



### Advanced Validation Labs, Inc.

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| Intel PCSD Server Memory Compatibility Test Certificate |                          |
|---|--------------------------|
| Test System: <b>Intel S2600TP (Taylor Pass)</b>         | Test Result: <b>Pass</b> |

Leveraged System(s): S2600TPNR, HNS2600TP, HNS2600TP24R, HNS2600TP24SR, HNS2600TPF, HNS2600TPFR, HNS2600TPNR, HNS2600TPR, S2600TP, S2600TPF, S2600TPFR, S2600TPR

| Modules Information |                  |                                  |            |      |                        |       |                  |     |      |
|---------------------|------------------|----------------------------------|------------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor         | DIMM Part Number | Type                             | Voltage    | Size | Config.                | Speed | CL               | R/C | Rank |
| Kingston            | KVR24R17S4/16L   | RDIMM                            | 1.2V       | 16GB | 2Gx72                  | 2400  | 17               | C   | SR   |
| DRAM Vendor         | DRAM Part Number | DRAM Density / Width / Date Code |            |      | Register Vendor / Rev. |       | DIMM Composition |     |      |
| Hynix               | H5AN8G4NAFR-UHC  | 8Gb                              | 2048Mx4bit | 1704 | IDT                    | A     | (2048Mx4)*72     |     |      |

| Leveraged Memory Modules |             |                  |         |      |       |      |
|--------------------------|-------------|------------------|---------|------|-------|------|
| Vendor                   | Part Number | Type             | Voltage | CL   | Speed | Rank |
| 1                        | Kingston    | KVR24R17S4K4/64L | RDIMM   | 1.2V | 17    | 2400 |
| 2                        |             |                  |         |      |       |      |
| 3                        |             |                  |         |      |       |      |
| 4                        |             |                  |         |      |       |      |
| 5                        |             |                  |         |      |       |      |
| 6                        |             |                  |         |      |       |      |

| System Configuration |   |                     |
|----------------------|---|---------------------|
| SETUP                | System #1                               | System #2           |
| AVL S/N              | SU9574                                  | SU9575              |
| System S/N           | BQTP42700005 / LVPP                     | BQTP42700200 / HVPP |
| Board Rev. (PBA)     | H26989-202                              |                     |
| CPU Type             | E5-2690 v4 / 2.60 GHz                   |                     |
| Chipset              | C610                                    |                     |
| BIOS / Date          | 01.01.0015 / 01-28-2016                 |                     |
| BMC / ME             | 01.43.9685 / 03.01.03.021               |                     |
| FUR/SDR              | 1.14                                    |                     |
| 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  |
| 4. Memory Stress                             |  | HVDD/HVPP Cold |
| 5. Memory Stress                             |  | LVDD/LVPP Hot  |
| 6. Memory Stress                             |  | LVDD/LVPP Cold |
| Note:  |  |                |

#### Memory Module Image



| AVL USE ONLY: |                  |        |         |  |  |  |  |
|---------------|------------------|--------|---------|--|--|--|--|
| Completed by: | Completion Date: | AVL A# | AVL W/O |  |  |  |  |
| Andy Chang    | 07/21/2017       | A12087 | WD8167  |  |  |  |  |
| Comments:     |                  |        |         |  |  |  |  |

Test Results

| 4C              |        |                |   |   |   |
|-----------------|--------|----------------|---|---|---|
| Minimum Loading |        |                |   |   |   |
| Start Date      |        | 7/5/2017       |   |   |   |
| DIMM Voltage    |        | 1.22v / 1.16v  |   |   |   |
| DIMM VPP        |        | 2.64v / 2.422v |   |   |   |
| DIMM            | S/N    | A              | B | C | D |
| CPU1 A1         | S27863 | P              | P | P | P |
| CPU1 A2         |        |                |   |   |   |
| CPU1 B1         | S27864 | P              | P | P | P |
| CPU1 B2         |        |                |   |   |   |
| CPU1 C1         | S27865 | P              | P | P | P |
| CPU1 C2         |        |                |   |   |   |
| CPU1 D1         | S27866 | P              | P | P | P |
| CPU1 D2         |        |                |   |   |   |
| CPU2 E1         | S27867 | P              | P | P | P |
| CPU2 E2         |        |                |   |   |   |
| CPU2 F1         | S27868 | P              | P | P | P |
| CPU2 F2         |        |                |   |   |   |
| CPU2 G1         | S27870 | P              | P | P | P |
| CPU2 G2         |        |                |   |   |   |
| CPU2 H1         | S27862 | P              | P | P | P |
| CPU2 H2         |        |                |   |   |   |

| 4C              |        |                |   |   |   |
|-----------------|--------|----------------|---|---|---|
| Maximum Loading |        |                |   |   |   |
| Start Date      |        | 07/05/17       |   |   |   |
| DIMM Voltage    |        | 1.22v / 1.16v  |   |   |   |
| DIMM VPP        |        | 2.64v / 2.422v |   |   |   |
| DIMM            | S/N    | A              | B | C | D |
| CPU1 A1         | S27837 | P              | P | P | P |
| CPU1 A2         | S27838 | P              | P | P | P |
| CPU1 B1         | S27839 | P              | P | P | P |
| CPU1 B2         | S27840 | P              | P | P | P |
| CPU1 C1         | S27841 | P              | P | P | P |
| CPU1 C2         | S27842 | P              | P | P | P |
| CPU1 D1         | S27843 | P              | P | P | P |
| CPU1 D2         | S27844 | P              | P | P | P |
| CPU2 E1         | S27845 | P              | P | P | P |
| CPU2 E2         | S27846 | P              | P | P | P |
| CPU2 F1         | S27847 | P              | P | P | P |
| CPU2 F2         | S27848 | P              | P | P | P |
| CPU2 G1         | S27854 | P              | P | P | P |
| CPU2 G2         | S27857 | P              | P | P | P |
| CPU2 H1         | S27858 | P              | P | P | P |
| CPU2 H2         | S27859 | P              | P | P | P |