



Advanced Validation Labs, Inc.

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| Intel PCSD Server Memory Compatibility Test Certificate | |
|---|--------------------------|
| Test System: Intel S2600ST (SawTooth Pass) | Test Result: Pass |

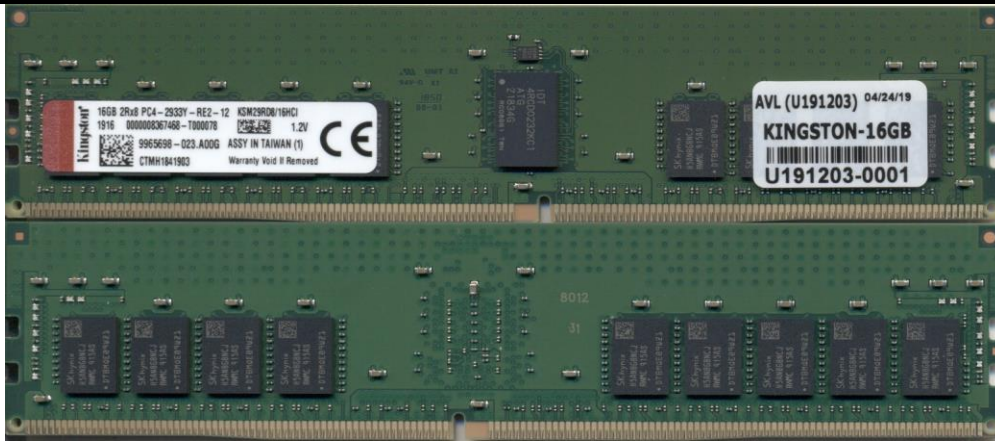
Leveraged System(s): BBS2600STQ,S2600ST,S2600STB,S2600STQ

| Modules Information | | | | | | | | | |
|---------------------|------------------|----------------------------------|------------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor | DIMM Part Number | Type | Voltage | Size | Config. | Speed | CL | R/C | Rank |
| Kingston | KSM29RD8/16HCI | RDIMM | 1.2V | 16GB | 2Gx72 | 2933 | 21 | E2 | DR |
| DRAM Vendor | DRAM Part Number | DRAM Density / Width / Date Code | | | Register Vendor / Rev. | | DIMM Composition | | |
| SK Hynix | H5AN8G8NCJR-WMC | 8Gb | 1024Mx8bit | 1915 | IDT | C1 | (1024Mx8)*2*72 | | |

| System Configuration | | |
|----------------------|---|-----------|
| SETUP | System #1 | System #2 |
| AVL S/N | H170061-001 | |
| System S/N | FWSP90120694 | |
| Board Rev. (PBA) | J17012-503 | |
| CPU Type | Intel CLX 2.20 GHz | |
| Chipset | Intel 62X Series | |
| BIOS | 0D.01.0261 | |
| BMC / ME | 1.83 / 04.01.03.237 | |
| FUR/SDR | 1.74 | |
| OS | Windows Server 2016 Standard | |
| Test Tool | iWVSS 2.8.0, 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 Hot Pass |
| 4. Memory Stress | | HVDD Cold Pass |
| 5. Memory Stress | | LVDD Hot Pass |
| 6. Memory Stress | | LVDD Cold Pass |
| Note: | | |

Memory Module Image



| AVL USE ONLY: | | | | | | | |
|---------------|------------|------------------|------------|--------|---------|---------|--------|
| Completed by: | Andy Chang | Completion Date: | 07/17/2019 | AVL A# | U191203 | AVL W/O | WF2552 |
| Comments: | | | | | | | |

Test Results

| 4C Minimum Loading | | | | | |
|--------------------|--------|---------------|---|---|---|
| Start Date | | 7/9/2019 | | | |
| DIMM Voltage | | 1.22v / 1.16v | | | |
| DIMM | S/N | A | B | C | D |
| CPU1 A1 | 03-020 | P | P | P | P |
| CPU1 A2 | | | | | |
| CPU1 B1 | 03-021 | P | P | P | P |
| CPU1 C1 | 03-022 | P | P | P | P |
| CPU1 D1 | 03-023 | P | P | P | P |
| CPU1 D2 | | | | | |
| CPU1 E1 | 03-024 | P | P | P | P |
| CPU1 F1 | 03-025 | P | P | P | P |
| CPU2 G1 | 04-003 | P | P | P | P |
| CPU2 G2 | | | | | |
| CPU2 H1 | 04-004 | P | P | P | P |
| CPU2 I1 | 04-005 | P | P | P | P |
| CPU2 J1 | 04-006 | P | P | P | P |
| CPU2 J2 | | | | | |
| CPU2 K1 | 04-007 | P | P | P | P |
| CPU2 L1 | 04-008 | P | P | P | P |

| 4C Maximum Loading | | | | | |
|--------------------|--------|---------------|---|---|---|
| Start Date | | 07/09/19 | | | |
| DIMM Voltage | | 1.22v / 1.16v | | | |
| DIMM | S/N | A | B | C | D |
| CPU1 A1 | 03-018 | P | P | P | P |
| CPU1 A2 | 03-019 | P | P | P | P |
| CPU1 B1 | 03-020 | P | P | P | P |
| CPU1 C1 | 03-021 | P | P | P | P |
| CPU1 D1 | 03-022 | P | P | P | P |
| CPU1 D2 | 03-023 | P | P | P | P |
| CPU1 E1 | 03-024 | P | P | P | P |
| CPU1 F1 | 03-025 | P | P | P | P |
| CPU2 G1 | 04-001 | P | P | P | P |
| CPU2 G2 | 04-002 | P | P | P | P |
| CPU2 H1 | 04-003 | P | P | P | P |
| CPU2 I1 | 04-004 | P | P | P | P |
| CPU2 J1 | 04-005 | P | P | P | P |
| CPU2 J2 | 04-006 | P | P | P | P |
| CPU2 K1 | 04-007 | P | P | P | P |
| CPU2 L1 | 04-008 | P | P | P | P |