



Advanced Validation Labs, Inc.
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Intel PCSD Server Memory Compatibility Test Certificate

| | |
|--|--------------------------|
| Test System: Intel S2400SC (Swift Current Pass) | Test Result: Pass |
|--|--------------------------|

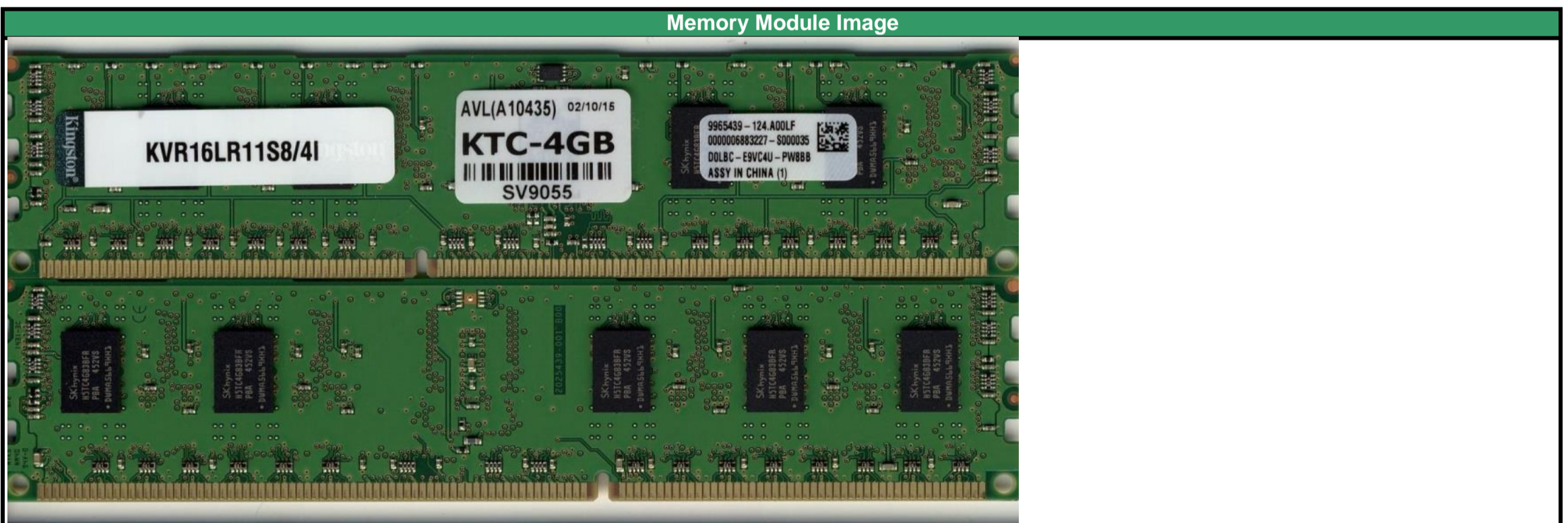
Leveraged System(s): Intel S2400EP (Eagle Pass)

| Module Information | | | | | | | | | |
|--------------------|------------------|----------------------------------|-----------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor | DIMM Part Number | Type | Voltage | Size | Config. | Speed | CL | R/C | Rank |
| Kingston | KVR16LR11S8/4I | RDIMM | 1.35V | 4GB | 512Mx72 | 1600 | 11 | A | SR |
| DRAM Vendor | DRAM Part Number | DRAM Density / Width / Date Code | | | Register Vendor / Rev. | | DIMM Composition | | |
| Hynix | HTC4G83BFR-PBA | 4Gb | 512Mx8bit | 1452 | IDT | A | (512Mx8)*72 | | |

| Leveraged Memory Modules | | | | | | |
|--------------------------|----------|-------------------|---------|-------|-------|------|
| | Vendor | Type | Voltage | CL | Speed | |
| 1 | Kingston | KVR16LR11S8K3/12I | RDIMM | 1.35V | 11 | 1600 |
| 2 | Kingston | KVR16LR11S8K4/16I | RDIMM | 1.35V | 11 | 1600 |
| 3 | Kingston | KVR16R11S8/4I | RDIMM | 1.5V | 11 | 1600 |
| 4 | Kingston | KVR16R11S8K3/12I | RDIMM | 1.5V | 11 | 1600 |
| 5 | Kingston | KVR16R11S8K4/16I | RDIMM | 1.5V | 11 | 1600 |
| 6 | | | | | | |

| System Configuration | | |
|----------------------|---|--------------|
| SETUP | System #1 | System #2 |
| AVL S/N | SN7956 | SN7957 |
| System S/N | AZSP14400039 | AZSP14400044 |
| Board Rev. (PBA) | G18552-301 | |
| CPU Type | E5-2470 v2 / 2.3 GHz | |
| Chipset | Intel C602 | |
| BIOS / Date | 02.03.0003 / 04/19/2014 | |
| BMC / ME | 01.21.6038 / 02.01.07.328 | |
| FUR/SDR | 1.10 | |
| OS | Windows 2008 Enterprise R2 64bit SP1 | |
| Test Tool | iWVSS 2.5.3, SELViewer, Pvmode2, Syscfg, WinPIRA, MemPuller | |

| 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: | | |



| AVL USE ONLY: | | | | | | | |
|---------------|------------|------------------|----------|--------|--------|---------|--------|
| Completed by: | Andy Chang | Completion Date: | 02/26/15 | AVL A# | A10435 | AVL W/O | WD3202 |
| Comments: | | | | | | | |

Test Results

| 4C | | | | | |
|-----------------|--------|-----------|---|---|---|
| Minimum Loading | | | | | |
| Start Date | | 2/17/2015 | | | |
| DIMM Voltage | | 1.5v | | | |
| DIMM | S/N | A | B | C | D |
| CPU1 A1 | SV9105 | P | P | P | P |
| CPU1 B1 | SV9106 | P | P | P | P |
| CPU1 C1 | SV9107 | P | P | P | P |
| CPU1 C2 | | | | | |
| CPU1 D1 | SV9108 | P | P | P | P |
| CPU2 E1 | SV9109 | P | P | P | P |
| CPU2 F1 | SV9155 | P | P | P | P |
| CPU2 F2 | | | | | |

| 4C | | | | | |
|-----------------|--------|----------|---|---|---|
| Maximum Loading | | | | | |
| Start Date | | 02/20/15 | | | |
| DIMM Voltage | | 1.5v | | | |
| DIMM | S/N | A | B | C | D |
| CPU1 A1 | SV9105 | P | P | P | P |
| CPU1 B1 | SV9106 | P | P | P | P |
| CPU1 C1 | SV9107 | P | P | P | P |
| CPU1 C2 | SV9108 | P | P | P | P |
| CPU1 D1 | SV9109 | P | P | P | P |
| CPU2 E1 | SV9110 | P | P | P | P |
| CPU2 F1 | SV9142 | P | P | P | P |
| CPU2 F2 | SV9159 | P | P | P | P |

| 4C | | | | | |
|-----------------|--------|-----------|---|---|---|
| Minimum Loading | | | | | |
| Start Date | | 2/20/2015 | | | |
| DIMM Voltage | | 1.35v | | | |
| DIMM | S/N | E | F | G | H |
| CPU1 A1 | SV9105 | P | P | P | P |
| CPU1 B1 | SV9106 | P | P | P | P |
| CPU1 C1 | SV9107 | P | P | P | P |
| CPU1 C2 | | | | | |
| CPU1 D1 | SV9108 | P | P | P | P |
| CPU2 E1 | SV9109 | P | P | P | P |
| CPU2 F1 | SV9110 | P | P | P | P |
| CPU2 F2 | | | | | |

| 4C | | | | | |
|-----------------|--------|----------|---|---|---|
| Maximum Loading | | | | | |
| Start Date | | 02/12/15 | | | |
| DIMM Voltage | | 1.35v | | | |
| DIMM | S/N | E | F | G | H |
| CPU1 A1 | SV9055 | P | P | P | P |
| CPU1 B1 | SV9056 | P | P | P | P |
| CPU1 C1 | SV9057 | P | P | P | P |
| CPU1 C2 | SV9058 | P | P | P | P |
| CPU1 D1 | SV9059 | P | P | P | P |
| CPU2 E1 | SV9060 | P | P | P | P |
| CPU2 F1 | SV9061 | P | P | P | P |
| CPU2 F2 | SV9062 | P | P | P | P |