



**Advanced Validation Labs, Inc.**

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

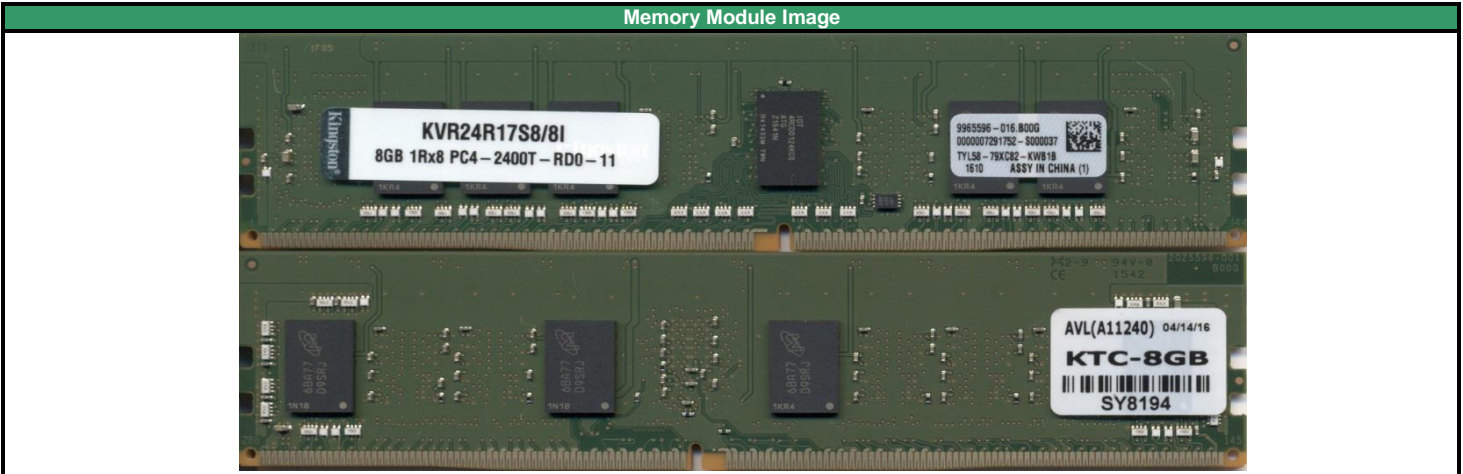
Leveraged System(s): H2216xxKR2,H2312xxKR2,HNS2600KP,HNS2600KPF,HNS2600KPFRR,HNS2600KPR,S2600KP,S2600KPF,S2600KPFRR,S2600KPR,S2600KPT,S2600KPTR

| Modules Information |                   |                                  |            |      |                        |       |                  |     |      |
|---------------------|-------------------|----------------------------------|------------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor         | DIMM Part Number  | Type                             | Voltage    | Size | Config.                | Speed | CL               | R/C | Rank |
| Kingston            | KVR24R17S8/8I     | RDIMM                            | 1.2V       | 8GB  | 1Gx72                  | 2400  | 17               | D   | SR   |
| DRAM Vendor         | DRAM Part Number  | DRAM Density / Width / Date Code |            |      | Register Vendor / Rev. |       | DIMM Composition |     |      |
| Micron              | MT40A1G8PM-083E-A | 8Gb                              | 1024Mx8bit | 1604 | IDT                    | B     | (1024Mx8)*72     |     |      |

| Leveraged Memory Modules |                  |         |      |       |      |  |
|--------------------------|------------------|---------|------|-------|------|--|
| Vendor                   | Type             | Voltage | CL   | Speed |      |  |
| 1 Kingston               | KVR24R17S8K4/32I | RDIMM   | 1.2V | 17    | 2400 |  |
| 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             | E5-2660 v4 / 2.0 GHz                    |                     |
| Chipset              | C610                                    |                     |
| BIOS / Date          | 01.01.0015 / 01-28-2016                 |                     |
| BMC / ME             | 01.43.9685 / 03.01.03.021               |                     |
| FUR/SDR              | 1.13                                    |                     |
| 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:  |  |                     |



| AVL USE ONLY: |            |                  |          |        |        |         |        |
|---------------|------------|------------------|----------|--------|--------|---------|--------|
| Completed by: | Andy Chang | Completion Date: | 04/29/16 | AVL A# | A11240 | AVL W/O | WD5713 |
| Comments:     |            |                  |          |        |        |         |        |

Test Results

| 4C              |        |           |   |   |   |  |
|-----------------|--------|-----------|---|---|---|--|
| Maximum Loading |        |           |   |   |   |  |
| Start Date      |        | 4/19/2016 |   |   |   |  |
| DIMM Voltage    |        | 1.22v     |   |   |   |  |
| DIMM VPP        |        | 2.64v     |   |   |   |  |
| DIMM            | S/N    | A         | B | C | D |  |
| CPU1 A1         | SY8235 | P         | P | P | P |  |
| CPU1 B1         | SY8236 | P         | P | P | P |  |
| CPU1 C1         | SY8237 | P         | P | P | P |  |
| CPU1 D1         | SY8238 | P         | P | P | P |  |
| CPU2 E1         | SY8239 | P         | P | P | P |  |
| CPU2 F1         | SY8240 | P         | P | P | P |  |
| CPU2 G1         | SY8241 | P         | P | P | P |  |
| CPU2 H1         | SY8242 | P         | P | P | P |  |

| 4C              |        |           |   |   |   |  |
|-----------------|--------|-----------|---|---|---|--|
| Maximum Loading |        |           |   |   |   |  |
| Start Date      |        | 4/19/2016 |   |   |   |  |
| DIMM Voltage    |        | 1.16v     |   |   |   |  |
| DIMM VPP        |        | 2.422v    |   |   |   |  |
| DIMM            | S/N    | E         | F | G | H |  |
| CPU1 A1         | SY8227 | P         | P | P | P |  |
| CPU1 B1         | SY8228 | P         | P | P | P |  |
| CPU1 C1         | SY8229 | P         | P | P | P |  |
| CPU1 D1         | SY8230 | P         | P | P | P |  |
| CPU2 E1         | SY8231 | P         | P | P | P |  |
| CPU2 F1         | SY8232 | P         | P | P | P |  |
| CPU2 G1         | SY8233 | P         | P | P | P |  |
| CPU2 H1         | SY8234 | P         | P | P | P |  |