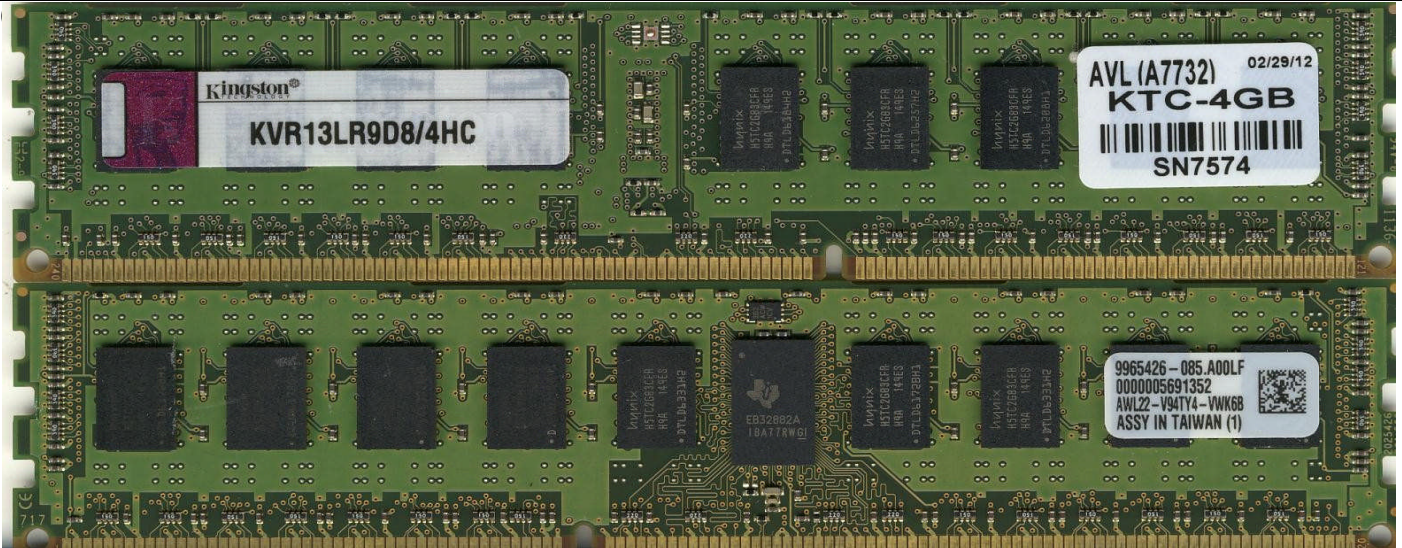
	<b>AVL Supermicro server platform Memory Module Qualification Test</b>		
	Intel X5650(WSM) x 2, Intel 5520 (Tylersburg), Rev C2	Test Results	<b>Pass</b>
	PN: KVR13LR9D8/4HC (4GB / RDIMM / ECC) On: X8DTU-F Rev.2.01		

RP77D3x-106-KI-SQ-SMC-V1		Module Information		Rev 01/07/2011
AVL WorkOrder #	WC3061	AVL A#	7732	
Start Date	4/12/2012	End Date	4/16/2012	
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 )	C			
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)	X8DTU-F	2.01	VM1AS51160	SM9021
BISO Revision / BIOS Date / MRC Rev.	2.1b	12/30/2011	2.3	
CPU / Speed	Intel X5650(WSM) x 2		2.66GHz	
Chipset info (Stepping)	Intel 5520 (Tylersburg), Rev C2			



## AVL Supermicro server platform Memory Module Qualification Test

Intel X5650(WSM) x 2, Intel 5520 (Tylersburg), Rev C2

PN: KVR13LR9D8/4HC (4GB / RDIMM / ECC ) On: X8DTU-F Rev.2.01

**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	Done	Record memory size & speed at each test only
<b>2. SPD Check</b>	Memory module SPD content check for JEDEC compliance	JEDEC	Pass	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	Done	Force 1066 in BIOS
<b>4. Passmark Burn-In</b>		6 Hour per config	Pass	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	Pass	Force 1066 in BIOS
<b>5b. Stream Benchmark</b>		C	Done	Force 1066 in BIOS
<b>5c. Reset Cycle</b>		500 loop per config	Pass	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	N/A	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	Pass	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	N/A	Run @ Max module speed

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