

	<b>AVL Supermicro server platform Memory Module Qualification Test</b>		
	Intel E5-2650(IVB) x 2, Intel C602	Test Results	Pass
	PN: KVR16R11S4/8KF (8GB / RDIMM / ECC ) On: X9DR3-LN4F+ Rev.1.2		

RP77D3x-106-KI-SQ-SMC-V2		Module Information		Rev 05/30/2012
AVL WorkOrder #	WC9431	AVL A#	9593	
Start Date	1/15/2014	End Date	1/17/2014	
Tested By	Van N.			
Module Manufacturer	Kingston			
Module Part Number	KVR16R11S4/8KF			
Module BOM Number	9965433-154.A00LF			
Module Capacity / Memory Type / ECC	8GB / RDIMM / ECC			
Module Configuration (Width, # of devices, # of Ranks)	1Gx72 /18 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	D1024ED1FPGGB			
DRAM Die Revision / Process Technology ( nm )	F			
DRAM Device Config (Density / Width)	4Gbit / x4 1024Mx4bit			
Thermal Sensor Device Vendor / Part Number / Revision	On-Semi			
Register Device Vendor / Part Number / Revision	Inphi	SSTE32882	2.1	



Platform System Information				
Motherboard Info (Model# & MB Revision & MB S/N & AVL S/N)	X9DR3-LN4F+	1.2	0M23S40378	SN9374
BIOS Revision / BIOS Date	3.0		7/5/2013	
CPU / Speed	Intel E5-2650(IVB) x 2		2.6GHz	
Chipset info (Stepping)	Intel C602			



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**Test Results:**

PASS

*Comments:*

### AVL Memory Module Qual Test Results Summary

Test # and name	Test Description	Specs	Test	Comments
			Results	
<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	Done	Use proprietary tools
<b>3. Reset Cycle</b>	Run Linux based diags & utility software @ 55°C	50 loops	Pass	1 DIMM Per Channel when applicable
<b>4a. Stress Application Test</b>	Run Linux based diags & utility software @55°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 @55°C -	12hrs	Pass	DIMM Loading per spec
<b>6. Stress Application Test</b>	Run Linux based diags & utility software @55°C	8hrs	Pass	3 DIMM Per Channel when applicable

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