



Advanced Validation Labs, Inc.

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| Intel PCSD Server Memory Compatibility Test Certificate | |
|---|--------------------------|
| Test System: Intel S2600KP (Kennedy Pass) | Test Result: Pass |

Leveraged System(s): N/A

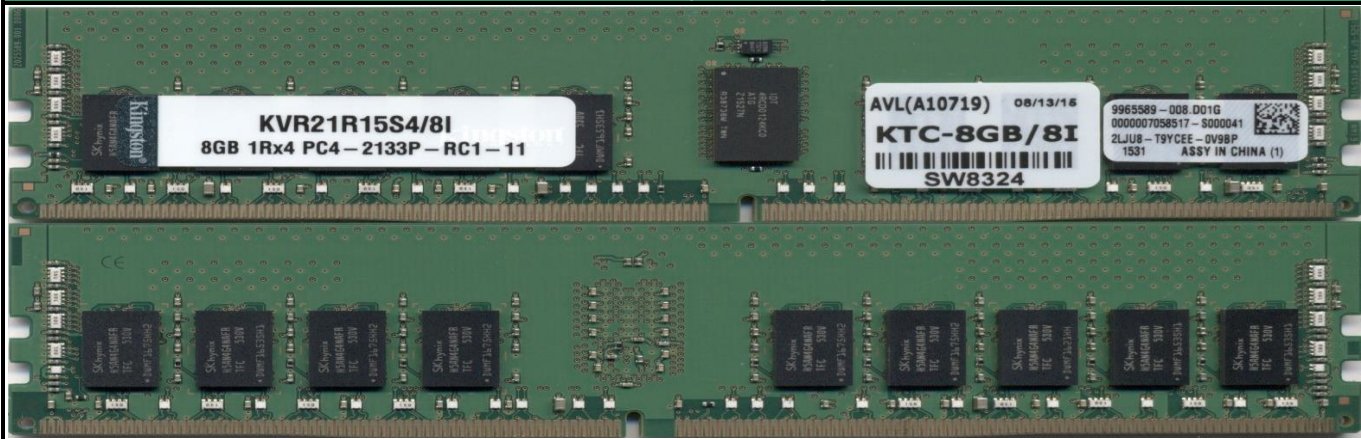
| Modules Information | | | | | | | | | |
|---------------------|------------------|----------------------------------|------------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor | DIMM Part Number | Type | Voltage | Size | Config. | Speed | CL | R/C | Rank |
| Kingston | KVR21R15S4/8I | RDIMM | 1.2V | 8GB | 1Gx72 | 2133 | 15 | C | SR |
| DRAM Vendor | DRAM Part Number | DRAM Density / Width / Date Code | | | Register Vendor / Rev. | | DIMM Composition | | |
| Kingston | H5AN4G4NAFR-TFC | 4Gb | 1024Mx4bit | 1530 | IDT | A | (1024Mx4)*72 | | |

| Leveraged Memory Modules | | | | | | |
|--------------------------|------------------|---------|------|-------|------|--|
| Vendor | Type | Voltage | CL | Speed | | |
| 1 Kingston | KVR21R15S4K4/32I | RDIMM | 1.2V | 15 | 2133 | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

| System Configuration | | |
|----------------------|---|---------------------|
| SETUP | System #1 | System #2 |
| AVL S/N | SU9568 | SU9569 |
| System S/N | BQKP42400310 / LVPP | BQKP42400473 / HVPP |
| Board Rev. (PBA) | H13888-301 | |
| CPU Type | E5-2650 v3 / 2.30 GHz | |
| Chipset | C610 | |
| BIOS / Date | 01.01.0009 / 06/01/2015 | |
| BMC / ME | 01.28.8586 / 03.00.07.168 | |
| FUR/SDR | 1.09 | |
| OS | Windows Server 2012 R2 | |
| Test Tool | iWVSS 2.6.1, 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/HVPP Hot Pass |
| 4. Memory Stress | | HVDD/HVPP Cold Pass |
| 5. Memory Stress | | LVDD/LVPP Hot Pass |
| 6. Memory Stress | | LVDD/LVPP Cold Pass |
| Note: | | |

Memory Module Image



| AVL USE ONLY: | | | | | | | |
|---------------|------------|------------------|----------|--------|--------|---------|--------|
| Completed by: | Andy Chang | Completion Date: | 08/17/15 | AVL A# | A10719 | AVL W/O | WD4034 |
| Comments: | | | | | | | |

Test Results

| 4C | | | | | | |
|-----------------|--------|-----------|---|---|---|--|
| Maximum Loading | | | | | | |
| Start Date | | 8/14/2015 | | | | |
| DIMM Voltage | | 1.22v | | | | |
| DIMM VPP | | 2.64v | | | | |
| DIMM | S/N | A | B | C | D | |
| CPU1 A1 | SW8361 | P | P | P | P | |
| CPU1 B1 | SW8362 | P | P | P | P | |
| CPU1 C1 | SW8363 | P | P | P | P | |
| CPU1 D1 | SW8364 | P | P | P | P | |
| CPU2 E1 | SW8365 | P | P | P | P | |
| CPU2 F1 | SW8366 | P | P | P | P | |
| CPU2 G1 | SW8367 | P | P | P | P | |
| CPU2 H1 | SW8368 | P | P | P | P | |

| 4C | | | | | | |
|-----------------|--------|-----------|---|---|---|--|
| Maximum Loading | | | | | | |
| Start Date | | 8/14/2015 | | | | |
| DIMM Voltage | | 1.16v | | | | |
| DIMM VPP | | 2.422v | | | | |
| DIMM | S/N | E | F | G | H | |
| CPU1 A1 | SW8369 | P | P | P | P | |
| CPU1 B1 | SW8370 | P | P | P | P | |
| CPU1 C1 | SW8371 | P | P | P | P | |
| CPU1 D1 | SW8372 | P | P | P | P | |
| CPU2 E1 | SW8373 | P | P | P | P | |
| CPU2 F1 | SW8374 | P | P | P | P | |
| CPU2 G1 | SW8375 | P | P | P | P | |
| CPU2 H1 | SW8376 | P | P | P | P | |