AVL Supermicro server platform Memory Module Qualification Test

Intel E5-2650(IVB) x 2, Intel C602	Test Results	Pass
PN: KVR18R13D4/16KF (16GB / RDIMM / ECC) On: X9DAI Rev.1234567890		

Module Information

RP77D3x-106-KI-SQ-SMC-V2 — Rev 05/30/2012

AVL WorkOrder #	WD1667	AVL A#	9996
Start Date	6/9/2014	End Date	6/10/2014
Tested By		Van N.	
Module Manufacturer		Kingston	
Module Part Number		KVR18R13D4/16KF	
Module BOM Number		9965516-189.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)		DDR3-1866 /13-13-13	
DRAM Device Vendor		Kingston	
DRAM Device Part Number / Date code		D1024JD1FPGJD	1408
DRAM Die Revision / Process Technology (nm)		F	
DRAM Device Config (Density / Width)		1Gbit / x4	1024Mx4bit
Thermal Sensor Device Vendor / Part Number / Revision		ATmel	AT30TSE002B
Register Device Vendor / Part Number / Revision		Inphi	SSTE32882 3.1

Platform System Information

Motherboard Info (Model# & MB Revision & MB S/N & AVL S/N)	X9DAI	1234567890	UM23S30507	SN9376
BIOS Revision / BIOS Date	3.0		8/5/2013	
CPU / Speed	Intel E5-2650(IVB) x 2		2.6GHz	
Chipset info (Stepping)	Intel C602			

ADVANCED VALIDATION LABS, INC.

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Test Results:	PASS
Comments:	

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		**Done**	
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