



Advanced Validation Labs, Inc.
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Intel PCSD Server Memory Compatibility Test Certificate

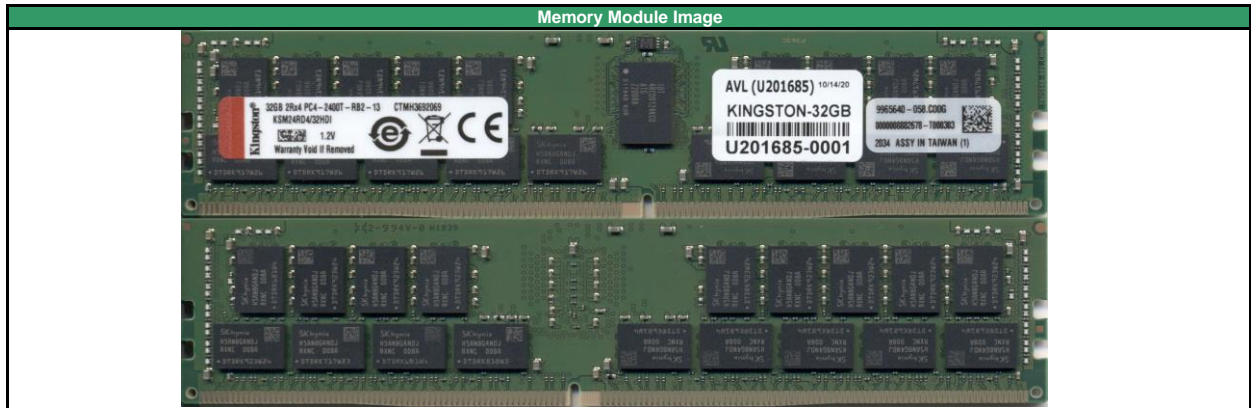
Test System: Intel S2600WT (Wildcat Pass)	Test Result: Pass
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Leveraged System(s): MCB2208WAF4, MCB2208WAF5, MCB2312WHY2, R1208WT2GSR, R1208WTTGS, R1208WTxxx, R1208WTTGSR, R1280WTTGSSPP, R1304WT2GS, R1304WT2GSR, R1304WTTGS, R1304WTxxx, R2000WTxxx, R1304WTTGSR, 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	KSM24RD4/32HDI	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	H5AN8G4NDJR-XNC	8Gb	2048Mx4bit	2008	IDT	B	(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	iVSS 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:		



AVL USE ONLY:							
Completed by:	Andy Chang	Completion Date:	3/8/2021	AVL A#	U201685	AVL W/O	WF8323
Comments:							

Test Results																	
4C Minimum Loading				4C Middle Loading				4C Maximum Loading									
Start Date		2/10/2021		Start Date		02/10/21		Start Date		2/10/2021							
DIMM Voltage		1.22v / 1.16v		DIMM Voltage		1.22v / 1.16v		DIMM Voltage		1.22v							
DIMM VPP		2.64v / 2.422v		DIMM VPP		2.64v / 2.422v		DIMM VPP		2.64v / 2.422v							
DIMM	S/N	A	B	C	D	DIMM	S/N	A	B	C	D	DIMM	S/N	A	B	C	D
CPU1 A1	0001	P	P	P	P	CPU1 A1	0001	P	P	P	P	CPU1 A1	0001	P	P	P	P
CPU1 A2						CPU1 A2	0002	P	P	P	P	CPU1 A2	0002	P	P	P	P
CPU1 A3						CPU1 A3						CPU1 A3	0003	P	P	P	P
CPU1 B1	0002	P	P	P	P	CPU1 B1	0003	P	P	P	P	CPU1 B1	0004	P	P	P	P
CPU1 B2						CPU1 B2	0004	P	P	P	P	CPU1 B2	0005	P	P	P	P
CPU1 B3						CPU1 B3						CPU1 B3	0006	P	P	P	P
CPU1 C1	0003	P	P	P	P	CPU1 C1	0005	P	P	P	P	CPU1 C1	0007	P	P	P	P
CPU1 C2						CPU1 C2	0006	P	P	P	P	CPU1 C2	0008	P	P	P	P
CPU1 C3						CPU1 C3						CPU1 C3	0009	P	P	P	P
CPU1 D1	0004	P	P	P	P	CPU1 D1	0007	P	P	P	P	CPU1 D1	0010	P	P	P	P
CPU1 D2						CPU1 D2	0008	P	P	P	P	CPU1 D2	0011	P	P	P	P
CPU1 D3						CPU1 D3						CPU1 D3	0012	P	P	P	P
CPU2 E1	0005	P	P	P	P	CPU2 E1	0009	P	P	P	P	CPU2 E1	0013	P	P	P	P
CPU2 E2						CPU2 E2	0010	P	P	P	P	CPU2 E2	0014	P	P	P	P
CPU2 E3						CPU2 E3						CPU2 E3	0015	P	P	P	P
CPU2 F1	0006	P	P	P	P	CPU2 F1	0011	P	P	P	P	CPU2 F1	0016	P	P	P	P
CPU2 F2						CPU2 F2	0012	P	P	P	P	CPU2 F2	0017	P	P	P	P
CPU2 F3						CPU2 F3						CPU2 F3	0018	P	P	P	P
CPU2 G1	0007	P	P	P	P	CPU2 G1	0013	P	P	P	P	CPU2 G1	0019	P	P	P	P
CPU2 G2						CPU2 G2	0014	P	P	P	P	CPU2 G2	0020	P	P	P	P
CPU2 G3						CPU2 G3						CPU2 G3	0021	P	P	P	P
CPU2 H1	0008	P	P	P	P	CPU2 H1	0015	P	P	P	P	CPU2 H1	0022	P	P	P	P
CPU2 H2						CPU2 H2	0016	P	P	P	P	CPU2 H2	0023	P	P	P	P
CPU2 H3						CPU2 H3						CPU2 H3	0024	P	P	P	P