



Advanced Validation Labs, Inc.

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Intel PCSD Server Memory Compatibility Test Certificate	
Test System: Intel S2600GZ (Grizzly Pass)	Test Result: Pass

Leveraged System(s):N/A

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	KVR16LR11D8K3/24I	RDIMM	1.35V	11	1600
2	Kingston	KVR16LR11D8K4/32I	RDIMM	1.35V	11	1600
3						
4						
5						
6						

System Configuration		
SETUP	System #1	System #2
AVL S/N	SR2525	SO8251
System S/N	QSGR14500317	QSGR14600736
Board Rev. (PBA)	G11481-301	
CPU Type	E5-2697 v2 / 2.7 GHz	
Chipset	Intel C602	
BIOS / Date	02.03.2003 / 06/19/2014	
BMC / ME	1.21.6038 / 02.01.07.328	
FUR/SDR	1.13	
OS	Windows 2008 Enterprise R2 64bit SP1	
Test Tool	iWVSS 2.6.5, SELViewer, Pmode2, 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 - A/E Pass
4. Memory Stress		HVDD Cold - B/F Pass
5. Memory Stress		LVDD Hot - C/G Pass
6. Memory Stress		LVDD Cold - D/H 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:	12/16/2016	AVL A#	A11663	AVL W/O	WD6996
Comments:							

Test Results

4C					
Minimum Loading					
Start Date		11/7/2016			
DIMM Voltage		1.5v			
DIMM	S/N	A	B	C	D
CPU1 A1	S15065	P	P	P	P
CPU1 A2					
CPU1 A3					
CPU1 B1	S15066	P	P	P	P
CPU1 B2					
CPU1 B3					
CPU1 C1	S15067	P	P	P	P
CPU1 C2					
CPU1 C3					
CPU1 D1	S15068	P	P	P	P
CPU1 D2					
CPU1 D3					
CPU2 E1	S15069	P	P	P	P
CPU2 E2					
CPU2 E3					
CPU2 F1	S15070	P	P	P	P
CPU2 F2					
CPU2 F3					
CPU2 G1	S15071	P	P	P	P
CPU2 G2					
CPU2 G3					
CPU2 H1	S15072	P	P	P	P
CPU2 H2					
CPU2 H3					
AC Power Cycling					
50 AC Cycles/corner					

4C					
Middle Loading					
Start Date		11/02/16			
DIMM Voltage		1.5v			
DIMM	S/N	A	B	C	D
CPU1 A1	S15065	P	P	P	P
CPU1 A2	S15066	P	P	P	P
CPU1 A3					
CPU1 B1	S15067	P	P	P	P
CPU1 B2	S15068	P	P	P	P
CPU1 B3					
CPU1 C1	S15069	P	P	P	P
CPU1 C2	S15070	P	P	P	P
CPU1 C3					
CPU1 D1	S15071	P	P	P	P
CPU1 D2	S15072	P	P	P	P
CPU1 D3					
CPU2 E1	S15073	P	P	P	P
CPU2 E2	S15074	P	P	P	P
CPU2 E3					
CPU2 F1	S15075	P	P	P	P
CPU2 F2	S15076	P	P	P	P
CPU2 F3					
CPU2 G1	S15077	P	P	P	P
CPU2 G2	S15078	P	P	P	P
CPU2 G3					
CPU2 H1	S15079	P	P	P	P
CPU2 H2	S15080	P	P	P	P
CPU2 H3					
AC Power Cycling					
50 AC Cycles/corner					

4C					
Maximum Loading					
Start Date		1024/16			
DIMM Voltage		1.5v			
DIMM	S/N	A	B	C	D
CPU1 A1	S15065	P	P	P	P
CPU1 A2	S15066	P	P	P	P
CPU1 A3	S15067	P	P	P	P
CPU1 B1	S15068	P	P	P	P
CPU1 B2	S15069	P	P	P	P
CPU1 B3	S15070	P	P	P	P
CPU1 C1	S15071	P	P	P	P
CPU1 C2	S15072	P	P	P	P
CPU1 C3	S15073	P	P	P	P
CPU1 D1	S15074	P	P	P	P
CPU1 D2	S15075	P	P	P	P
CPU1 D3	S15076	P	P	P	P
CPU2 E1	S15077	P	P	P	P
CPU2 E2	S15078	P	P	P	P
CPU2 E3	S15079	P	P	P	P
CPU2 F1	S15080	P	P	P	P
CPU2 F2	S15081	P	P	P	P
CPU2 F3	S15082	P	P	P	P
CPU2 G1	S15083	P	P	P	P
CPU2 G2	S15084	P	P	P	P
CPU2 G3	S15085	P	P	P	P
CPU2 H1	S15086	P	P	P	P
CPU2 H2	S15087	P	P	P	P
CPU2 H3	S15088	P	P	P	P
AC Power Cycling					
50 AC Cycles/corner					

4C					
Minimum Loading					
Start Date		11/21/2016			
DIMM Voltage		1.35v			
DIMM	S/N	E	F	G	H
CPU1 A1	S15065	P	P	P	P
CPU1 A2					
CPU1 A3					
CPU1 B1	S15066	P	P	P	P
CPU1 B2					
CPU1 B3					
CPU1 C1	S15067	P	P	P	P
CPU1 C2					
CPU1 C3					
CPU1 D1	S15068	P	P	P	P
CPU1 D2					
CPU1 D3					
CPU2 E1	S15069	P	P	P	P
CPU2 E2					
CPU2 E3					
CPU2 F1	S15070	P	P	P	P
CPU2 F2					
CPU2 F3					
CPU2 G1	S15071	P	P	P	P
CPU2 G2					
CPU2 G3					
CPU2 H1	S15072	P	P	P	P
CPU2 H2					
CPU2 H3					
AC Power Cycling					
50 AC Cycles/corner					

4C					
Middle Loading					
Start Date		11/10/16			
DIMM Voltage		1.35v			
DIMM	S/N	E	F	G	H
CPU1 A1	S15065	P	P	P	P
CPU1 A2	S15066	P	P	P	P
CPU1 A3					
CPU1 B1	S15067	P	P	P	P
CPU1 B2	S15068	P	P	P	P
CPU1 B3					
CPU1 C1	S15069	P	P	P	P
CPU1 C2	S15070	P	P	P	P
CPU1 C3					
CPU1 D1	S15071	P	P	P	P
CPU1 D2	S15072	P	P	P	P
CPU1 D3					
CPU2 E1	S15073	P	P	P	P
CPU2 E2	S15074	P	P	P	P
CPU2 E3					
CPU2 F1	S15075	P	P	P	P
CPU2 F2	S15076	P	P	P	P
CPU2 F3					
CPU2 G1	S15077	P	P	P	P
CPU2 G2	S15078	P	P	P	P
CPU2 G3					
CPU2 H1	S15079	P	P	P	P
CPU2 H2	S15080	P	P	P	P
CPU2 H3					
AC Power Cycling					
50 AC Cycles/corner					

4C					
Maximum Loading					
Start Date		1026/16			
DIMM Voltage		1.35v			
DIMM	S/N	E	F	G	H
CPU1 A1	S15065	P	P	P	P
CPU1 A2	S15066	P	P	P	P
CPU1 A3	S15067	P	P	P	P
CPU1 B1	S15068	P	P	P	P
CPU1 B2	S15069	P	P	P	P
CPU1 B3	S15070	P	P	P	P
CPU1 C1	S15071	P	P	P	P
CPU1 C2	S15072	P	P	P	P
CPU1 C3	S15073	P	P	P	P
CPU1 D1	S15074	P	P	P	P
CPU1 D2	S15075	P	P	P	P
CPU1 D3	S15076	P	P	P	P
CPU2 E1	S15077	P	P	P	P
CPU2 E2	S15078	P	P	P	P
CPU2 E3	S15079	P	P	P	P
CPU2 F1	S15080	P	P	P	P
CPU2 F2	S15081	P	P	P	P
CPU2 F3	S15082	P	P	P	P
CPU2 G1	S15083	P	P	P	P
CPU2 G2	S15084	P	P	P	P
CPU2 G3	S15085	P	P	P	P
CPU2 H1	S15086	P	P	P	P
CPU2 H2	S15087	P	P	P	P
CPU2 H3	S15088	P	P	P	P
AC Power Cycling					
50 AC Cycles/corner					