
	<b>AVL Supermicro server platform Memory Module Qualification Test</b>		
	<b>AMD Opteron 6128 x1, AMD SR5690 CIMx 1.0.1.0</b>	<b>Test Results</b>	<b>Pass</b>
	<b>PN: KVR1333D3D8R9S/4GHB (4GB /RDIMM / ECC ) On: H8SGL-F Rev.1.00</b>		

RP77D3x-106-KI-SQ-SMC-V1		Module Information		Rev 01/07/2011
AVL WorkOrder #	WB9152	AVL A#	6516	
Start Date	3/26/2011	End Date	4/11/2011	
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 44			
DRAM Device Config (Density / Width)	2Gbit / x8		/ 256Mx8bit	
Thermal Sensor Device Vendor / Part Number / Revision	NXP			
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)	H8SGL-F	1.00	OM12S7013	SL2697
BISO Revision / BIOS Date / MRC Rev.	1.0a	12/10/2010	0	
CPU / Speed	AMD Opteron 6128 x1		2.0GHz	
Chipset info (Stepping)	AMD SR5690 CIMx 1.0.1.0			

	<b>AVL Supermicro server platform Memory Module Qualification Test</b>
	<b>AMD Opteron 6128 x1, AMD SR5690 CIMx 1.0.1.0</b> <b>PN: KVR1333D3D8R9S/4GHB (4GB /RDIMM / ECC ) On: H8SGL-F Rev.1.00</b>

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

### AVL Memory Module Qual Test Results Summary

Test # and name	Test Description	Specs	Test	Comments
			Results	
<b>1. Latest BIOS Upgrade &amp; Configuration</b>	Download / Upgrade latest BIOS & record size and speed detection	Per test platform, DIMM & config spec	<b>Done</b>	Record memory size & speed at each test only
<b>2. SPD Check</b>	Memory module SPD content check for JEDEC compliance	JEDEC	<b>Pass</b>	Use proprietary tools
<b>3. Sisoftware Sandra Benchmark</b>	Run Windows based diags & utility software @55°C - DIMM max loading.	1 loop per config	<b>Done</b>	Full load per spec
<b>4. Passmark Burn-In</b>		12 Hour per config	<b>Pass</b>	Full load per spec
<b>5a. Stress Application Test</b>	Run Linux based diags & utility software @55°C - DIMM max loading.	12 Hour per config	<b>Pass</b>	Full load per spec
<b>5b. Stream Benchmark Test</b>		5 loop per config	<b>Done</b>	Full load per spec
<b>5c. Reset Cycle</b>		500 loop per config	<b>Pass</b>	Full load per spec
<b>6a. Functional Stress Test (Corner 1a)</b>	Run RST Premium @55°C - DIMM max loading.	8 Hour or 2+ Loops per config	<b>Pass</b>	Full load per spec
<b>6b. Functional Stress Test (Corner 1b)*</b>	Run RST Premium @55°C - DIMM loading depends on @speed configuration	8 Hour or 2+ Loops per config	<b>N/A</b>	Per platform memory speed configuration table if different (run @Max module speed)
<b>7. Functional Stress Test (Corner 2)</b>	Run RST Premium @0°C DIMM max loading	8 Hour or 2+ Loops per config	<b>Pass</b>	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.