



Advanced Validation Labs, Inc.

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Intel PCSD Server Memory Compatibility Test Certificate	
Test System: Intel D50TNP (Tennessee Pass)	Test Result: Pass

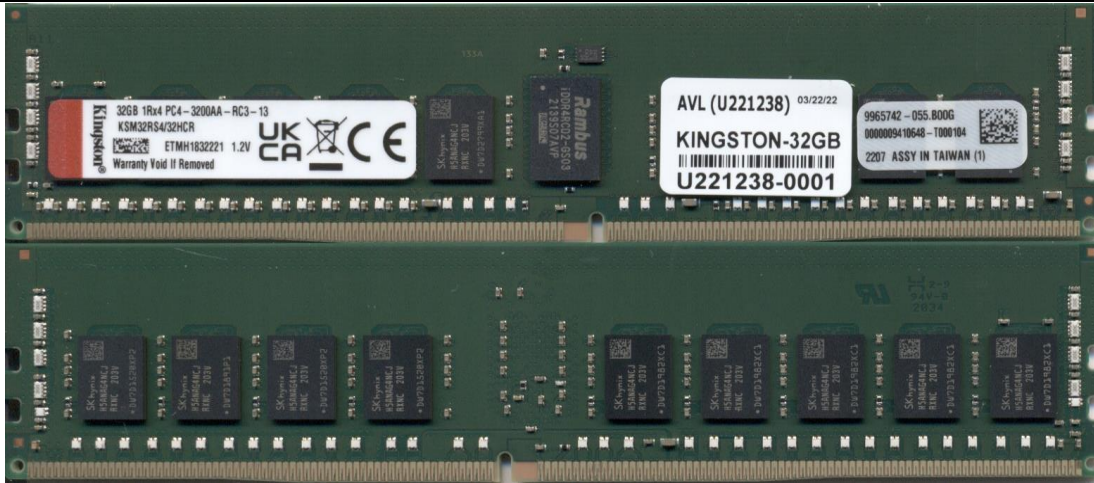
Leveraged System(s):

Modules Information									
DIMM Vendor	DIMM Part Number	Type	Voltage	Size	Config.	Speed	CL	R/C	Rank
Kingston	KSM32RS4/32HCR	RDIMM	1.2V	32GB	4Gx72	3200	22	C3	SR
DRAM Vendor	DRAM Part Number	DRAM Density / Width / Date Code		Register Vendor / Rev.		DIMM Composition			
SK Hynix	H5ANAG4NCJR-XNC	16Gb	4096Mx4bit	2203	Rambus	B0	(4096Mx4)*72		

System Configuration		
SETUP	System #1	System #2
AVL S/N	N/A	N/A
System S/N	BQTN11600470	BQTN11790162
Board Rev. (PBA)	M39437-001	M39473-001
CPU Type	1.8 Ghz	1.8 Ghz
Chipset	Intel 62X Series	
BIOS	1020.P37	1020.P37
BMC / ME	2.85 / 04.01.04.58	
FUR/SDR	0.36	
OS	Windows Server 2019 Datacenter	
Test Tool	iVSS 2.9.2, SELViewer, Syscfg, SHC v 4.2.1	

Testing Summary		
Test Items	Test Description	Test Results
1. BIOS Configuration check	Record memory Size and Speed detection	Done
2. SPD Check	Check for JEDEC compliance	Pass
3. Memory Stress 4 Corner Test @ 6 Hours each Corner	Max Load: (High / Low VDD -- 0C / 40C)	Pass
	Min Load: (High / Low VDD -- 0C / 40C)	Pass
4. Power Cycle Test @ 50 Cycles each Corner	Max Load: (High / Low VDD -- 0C / 40C)	Pass
	Min Load: (High / Low VDD -- 0C / 40C)	Pass
5. SHC	iMunch (MAX Load)	Pass
	TSL (MAX Load)	Done
6. RMT Test	Max Load Normal VDD - 1x1x3	Pass

Memory Module Image



AVL USE ONLY:							
Completed by:	Andy Chang	Completion Date:	5/25/2022	AVL A#	U221238	AVL W/O	WG1517
Comments:							

RMT Results														
Summary	RxDqs-	RxDqs+	RxV-	Rxv+	TxDq-	TxDq+	TxV-	TxV+	Cmd-	Cmd+	CmdV-	CmdV+	Ctl-	Ctl+
Whitley DDR4-3200 Quick Analysis Guideline	10	10	11	11	10	10	10	10	19	19	12	12	19	19
Worst Case	16	14	20	22	16	16	17	18	41	37	38	39	52	53