



### Advanced Validation Labs, Inc.

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Intel PCSD Server Memory Compatibility Test Certificate	
Test System: <b>Intel S2600WT (Wildcat Pass)</b>	Test Result: <b>Pass</b>

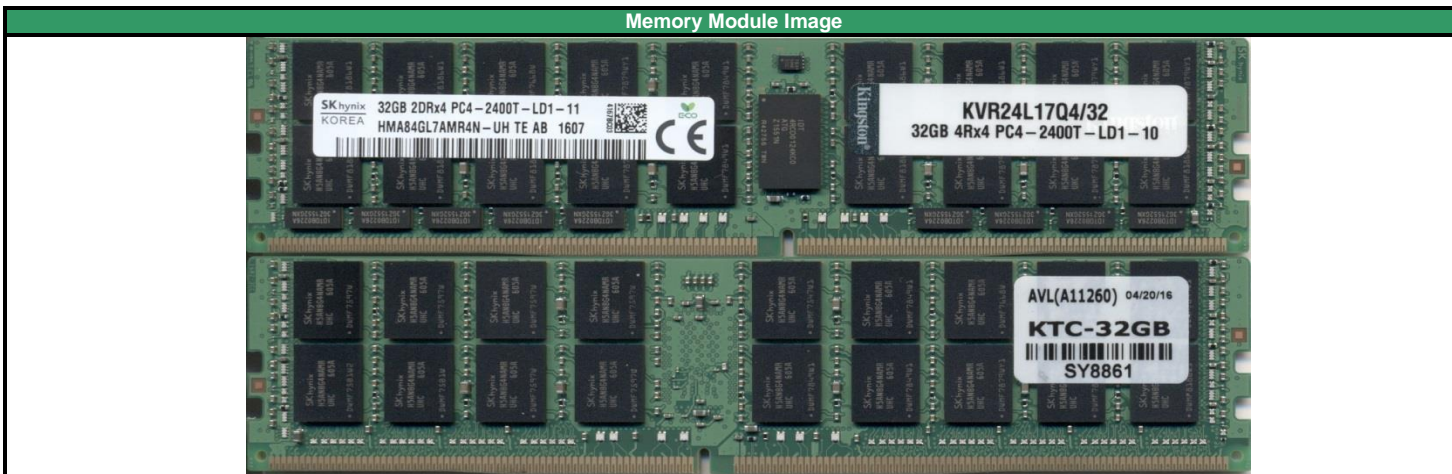
Leveraged System(s): MCB2208WAF4, MCB2208WAF5, MCB2312WHY2, R1208WT2GSR, R1208WTTGS, R1208WTxxx, R1208WTTGSR, R1280WTTGSSPP, R1304WT2GS, R1304WT2GSR, R1304WTTGS, R1304WTxxx, R2000WTxxx, R1304WTTGSR, R2208WT2YS, R2208WT2YSR, R2208WTTYC1, R2208WTTYC1R, R2208WTTYYS, R2208WTTYYSR, R2224WTTYYS, R2224WTTYYSR, R2308WTTGS, R2308WTTYYS, R2308WTTYYSR, R2312WTTYYS, R2312WTTYYSR, R2312WTxxx, S2600WT, S2600WT2, S2600WT2R, S2600WTT, S2600WTTTR, S2600WTTTS1R

Modules Information									
DIMM Vendor	DIMM Part Number	Type	Voltage	Size	Config.	Speed	CL	R/C	Rank
Kingston	KVR24L17Q4/32I	RDIMM	1.2V	32GB	4Gx72	2400	17	D	QR
DRAM Vendor	DRAM Part Number	DRAM Density / Width / Date Code			Register Vendor / Rev.		DIMM Composition		
Hynix	H5AN8G4NAMR-UHC	4Gb	2X1024Mx4bit	1605	IDT	A	(1024Mx4)*4*72		

Leveraged Memory Modules						
Vendor	Type	Voltage	CL	Speed		
1 Kingston	KVR24L17Q4K4/128I	RDIMM	1.2V	15	2400	
2						
3						
4						
5						
6						

System Configuration		
SETUP	System #1	System #2
AVL S/N	SV2346	SV2347
System S/N	BQWL42200131 / LVPP	BQWL42200377 / HVPP
Board Rev. (PBA)	G92187-300	
CPU Type	E5-2690 v4 / 2.60 GHz	
Chipset	C610	
BIOS / Date	01.01.0015 / 01-28-2016	
BMC / ME	01.43.9685 / 03.01.03.021	
FUR/SDR	1.12	
OS	Windows Server 2012 R2	
Test Tool	IWVSS 2.6.1, SELViewer, Syscfg, WinPIRA	

Testing Summary		
Test Items	Test Description	Test Results
1. Latest BIOS Upgrade & Configuration check	Record memory Size and Speed detection from BIOS	Done
2. SPD Check	DIMM SPD content check for JEDEC compliance	Pass
3. Memory Stress	Test for 6 hours @ Max and Min Loading	HVDD/HVPP Hot <b>Pass</b>
4. Memory Stress		HVDD/HVPP Cold <b>Pass</b>
5. Memory Stress		LVDD/LVPP Hot <b>Pass</b>
6. Memory Stress		LVDD/LVPP Cold <b>Pass</b>
6. Power Cycle	Test each corner for 50 cycle in room temp	Pass
Note:		



AVL USE ONLY:							
Completed by:	Andy Chang	Completion Date:	06/06/2016	AVL A#	A11260	AVL W/O	WD5815
Comments:							

Test Results

4C						
Minimum Loading						
Start Date		6/2/2016				
DIMM Voltage		1.22v / 1.16v				
DIMM VPP		2.64v / 2.422v				
DIMM	S/N	A	B	C	D	
CPU1 A1	SY8861	P	P	P	P	
CPU1 A2						
CPU1 A3						
CPU1 B1	SY8862	P	P	P	P	
CPU1 B2						
CPU1 B3						
CPU1 C1	SY8863	P	P	P	P	
CPU1 C2						
CPU1 C3						
CPU1 D1	SY8864	P	P	P	P	
CPU1 D2						
CPU1 D3						
CPU2 E1	SY8865	P	P	P	P	
CPU2 E2						
CPU2 E3						
CPU2 F1	SY8866	P	P	P	P	
CPU2 F2						
CPU2 F3						
CPU2 G1	SY8867	P	P	P	P	
CPU2 G2						
CPU2 G3						
CPU2 H1	SY8868	P	P	P	P	
CPU2 H2						
CPU2 H3						
AC Power Cycling						
50 AC Cycles/corner		P	P	P	P	

4C						
Middle Loading						
Start Date		05/31/16				
DIMM Voltage		1.22v / 1.16v				
DIMM VPP		2.64v / 2.422v				
DIMM	S/N	A	B	C	D	
CPU1 A1	SY8861	P	P	P	P	
CPU1 A2	SY8862	P	P	P	P	
CPU1 A3						
CPU1 B1	SY8863	P	P	P	P	
CPU1 B2	SY8864	P	P	P	P	
CPU1 B3						
CPU1 C1	SY8865	P	P	P	P	
CPU1 C2	SY8866	P	P	P	P	
CPU1 C3						
CPU1 D1	SY8867	P	P	P	P	
CPU1 D2	SY8868	P	P	P	P	
CPU1 D3						
CPU2 E1	SY8869	P	P	P	P	
CPU2 E2	SY9970	P	P	P	P	
CPU2 E3						
CPU2 F1	SY8871	P	P	P	P	
CPU2 F2	SY8872	P	P	P	P	
CPU2 F3						
CPU2 G1	SY8873	P	P	P	P	
CPU2 G2	SY8874	P	P	P	P	
CPU2 G3						
CPU2 H1	SY8875	P	P	P	P	
CPU2 H2	SY8876	P	P	P	P	
CPU2 H3						
AC Power Cycling						
50 AC Cycles/corner		P	P	P	P	

4C						
Maximum Loading						
Start Date		5/24/2016				
DIMM Voltage		1.22v				
DIMM VPP		2.64v / 2.422v				
DIMM	S/N	A	B	C	D	
CPU1 A1	SY8886	P	P	P	P	
CPU1 A2	SY8887	P	P	P	P	
CPU1 A3	SY8888	P	P	P	P	
CPU1 B1	SY8889	P	P	P	P	
CPU1 B2	SY8890	P	P	P	P	
CPU1 B3	SY8891	P	P	P	P	
CPU1 C1	SY8892	P	P	P	P	
CPU1 C2	SY8893	P	P	P	P	
CPU1 C3	SY8894	P	P	P	P	
CPU1 D1	SY8895	P	P	P	P	
CPU1 D2	SY8896	P	P	P	P	
CPU1 D3	SY8897	P	P	P	P	
CPU2 E1	SY8898	P	P	P	P	
CPU2 E2	SY8899	P	P	P	P	
CPU2 E3	SY8900	P	P	P	P	
CPU2 F1	SY8901	P	P	P	P	
CPU2 F2	SY8902	P	P	P	P	
CPU2 F3	SY8903	P	P	P	P	
CPU2 G1	SY8904	P	P	P	P	
CPU2 G2	SY8905	P	P	P	P	
CPU2 G3	SY8906	P	P	P	P	
CPU2 H1	SY8907	P	P	P	P	
CPU2 H2	SY8908	P	P	P	P	
CPU2 H3	SY8909	P	P	P	P	
AC Power Cycling						
50 AC Cycles/corner		P	P	P	P	