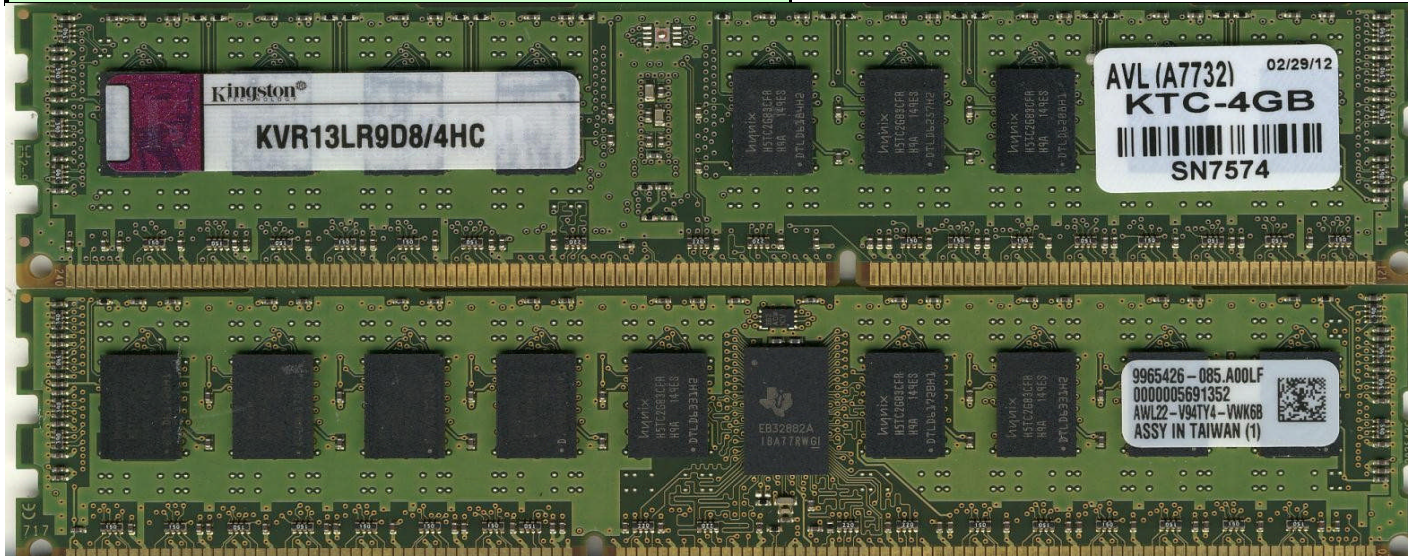
	<b>AVL Supermicro server platform Memory Module Qualification Test</b>		
	<b>AMD Opteron 6128 x1, AMD SR5690 CIMx 1.0.1.0</b>	<b>Test Results</b>	<b>Pass</b>
	<b>PN: KVR13LR9D8/4HC (4GB / RDIMM / ECC) On: H8SGL-F Rev.1.00</b>		

RP77D3x-106-KI-SQ-SMC-V1		Module Information		Rev 01/07/2011
AVL WorkOrder #	WC3059	AVL A#	7732	
Start Date	6/7/2012	End Date	6/11/2012	
Tested By	Van N.			
Module Manufacturer	Kingston			
Module Part Number	KVR13LR9D8/4HC			
Module BOM Number	9965426-085.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)	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	STMicro			
Register Device Vendor / Part Number / Revision	TI	EB32882A	V 5.0	



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.	2.0a	11/11/2011	N/A	
CPU / Speed	AMD Opteron 6128 x1		2.0GHz	
Chipset info (Stepping)	AMD SR5690 CIMx 1.0.1.0			



## AVL Supermicro server platform Memory Module Qualification Test

AMD Opteron 6128 x1, AMD SR5690 CIMx 1.0.1.0

PN: KVR13LR9D8/4HC (4GB / RDIMM / ECC ) On: H8SGL-F Rev.1.00

**Test Results:**

**PASS**

*Comments:*

### AVL Memory Module Qual Test Results Summary

Test # and name	Test Description	Specs	Test Results	Comments
<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 @50°C - DIMM max loading. Test run under 1.35v	1 loop per config	<b>Done</b>	Force 1066 in BIOS
<b>4. Passmark Burn-In</b>		6 Hour per config	<b>Pass</b>	Force 1066 in BIOS
<b>5a. Stress Application Test</b>	Run Linux based diags & utility software @50°C - DIMM max loading. Test run under 1.35v	8 Hour per config	<b>Pass</b>	Force 1066 in BIOS
<b>5b. Stream Benchmark Test</b>		5 loop per config	<b>Done</b>	Force 1066 in BIOS
<b>5c. Reset Cycle</b>		500 loop per config	<b>Pass</b>	Force 1066 in BIOS
<b>6. Functional Stress Test (Corner 1)</b>	Run RST Premium @50°C - 1 DIMM Per Ch Test run under 1.35v 1333	8 Hour or 2+ Loops per config	<b>N/A</b>	Run @ Max module speed
<b>7. Functional Stress Test (Corner 2)</b>	Run RST Premium @50°C - 2 DIMM Per Ch Test run under 1.5v	8 Hour or 2+ Loops per config	<b>Pass</b>	Full Load
<b>8. Functional Stress Test (Corner 3)</b>	Run RST Premium @0°C1 DIMM Per Ch Test run under 1.35v 1333	8 Hour or 2+ Loops per config	<b>N/A</b>	Run @ Max module speed

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