



Advanced Validation Labs, Inc.

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| Intel PCSD Server Memory Compatibility Test Certificate | |
|---|--------------------------|
| Test System: Intel S1200V3RP (Rainbow Pass) | Test Result: Pass |

Leveraged System(s): N/A

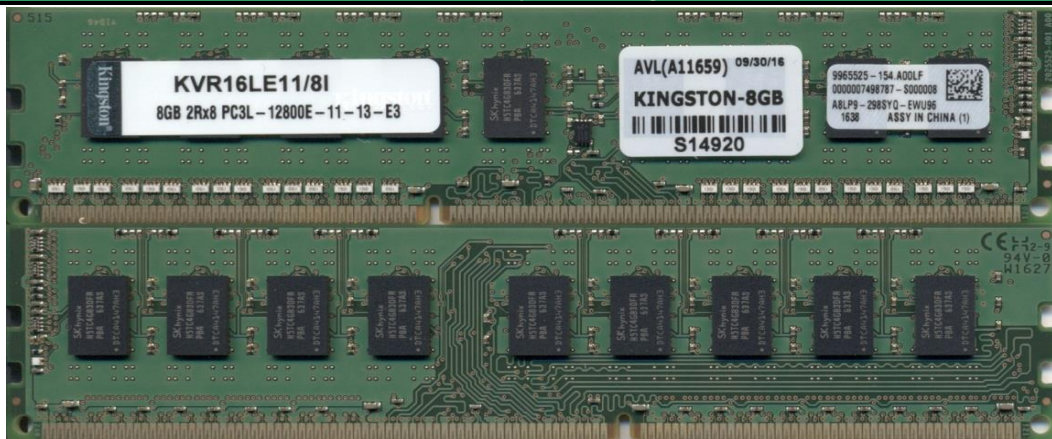
| Module Information | | | | | | | | | |
|--------------------|------------------|----------------------------------|-----------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor | DIMM Part Number | Type | Voltage | Size | Config. | Speed | CL | R/C | Rank |
| Kingston | KVR16LE11/8I | UDIMM ECC | 1.35V | 8GB | 1Gx72 | 1600 | 11 | E | DR |
| DRAM Vendor | DRAM Part Number | DRAM Density / Width / Date Code | | | Register Vendor / Rev. | | DIMM Composition | | |
| Hynix | H5TC4G83DFR-PBA | 4Gb | 512Mx8bit | 1637 | | | (512Mx8)x2*72 | | |

| Leveraged Memory Modules | | | | | | |
|--------------------------|----------|-----------------|-----------|---------|----|-------|
| | Vendor | | Type | Voltage | CL | Speed |
| 1 | Kingston | KVR16LE11K3/24I | UDIMM ECC | 1.35V | 11 | 1600 |
| 2 | Kingston | KVR16LE11K4/32I | UDIMM ECC | 1.35V | 11 | 1600 |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

| System Configuration | | |
|----------------------|---|--------------|
| SETUP | System #1 | System #2 |
| AVL S/N | SR1459 | SR1458 |
| System S/N | BQRP24500153 | BQRP24500001 |
| Board Rev. (PBA) | G62251-201 | |
| CPU Type | E3-1275 v3 Haswell / 3.5 GHz C-0 | |
| Chipset | Intel C222 | |
| BIOS / Date | 01.03.0002 | |
| BMC / ME | 1.04.4674 / 03.00.04.209 | |
| FUR/SDR | 1.04 | |
| OS | Win2K8 Enterprise R2 64bit SP1 | |
| Test Tool | iwVSS 2.5.3 , SELViewer, PvMode2, 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: | 10/26/2016 | AVL A# | A11659 | AVL W/O | WD6965 |
| Comments: | | | | | | | |

Test Results

| 4C | | | | | |
|-----------------|--------|------------|---|---|---|
| Minimum Loading | | | | | |
| Start Date | | 10/13/2016 | | | |
| DIMM Voltage | | 1.35v | | | |
| DIMM | S/N | A | B | C | D |
| CPU1 A1 | A14924 | P | P | P | P |
| CPU1 B1 | | | | | |
| CPU1 C1 | S14925 | P | P | P | P |
| CPU1 D1 | | | | | |

| 4C | | | | | |
|------------------|--------|----------|---|---|---|
| Maximume Loading | | | | | |
| Start Date | | 10/12/16 | | | |
| DIMM Voltage | | 1.35v | | | |
| DIMM | S/N | A | B | C | D |
| CPU1 A1 | S14920 | P | P | P | P |
| CPU1 B1 | S14921 | P | P | P | P |
| CPU1 C1 | S14922 | P | P | P | P |
| CPU1 D1 | S14923 | P | P | P | P |

