



**Advanced Validation Labs, Inc.**

17665B Newhope Street, Fountain Valley, CA 92708 (714) 435-2630



**Intel PCSD Server Memory Compatibility Test Certificate**

Test System: **Intel S2600KP (Kennedy Pass)** Test Result: **Pass**

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    | KVR24R17D4/32I    | RDIMM                            | 1.2V       | 32GB | 2Gx72                  | 2400  | 17               | B   | DR   |
| DRAM Vendor | DRAM Part Number  | DRAM Density / Width / Date Code |            |      | Register Vendor / Rev. |       | DIMM Composition |     |      |
| Micron      | MT40A2G4PM-083E:A | 8Gb                              | 2048Mx4bit | 1604 | IDT                    | A     | (2048Mx4)*2*72   |     |      |

**Leveraged Memory Modules**

| Vendor     | Type              | Voltage | CL   | Speed   |
|------------|-------------------|---------|------|---------|
| 1 Kingston | KVR24R17D4K4/128I | 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:  |  |                     |

**Memory Module Image**



**AVL USE ONLY:**

|               |            |                  |          |        |        |         |        |
|---------------|------------|------------------|----------|--------|--------|---------|--------|
| Completed by: | Andy Chang | Completion Date: | 05/09/16 | AVL A# | A11242 | AVL W/O | WD5722 |
|---------------|------------|------------------|----------|--------|--------|---------|--------|

Comments:

Test Results

| 4C              |        |           |   |   |   |  |
|-----------------|--------|-----------|---|---|---|--|
| Maximum Loading |        |           |   |   |   |  |
| Start Date      |        | 4/21/2016 |   |   |   |  |
| DIMM Voltage    |        | 1.22v     |   |   |   |  |
| DIMM VPP        |        | 2.64v     |   |   |   |  |
| DIMM            | S/N    | A         | B | C | D |  |
| CPU1 A1         | SY8294 | P         | P | P | P |  |
| CPU1 B1         | SY8295 | P         | P | P | P |  |
| CPU1 C1         | SY8296 | P         | P | P | P |  |
| CPU1 D1         | SY8297 | P         | P | P | P |  |
| CPU2 E1         | SY8298 | P         | P | P | P |  |
| CPU2 F1         | SY8299 | P         | P | P | P |  |
| CPU2 G1         | SY8300 | P         | P | P | P |  |
| CPU2 H1         | SY8301 | P         | P | P | P |  |

| 4C              |        |           |   |   |   |  |
|-----------------|--------|-----------|---|---|---|--|
| Maximum Loading |        |           |   |   |   |  |
| Start Date      |        | 4/21/2016 |   |   |   |  |
| DIMM Voltage    |        | 1.16v     |   |   |   |  |
| DIMM VPP        |        | 2.422v    |   |   |   |  |
| DIMM            | S/N    | E         | F | G | H |  |
| CPU1 A1         | SY8302 | P         | P | P | P |  |
| CPU1 B1         | SY8303 | P         | P | P | P |  |
| CPU1 C1         | SY8304 | P         | P | P | P |  |
| CPU1 D1         | SY8305 | P         | P | P | P |  |
| CPU2 E1         | SY8306 | P         | P | P | P |  |
| CPU2 F1         | SY8307 | P         | P | P | P |  |
| CPU2 G1         | SY8308 | P         | P | P | P |  |
| CPU2 H1         | SY8309 | P         | P | P | P |  |