-In		12 Hour per config	Pass	Full load per spec
5a. Stress Application Test	Run Linux based diags & utility software @55°C - DIMM max loading.	12 Hour per config	Pass	Full load per spec
5b. Stream Benchmark Test		5 loop per config	Done	Full load per spec
5c. Reset Cycle		500 loop per config	Pass	Full load per spec
6a. Functional Stress Test (Corner 1a)	Run RST Premium @55°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	Pass	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.