



### 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, R2208WTTYS, R2208WTTYSR, R2224WTTYS, R2224WTTYSR, R2308WTTGS, R2308WTTYS, R2308WTTYSR, R2312WTTYS, R2312WTTYSR, R2312WTxxx, S2600WT, S2600WT2, S2600WT2R, S2600WTT, S2600WTTT, S2600WTTT1R

#### Modules Information

DIMM Vendor	DIMM Part Number	Type	Voltage	Size	Config.	Speed	CL	R/C	Rank
Kingston	KVR24R17S4/16L	RDIMM	1.2V	16GB	2Gx72	2400	17	C	SR
DRAM Vendor	DRAM Part Number	DRAM Density / Width / Date Code		Register Vendor / Rev.		DIMM Composition			
Hynix	H5AN8G4NAFR-UHC	8Gb	2048Mx4bit	1704	IDT	A	(2048Mx4)*72		

#### Leveraged Memory Modules

Vendor	Type	Voltage	CL	Speed
1 Kingston	KVR24R17S4K4/64L	RDIMM	1.2V	17 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 Pass
4. Memory Stress		HVDD/HVPP Cold Pass
5. Memory Stress		LVDD/LVPP Hot Pass
6. Memory Stress		LVDD/LVPP Cold Pass
6. Power Cycle	Test each corner for 50 cycle in room temp	N/A
Note:		

#### Memory Module Image



#### AVL USE ONLY:

Completed by:	Andy Chang	Completion Date:	07/31/2017	AVL A#	A12087	AVL W/O	WD8165
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Comments:

Test Results

4C					
Minimum Loading					
Start Date		7/5/2017			
DIMM Voltage		1.22v / 1.16v			
DIMM VPP		2.64v / 2.422v			
DIMM	S/N	A	B	C	D
CPU1 A1	S27849	P	P	P	P
CPU1 A2					
CPU1 A3					
CPU1 B1	S27850	P	P	P	P
CPU1 B2					
CPU1 B3					
CPU1 C1	S27851	P	P	P	P
CPU1 C2					
CPU1 C3					
CPU1 D1	S27852	P	P	P	P
CPU1 D2					
CPU1 D3					
CPU2 E1	S27853	P	P	P	P
CPU2 E2					
CPU2 E3					
CPU2 F1	S27857	P	P	P	P
CPU2 F2					
CPU2 F3					
CPU2 G1	S27855	P	P	P	P
CPU2 G2					
CPU2 G3					
CPU2 H1	S27856	P	P	P	P
CPU2 H2					
CPU2 H3					
AC Power Cycling					
50 AC Cycles/corner		P	P	P	P

4C					
Middle Loading					
Start Date		7/5/2017			
DIMM Voltage		1.22v / 1.16v			
DIMM VPP		2.64v / 2.422v			
DIMM	S/N	A	B	C	D
CPU1 A1	S27849	P	P	P	P
CPU1 A2	S27850	P	P	P	P
CPU1 A3					
CPU1 B1	S27851	P	P	P	P
CPU1 B2	S27852	P	P	P	P
CPU1 B3					
CPU1 C1	S27853	P	P	P	P
CPU1 C2	S27884	P	P	P	P
CPU1 C3					
CPU1 D1	S27855	P	P	P	P
CPU1 D2	S27856	P	P	P	P
CPU1 D3					
CPU2 E1	S27858	P	P	P	P
CPU2 E2	S27859	P	P	P	P
CPU2 E3					
CPU2 F1	S27860	P	P	P	P
CPU2 F2	S27861	P	P	P	P
CPU2 F3					
CPU2 G1	S27885	P	P	P	P
CPU2 G2	S27863	P	P	P	P
CPU2 G3					
CPU2 H1	S27864	P	P	P	P
CPU2 H2	S27865	P	P	P	P
CPU2 H3					
AC Power Cycling					
50 AC Cycles/corner		P	P	P	P

4C					
Maximum Loading					
Start Date		7/5/2017			
DIMM Voltage		1.22v			
DIMM VPP		2.64v / 2.422v			
DIMM	S/N	A	B	C	D
CPU1 A1	S27849	P	P	P	P
CPU1 A2	S27850	P	P	P	P
CPU1 A3	S27851	P	P	P	P
CPU1 B1	S27852	P	P	P	P
CPU1 B2	S27853	P	P	P	P
CPU1 B3	S27884	P	P	P	P
CPU1 C1	S27855	P	P	P	P
CPU1 C2	S27856	P	P	P	P
CPU1 C3	S27857	P	P	P	P
CPU1 D1	S27858	P	P	P	P
CPU1 D2	S27859	P	P	P	P
CPU1 D3	S27860	P	P	P	P
CPU2 E1	S27861	P	P	P	P
CPU2 E2	S27885	P	P	P	P
CPU2 E3	S27863	P	P	P	P
CPU2 F1	S27864	P	P	P	P
CPU2 F2	S27865	P	P	P	P
CPU2 F3	S27866	P	P	P	P
CPU2 G1	S27867	P	P	P	P
CPU2 G2	S27868	P	P	P	P
CPU2 G3	S27869	P	P	P	P
CPU2 H1	S27886	P	P	P	P
CPU2 H2	S27871	P	P	P	P
CPU2 H3	S27872	P	P	P	P
AC Power Cycling					
50 AC Cycles/corner		P	P	P	P