



### Advanced Validation Labs, Inc.

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Intel PCSD Server Memory Compatibility Test Certificate	
Test System: <b>Intel S2600CP (Canoe Pass)</b>	Test Result: <b>Pass</b>

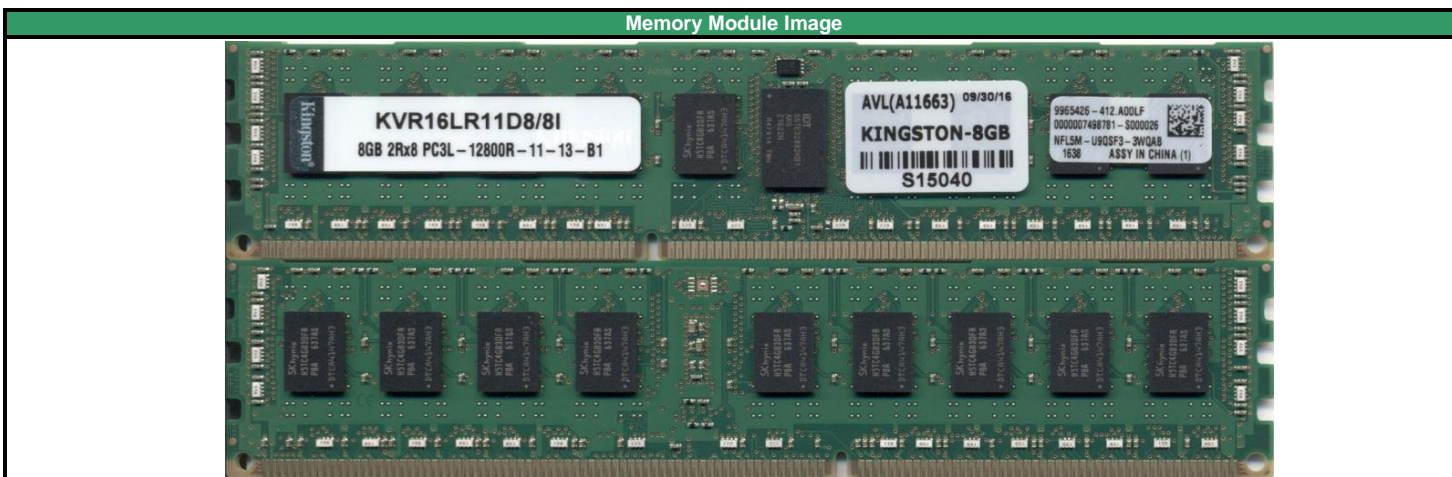
Leveraged System(s): S2600WP Washington Pass; W2600CR Crown Pass; S2400SC Swiftcurrent Pass; S2400LP Lincoln Pass; S2600KI Kings Island; S1600JP Jackson Pass; S2400EP Eagle Pass; S2400BB Black Bear Pass; S1400FP Freemont Pass; S1400SP Salmon Pass; S2600IP Iron Pass; S2600CO Copper Pass.

Module Information									
DIMM Vendor	DIMM Part Number	Type	Voltage	Size	Config.	Speed	CL	R/C	Rank
Kingston	KVR16LR11D8/8I	RDIMM	1.35V	8GB	1Gx72	1600	11	B	DR
DRAM Vendor	DRAM Part Number	DRAM Density / Width / Date Code			Register Vendor / Rev.		DIMM Composition		
Hynix	H5TC4G83DFR-PBA	4Gb 512Mx8bit 1637			IDT B		(512Mx8)*2*72		

Leveraged Memory Modules						
	Vendor	Type	Voltage	CL	Speed	
1	Kingston	Kingston	1.35V	11	1600	
2	Kingston	Kingston	1.35V	11	1600	
3						
4						
5						
6						

System Configuration		
SETUP	System #1	System #2
AVL S/N	SN2311	SN6442
System S/N	QSCP13800398	QSCP14800221
Board Rev. (PBA)	E99552-401	G50768-501
CPU Type	E5-2680 v2 / 2.8 GHz	
Chipset	Intel C602	
BIOS / Date	02.03.0003 / 04/19/2014	
BMC / ME	01.21.6038 / 02.01.07.328	
FUR/SDR	1.11	
OS	Windows 2008 Enterprise R2 64bit SP1	
Test Tool	iWVSS 2.6.5, SELViewer, Pvmode2, Syscfg, WinPIRA, MemPuller	

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 Hot <b>Pass</b>
4. Memory Stress		HVDD Cold <b>Pass</b>
5. Memory Stress		LVDD Hot <b>Pass</b>
6. Memory Stress		LVDD Cold <b>Pass</b>
Note:		



AVL USE ONLY:							
Completed by:	Andy Chang	Completion Date:	11/23/2016	AVL A#	A11663	AVL W/O	WD6999
Comments:							

Test Results

4C					
Minimum Loading					
Start Date		10/24/2016			
DIMM Voltage		1.5v			
DIMM	S/N	A	B	C	D
CPU1 A1	S15040	P	P	P	P
CPU1 A2					
CPU1 B1	S15041	P	P	P	P
CPU1 B2					
CPU1 C1	S15042	P	P	P	P
CPU1 C2					
CPU1 D1	S15043	P	P	P	P
CPU1 D2					
CPU2 E1	S15044	P	P	P	P
CPU2 E2					
CPU2 F1	S15045	P	P	P	P
CPU2 F2					
CPU2 G1	S15046	P	P	P	P
CPU2 G2					
CPU2 H1	S15047	P	P	P	P
CPU2 H2					

4C					
Maximum Loading					
Start Date		10/19/16			
DIMM Voltage		1.5v			
DIMM	S/N	A	B	C	D
CPU1 A1	S15040	P	P	P	P
CPU1 A2	S15041	P	P	P	P
CPU1 B1	S15042	P	P	P	P
CPU1 B2	S15043	P	P	P	P
CPU1 C1	S15044	P	P	P	P
CPU1 C2	S15045	P	P	P	P
CPU1 D1	S15046	P	P	P	P
CPU1 D2	S15047	P	P	P	P
CPU2 E1	S15048	P	P	P	P
CPU2 E2	S15049	P	P	P	P
CPU2 F1	S15050	P	P	P	P
CPU2 F2	S15051	P	P	P	P
CPU2 G1	S15052	P	P	P	P
CPU2 G2	S15053	P	P	P	P
CPU2 H1	S15054	P	P	P	P
CPU2 H2	S15055	P	P	P	P

4C					
Minimum Loading					
Start Date		10/24/2016			
DIMM Voltage		1.35v			
DIMM	S/N	E	F	G	H
CPU1 A1	S15040	P	P	P	P
CPU1 A2					
CPU1 B1	S15041	P	P	P	P
CPU1 B2					
CPU1 C1	S15042	P	P	P	P
CPU1 C2					
CPU1 D1	S15043	P	P	P	P
CPU1 D2					
CPU2 E1	S15044	P	P	P	P
CPU2 E2					
CPU2 F1	S15045	P	P	P	P
CPU2 F2					
CPU2 G1	S15046	P	P	P	P
CPU2 G2					
CPU2 H1	S15047	P	P	P	P
CPU2 H2					

4C					
Maximum Loading					
Start Date		10/19/16			
DIMM Voltage		1.35v			
DIMM	S/N	E	F	G	H
CPU1 A1	S15040	P	P	P	P
CPU1 A2	S15041	P	P	P	P
CPU1 B1	S15042	P	P	P	P
CPU1 B2	S15043	P	P	P	P
CPU1 C1	S15044	P	P	P	P
CPU1 C2	S15045	P	P	P	P
CPU1 D1	S15046	P	P	P	P
CPU1 D2	S15047	P	P	P	P
CPU2 E1	S15048	P	P	P	P
CPU2 E2	S15049	P	P	P	P
CPU2 F1	S15050	P	P	P	P
CPU2 F2	S15051	P	P	P	P
CPU2 G1	S15052	P	P	P	P
CPU2 G2	S15053	P	P	P	P
CPU2 H1	S15054	P	P	P	P
CPU2 H2	S15055	P	P	P	P