



### Advanced Validation Labs, Inc.

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Intel PCSD Server Memory Compatibility Test Certificate	
Test System: <b>Intel D50TNP (Tennessee Pass)</b>	Test Result: <b>Pass</b>

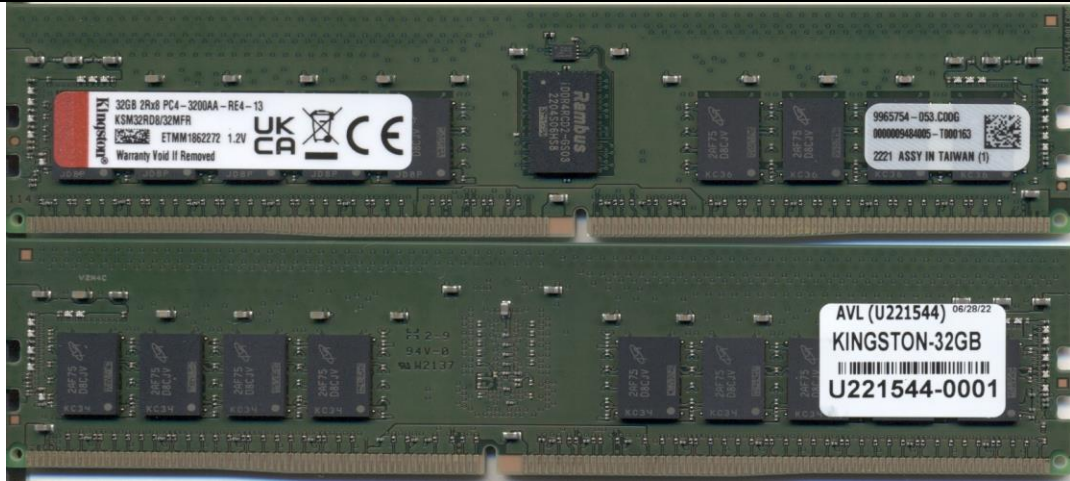
Leveraged System(s):

Modules Information									
DIMM Vendor	DIMM Part Number	Type	Voltage	Size	Config.	Speed	CL	R/C	Rank
Kingston	KSM32RD8/32MFR	RDIMM	1.2V	32GB	4Gx72	3200	22	E4	DR
DRAM Vendor	DRAM Part Number	DRAM Density / Width / Date Code			Register Vendor / Rev.		DIMM Composition		
Micron	MT40A2G8SA-062E:F	16Gb	2048Mx8bit	2202	Rambus	B0	(2048Mx8)*2*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	iWVSS 2.9.2, SELViewer, Syscfg, SHC 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 Nominal VDD - 1x1x3	Pass

#### Memory Module Image



AVL USE ONLY:							
Completed by:	Andy Chang	Completion Date:	8/10/2022	AVL A#	U221544	AVL W/O	WG1974
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	14	14	18	17	13	14	14	15	39	36	40	37	50	55