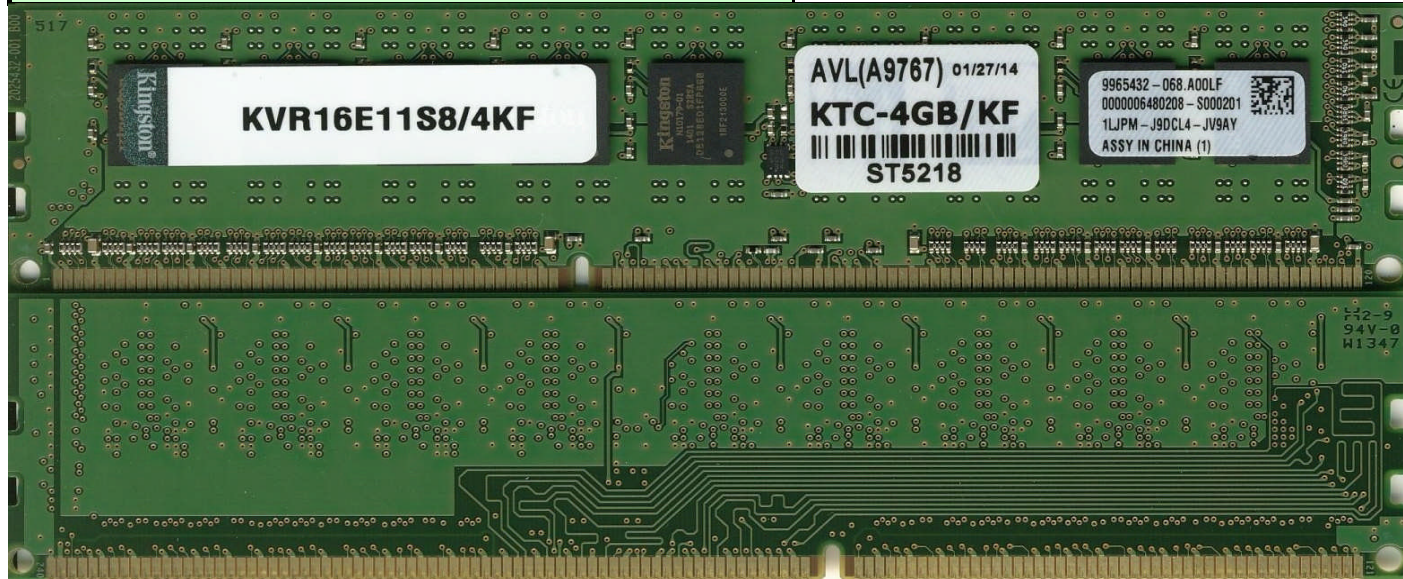


	AVL Supermicro server platform Memory Module Qualification Test		
	AMD Opteron 6128 x1, AMD SR5690 CIMx 1.0.1.0	Test Results	Pass
	PN: KVR16E11S8/4KF (4GB / UDIMM ECC / ECC) On: H8SGL-F Rev.1.00		

RP77D3x-128-KI-SQ-SMC-V2		Module Information		Rev 04/25/2013			
AVL WorkOrder #		WC9834		AVL A#		9767	
Start Date		2/3/2014		End Date		2/4/2014	
Tested By				Van N.			
Module Manufacturer				Kingston			
Module Part Number				KVR16E11S8/4KF			
Module BOM Number				9965432-068.A00LF			
Module Capacity / Memory Type / ECC				4GB / UDIMM ECC/ ECC			
Module Configuration (Width, # of devices, # of Ranks)				512Mx72 /9 Devices / 1 Rank			
Module Speed (Data rate of Mbps, CL-tRP-tRCD)				DDR3-1600 /11-11-11			
DRAM Device Vendor				Kingston			
DRAM Device Part Number / Date code				D5128ED1FPGGB			
DRAM Die Revision / Process Technology (nm)				F			
DRAM Device Config (Density / Width)				512Mbit / x8 /512Mx8bit			
Thermal Sensor Device Vendor / Part Number / Revision				On-Semi			
Register Device Vendor / Part Number / Revision				N/A			



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		
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: KVR16E11S8/4KF (4GB / UDIMM ECC / ECC) On: H8SGL-F Rev.1.00	

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

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. Reset Cycle	Run Linux based diags & utility software @55°C	50 loops	Pass	1 DIMM Per Channel when applicable
4a. Stress Application Test	Run Linux based diags & utility software @55°C	8 Hour per config	Pass	DIMM Loading per spec
4b. Stream Benchmark Test		5 loop per config	Pass	DIMM Loading per spec
4b. Reset Cycle		200 loop per config	Pass	DIMM Loading per spec
5. Functional Stress Test	Memory Stress Test @55°C	12hrs	Pass	DIMM Loading per spec
6. Stress Application Test	Run Linux based diags & utility software @55°C	8hrs	N/A	3 DIMM Per Channel when applicable

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