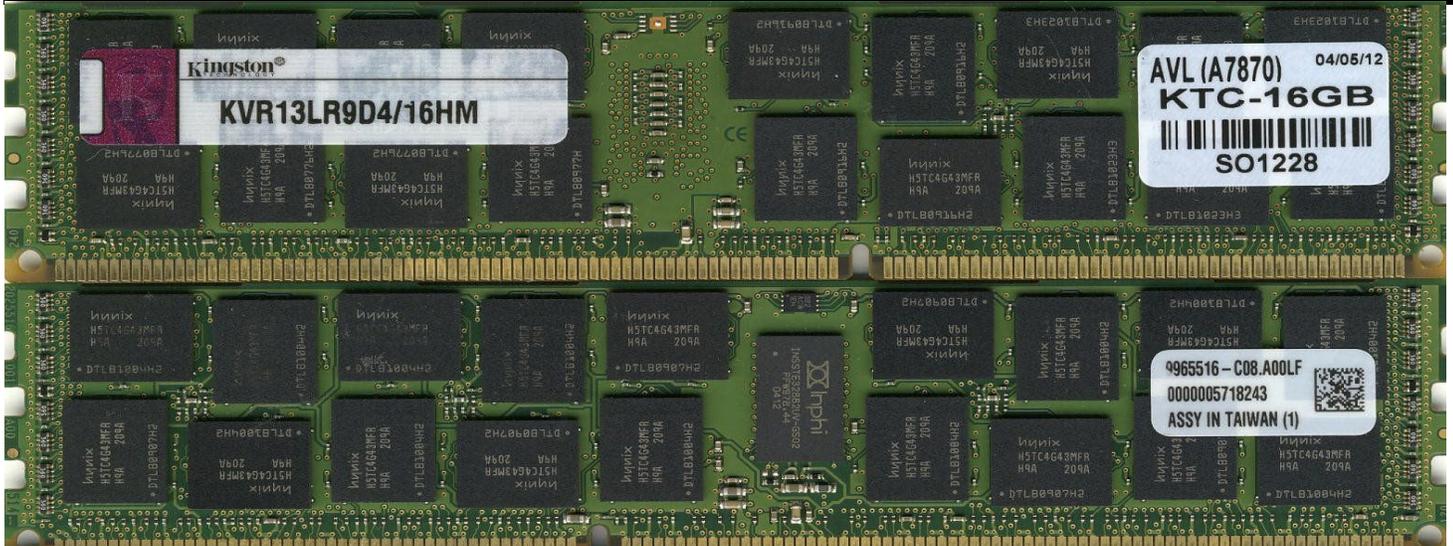


	<b>AVL Supermicro server platform Memory Module Qualification Test</b>		
	Intel E5-2650(SNB-EP) x 2, Intel C602		Test Results
	PN: KVR13LR9D4/16HM (16GB / RDIMM / ECC) On: X9DAI Rev.0		<b>Pass</b>

RP77D3x-106-KI-SQ-SMC-V1		Module Information		Rev 01/07/2011
AVL WorkOrder #	WC3433	AVL A#	7870	
Start Date	4/24/2012	End Date	4/26/2012	
Tested By	Van N.			
Module Manufacturer	Kingston			
Module Part Number	KVR13LR9D4/16HM			
Module BOM Number	9965516-C08.A00LF			
Module Capacity / Memory Type / ECC	16GB / RDIMM / ECC			
Module Configuration (Width, # of devices, # of Ranks)	2Gx72 /36 Devices / 2 Ranks			
Speed Tested (Data rate of Mbps, CL-tRP-tRCD)	DDR3L-1333			
DRAM Device Vendor	Hynix			
DRAM Device Part Number / Date code	H5TC4G43MFR-H9A		1209	
DRAM Die Revision / Process Technology ( nm )	M			
DRAM Device Config (Density / Width)	4Gbit / x4		1024Mx4bit/	
Thermal Sensor Device Vendor / Part Number / Revision	IDT			
Register Device Vendor / Part Number / Revision	Inphi	INSSTE32882UV-GS02	UV-GS02	



Platform System Information				
Motherboard Info (Model# & MB Revision & MB S/N & AVL S/N)	X9DAI	0	0	SN9376
BIOS Revision / BIOS Date	1	2/3/2012		
CPU / Speed	Intel E5-2650(SNB-EP) x 2		2.0GHz	
Chipset info (Stepping)	Intel C602			



## AVL Supermicro server platform Memory Module Qualification Test

Intel E5-2650(SNB-EP) x 2, Intel C602

PN: KVR13LR9D4/16HM (16GB / RDIMM / ECC ) On: X9DAI Rev.0

**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		Done	
<b>2. SPD Check</b>	Memory module SPD content check for JEDEC compliance	JEDEC	Pass	Use proprietary tools
<b>3. Reset Cycle</b>	Run Linux based diags & utility software @ 50°C	50 loops	Pass	1 DIMM Per Channel when applicable
<b>4a. Stress Application Test</b>	Run Linux based diags & utility software @50°C	8 Hour per config	Pass	DIMM Loading per spec
<b>4b. Stream Benchmark Test</b>		5 loop per config	Pass	DIMM Loading per spec
<b>4b. Reset Cycle</b>		200 loop per config	Pass	DIMM Loading per spec
<b>5. Functional Stress Test</b>	Memory Stress Test @50°C -	12hrs	Pass	DIMM Loading per spec
<b>6. Stress Application Test</b>	Run Linux based diags & utility software @50°C	6hrs	N/A	3 DIMM Per Channel when applicable

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

INSSTE32882UV-GS( UV-GS02