



Advanced Validation Labs, Inc.
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Intel PCSD Server Memory Compatibility Test Certificate	
Test System: Intel S2600WT (Wildcat Pass)	Test Result: Pass

Leveraged System(s): MCB2208WAF4, MCB2208WAF5, MCB2312WHY2, R1208WT2GSR, R1208WTTGS, R1208WTxxx, R1280WTTGSSPP, R1304WT2GS, R1304WT2GSR, R1304WTTGS, R1304WTxxx, R2000WTxxx, R1304WTTGSR, R2208WT2YS, R2208WT2YSR, R2208WTTTC1, R2208WTTTC1R, R2208WTTYS, R2208WTTYSR, R2224WTTYS, R2224WTTYSR, R2308WTTGS, R2308WTTYS, R2308WTTYSR, R2312WTTYS, R2312WTTYSR, R2312WTxxx, S2600WT, S2600WT2, S2600WT2R, S2600WTT, S2600WTTTR, S2600WTTTS1R

Modules Information										
DIMM Vendor	DIMM Part Number	Type	Voltage	Size	Config.	Speed	CL	R/C	Rank	
Kingston	KSM24RD4/32HCI	RDIMM	1.2V	32GB	4Gx72	2400	17	B	DR	
DRAM Vendor	DRAM Part Number	DRAM Density / Width / Date Code		Register Vendor / Rev.		DIMM Composition				
SK Hynix	H5AN8G4NCJR-WMC	8Gb		2048Mx4bit		1911		IDT	C0	(2048Mx4)'2'72

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	01.01.0028	
BMC / ME	01.56 / 051	
FUR/SDR	1.18	
OS	Windows Server 2012 R2	
Test Tool	iVWSS 2.7.0, 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	Pass

Note:

Memory Module Image

AVL USE ONLY:

Completed by:	Andy Chang	Completion Date:	02/07/2020	AVL A#	U191270	AVL W/O	WF2631
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Comments:

Test Results									
4C Minimum Loading									
Start Date	11/15/2019								
DIMM Voltage	1.22v / 1.16v								
DIMM VPP	2.64v / 2.422v								
DIMM	S/N	A	B	C	D				
CPU1 A1	70-009	P	P	P	P				
CPU1 A2									
CPU1 A3									
CPU1 B1	70-010	P	P	P	P				
CPU1 B2									
CPU1 B3									
CPU1 C1	70-011	P	P	P	P				
CPU1 C2									
CPU1 C3									
CPU1 D1	70-012	P	P	P	P				
CPU1 D2									
CPU1 D3									
CPU2 E1	71-009	P	P	P	P				
CPU2 E2									
CPU2 E3									
CPU2 F1	71-010	P	P	P	P				
CPU2 F2									
CPU2 F3									
CPU2 G1	71-011	P	P	P	P				
CPU2 G2									
CPU2 G3									
CPU2 H1	71-012	P	P	P	P				
CPU2 H2									
CPU2 H3									
AC Power Cycling									
50 AC Cycles/corner									

4C Middle Loading									
Start Date	11/15/19								
DIMM Voltage	1.22v / 1.16v								
DIMM VPP	2.64v / 2.422v								
DIMM	S/N	A	B	C	D				
CPU1 A1	70-001	P	P	P	P				
CPU1 A2	70-002	P	P	P	P				
CPU1 A3									
CPU1 B1	70-003	P	P	P	P				
CPU1 B2	70-004	P	P	P	P				
CPU1 B3									
CPU1 C1	70-005	P	P	P	P				
CPU1 C2	70-006	P	P	P	P				
CPU1 C3									
CPU1 D1	70-007	P	P	P	P				
CPU1 D2	70-008	P	P	P	P				
CPU1 D3									
CPU2 E1	71-001	P	P	P	P				
CPU2 E2	71-002	P	P	P	P				
CPU2 E3									
CPU2 F1	71-003	P	P	P	P				
CPU2 F2	71-004	P	P	P	P				
CPU2 F3									
CPU2 G1	71-005	P	P	P	P				
CPU2 G2	71-006	P	P	P	P				
CPU2 G3									
CPU2 H1	71-007	P	P	P	P				
CPU2 H2	71-008	P	P	P	P				
CPU2 H3									
AC Power Cycling									
50 AC Cycles/corner									

4C Maximum Loading									
Start Date	11/15/2019								
DIMM Voltage	1.22v								
DIMM VPP	2.64v / 2.422v								
DIMM	S/N	A	B	C	D				
CPU1 A1	70-001	P	P	P	P				
CPU1 A2	70-002	P	P	P	P				
CPU1 A3	70-003	P	P	P	P				
CPU1 B1	70-004	P	P	P	P				
CPU1 B2	70-005	P	P	P	P				
CPU1 B3	70-006	P	P	P	P				
CPU1 C1	70-007	P	P	P	P				
CPU1 C2	70-008	P	P	P	P				
CPU1 C3	70-009	P	P	P	P				
CPU1 D1	70-010	P	P	P	P				
CPU1 D2	70-011	P	P	P	P				
CPU1 D3	70-012	P	P	P	P				
CPU2 E1	71-001	P	P	P	P				
CPU2 E2	71-002	P	P	P	P				
CPU2 E3	71-003	P	P	P	P				
CPU2 F1	71-004	P	P	P	P				
CPU2 F2	71-005	P	P	P	P				
CPU2 F3	71-006	P	P	P	P				
CPU2 G1	71-007	P	P	P	P				
CPU2 G2	71-008	P	P	P	P				
CPU2 G3	71-009	P	P	P	P				
CPU2 H1	71-010	P	P	P	P				
CPU2 H2	71-011	P	P	P	P				
CPU2 H3	71-012	P	P	P	P				
AC Power Cycling									
50 AC Cycles/corner									