



### Advanced Validation Labs, Inc.

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| Intel PCSD Server Memory Compatibility Test Certificate |                          |
|---|--------------------------|
| Test System: <b>Intel S2600WF (Wolf Pass)</b>           | Test Result: <b>Pass</b> |

Leveraged System(s): R1208WFTYS, R1304WF, R1304WF0YS, R1304WFTYS, R2000WF, R2208WF0ZS, R2208WFTZS, R2224WFTZS, R2308WFTZS, R2312WF0NP, R2312WFTZS, S2600WF0, S2600WFQ, S2600WFT

| Modules Information |                  |                                  |            |      |                        |       |                  |     |      |
|---------------------|------------------|----------------------------------|------------|------|------------------------|-------|------------------|-----|------|
| DIMM Vendor         | DIMM Part Number | Type                             | Voltage    | Size | Config.                | Speed | CL               | R/C | Rank |
| Kingston            | KSM24RD8/16HAI   | RDIMM                            | 1.2V       | 16GB | 2Gx72                  | 2400  | 17               | E   | DR   |
| DRAM Vendor         | DRAM Part Number | DRAM Density / Width / Date Code |            |      | Register Vendor / Rev. |       | DIMM Composition |     |      |
| SK Hynix            | H5AN8G8NAFR-UHC  | 8Gb                              | 1024Mx8bit | 1717 | IDT                    | C0    | (1024Mx8)*2*72   |     |      |

| System Configuration |   |              |
|----------------------|---|--------------|
| SETUP                | System #1                               | System #2    |
| AVL S/N              | WP390                                   | WP305        |
| System S/N           | BQWF71100390                            | BQWF71100305 |
| Board Rev. (PBA)     | H87179-710                              |              |
| CPU Type             | Platinum 8170 M / 2.10 GHz              |              |
| Chipset              | C610                                    |              |
| BIOS                 | 0X.01.0038                              |              |
| BMC / ME             | 1.22 / 04.00.03.219                     |              |
| FUR/SDR              | 1.22                                    |              |
| OS                   | Windows Server 2016 Standard            |              |
| Test Tool            | iWVSS 2.7.0, 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 Hot <b>Pass</b>  |
| 4. Memory Stress                             |  | HVDD Cold <b>Pass</b> |
| 5. Memory Stress                             |  | LVDD Hot <b>Pass</b>  |
| 6. Memory Stress                             |  | LVDD Cold <b>Pass</b> |
| Note:  |  |                       |

#### Memory Module Image



| AVL USE ONLY: |            |                  |            |        |         |         |        |
|---------------|------------|------------------|------------|--------|---------|---------|--------|
| Completed by: | Andy Chang | Completion Date: | 11/09/2017 | AVL A# | U171118 | AVL W/O | WF0167 |
| Comments:     |            |                  |            |        |         |         |        |

Test Results

| 4C              |         |               |   |   |   |
|-----------------|---------|---------------|---|---|---|
| Minimum Loading |         |               |   |   |   |
| Start Date      |         | 10/24/2017    |   |   |   |
| DIMM Voltage    |         | 1.22v / 1.16v |   |   |   |
| DIMM            | S/N     | A             | B | C | D |
| CPU1 A1         | 18-0001 | P             | P | P | P |
| CPU1 A2         |         |               |   |   |   |
| CPU1 B1         | 18-0002 | P             | P | P | P |
| CPU1 B2         |         |               |   |   |   |
| CPU1 C1         | 18-0003 | P             | P | P | P |
| CPU1 C2         |         |               |   |   |   |
| CPU1 D1         | 18-0004 | P             | P | P | P |
| CPU1 D2         |         |               |   |   |   |
| CPU2 E1         | 18-0005 | P             | P | P | P |
| CPU2 E2         |         |               |   |   |   |
| CPU2 F1         | 18-0006 | P             | P | P | P |
| CPU2 F2         |         |               |   |   |   |
| CPU2 G1         | 19-0001 | P             | P | P | P |
| CPU2 G2         |         |               |   |   |   |
| CPU2 H1         | 19-0002 | P             | P | P | P |
| CPU2 H2         |         |               |   |   |   |
| CPU2 I1         | 19-0003 | P             | P | P | P |
| CPU2 I2         |         |               |   |   |   |
| CPU2 J1         | 19-0004 | P             | P | P | P |
| CPU2 J2         |         |               |   |   |   |
| CPU2 K1         | 19-0005 | P             | P | P | P |
| CPU2 K2         |         |               |   |   |   |
| CPU2 L1         | 19-0006 | P             | P | P | P |
| CPU2 L2         |         |               |   |   |   |

| 4C              |         |               |   |   |   |
|-----------------|---------|---------------|---|---|---|
| Maximum Loading |         |               |   |   |   |
| Start Date      |         | 10/24/17      |   |   |   |
| DIMM Voltage    |         | 1.22v / 1.16v |   |   |   |
| DIMM            | S/N     | A             | B | C | D |
| CPU1 A1         | 18-0001 | P             | P | P | P |
| CPU1 A2         | 18-0002 | P             | P | P | P |
| CPU1 B1         | 18-0003 | P             | P | P | P |
| CPU1 B2         | 18-0004 | P             | P | P | P |
| CPU1 C1         | 18-0005 | P             | P | P | P |
| CPU1 C2         | 18-0006 | P             | P | P | P |
| CPU1 D1         | 18-0007 | P             | P | P | P |
| CPU1 D2         | 18-0008 | P             | P | P | P |
| CPU2 E1         | 18-0009 | P             | P | P | P |
| CPU2 E2         | 18-0010 | P             | P | P | P |
| CPU2 F1         | 18-0011 | P             | P | P | P |
| CPU2 F2         | 18-0012 | P             | P | P | P |
| CPU2 G1         | 19-0001 | P             | P | P | P |
| CPU2 G2         | 19-0002 | P             | P | P | P |
| CPU2 H1         | 19-0003 | P             | P | P | P |
| CPU2 H2         | 19-0004 | P             | P | P | P |
| CPU2 I1         | 19-0005 | P             | P | P | P |
| CPU2 I2         | 19-0006 | P             | P | P | P |
| CPU2 J1         | 19-0007 | P             | P | P | P |
| CPU2 J2         | 19-0008 | P             | P | P | P |
| CPU2 K1         | 19-0009 | P             | P | P | P |
| CPU2 K2         | 19-0010 | P             | P | P | P |
| CPU2 L1         | 19-0011 | P             | P | P | P |
| CPU2 L2         | 19-0012 | P             | P | P | P |