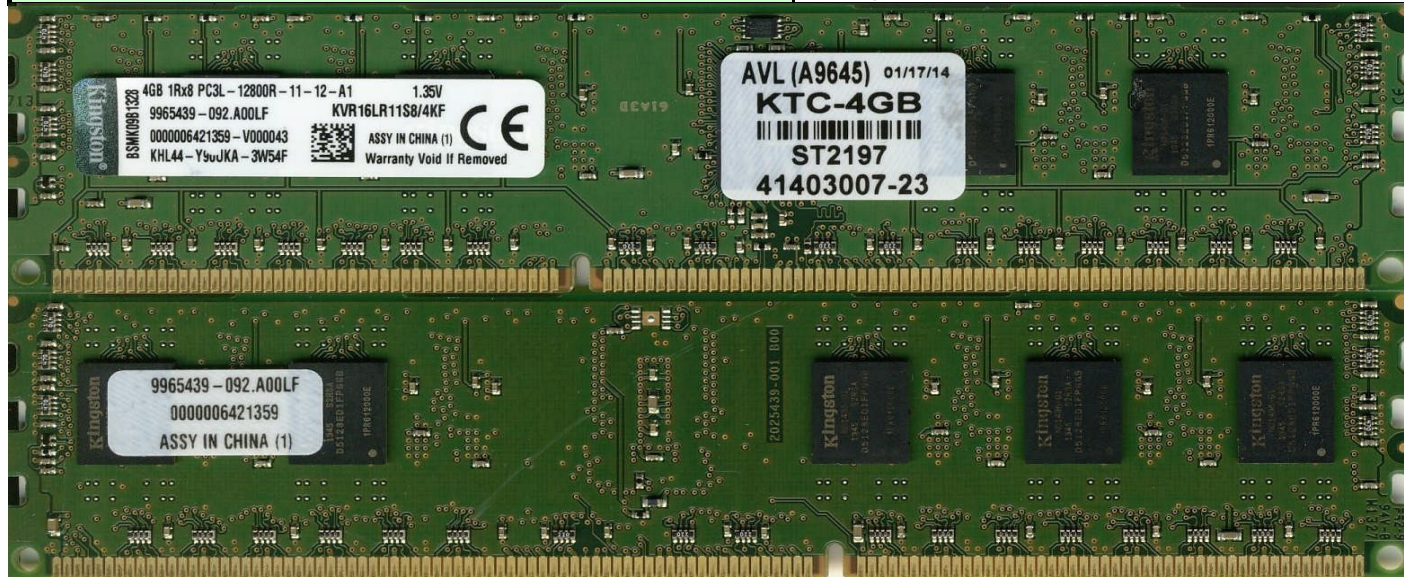


	AVL Supermicro server platform Memory Module Qualification Test		
	AMD Opteron 6128 x2, AMD SR5690 CIMx 1.0.1.0	Test Results	Pass
	PN: KVR16LR11S8/4KF (4GB / RDIMM / ECC) On: H8DGI-F Rev.1.00		

RP77D3x-128-KI-SQ-SMC-V2		Module Information		Rev 04/25/2013			
AVL WorkOrder #		WC9573		AVL A#		9645	
Start Date		3/3/2014		End Date		3/4/2014	
Tested By				Danny G			
Module Manufacturer				Kingston			
Module Part Number				KVR16LR11S8/4KF			
Module BOM Number				9965439-092.A00LF			
Module Capacity / Memory Type / ECC				4GB / RDIMM / ECC			
Module Configuration (Width, # of devices, # of Ranks)				512Mx72 /9 Devices / 1 Rank			
Module Speed (Data rate of Mbps, CL-tRP-tRCD)				DDR3L-1600 /11-11-11			
DRAM Device Vendor				Kingston			
DRAM Device Part Number / Date code				D5128ED1FPGGB		1345	
DRAM Die Revision / Process Technology (nm)				F			
DRAM Device Config (Density / Width)				4Gbit / x8		512MX8bit	
Thermal Sensor Device Vendor / Part Number / Revision				On-Semi			
Register Device Vendor / Part Number / Revision				Montage M88SSTE32882H0		1.0	



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.	2.0a	11/10/2011		
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: KVR16LR11S8/4KF (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 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