

# SMART Memory Test Lab Report



| MOTHERBOARD | MANUFACTURER | CHIPSET    | TEST NUMBER | TEST STATUS |
|-------------|--------------|------------|-------------|-------------|
| S5520URT    | INTEL        | INTEL 5520 | SMTL0069    | PASS        |

### Module Information

|                       |                     |                   |                          |
|-----------------------|---------------------|-------------------|--------------------------|
| Manufacturer Name:    | SMART MODULAR TECH  | Module Type:      | DDR3 REGISTERED ECC DIMM |
| Manufacturer P/N:     | SG1027RV351293-HB   | CAS Latency:      | C999                     |
| Memory Capacity:      | 8GB                 | Assembly Type:    | SINGLE BOARD NON STACKED |
| Module Configuration: | 6 PER CPU /12 TOTAL | Low Profile:      | NO                       |
| DRAM Supplier:        | HYNIX               | Register P/N:     | IDT IDTSSTE32882 HLBKAG  |
| DRAM Part Number:     | H5TC2G43BFR-H9A     | PLL P/N:          | N/A                      |
| PCB Part Number:      | 1012-4FC            | Dual Die Package: | MONOLITHIC               |
| PCB Layer Count:      | 8                   | Comment:          |                          |

### MINIMUM SYSTEM INFORMATION

|                 |                          |
|-----------------|--------------------------|
| System Name:    | S5520URT                 |
| Serial Number:  | V906MP0318 R             |
| BIOS Version:   | AMI S5500.86B.01.00.0049 |
| Processor Code: | INTEL XEON X5670         |
| OS Memory Size: | 48GB                     |
| OS Version:     | LINUX SMP 2.6.28.10      |
| Test Version:   | HPL XLINPAK 10.2.3 MKL   |
| Comment:        |                          |

### MAXIMUM SYSTEM INFORMATION

|                 |                          |
|-----------------|--------------------------|
| System Name:    | S5520URT                 |
| Serial Number:  | V906MP0318 R             |
| BIOS Version:   | AMI S5500.86B.01.00.0049 |
| Processor Code: | INTEL XEON X5670         |
| OS Memory Size: | 96GB                     |
| OS Version:     | LINUX SMP 2.6.28.10      |
| Test Version:   | HPL XLINPAK 10.2.3.MKL   |
| Comment:        |                          |

### PRE-TESTING INFORMATION

|                               |           |
|-------------------------------|-----------|
| Board Revision:               |           |
| Insertion Test:               | PASS      |
| SPD Check:                    | PASS      |
| DDR Speed Check:              | PASS      |
| Boot Time:                    | 1 MIN     |
| <b>Voltage Margining Info</b> |           |
| Volt %                        | +/-3%     |
| Volt Low                      | 1.31 volt |
| Volt High                     | 1.39 volt |

### TESTING DETAILS FOR VOLT LOW

|                  |     |       |            |
|------------------|-----|-------|------------|
| Temperature:     | 55C | Time: | 12HRS      |
| Start Date:      |     |       | 11/29/2010 |
| Stop Date:       |     |       | 12/1/2010  |
| HPL Test Status: |     |       | PASS       |
| DDR Speed:       |     |       | 1333MHz    |
| Summary Min:     |     |       | P          |
| Summary Max:     |     |       | P          |
| Test Status:     |     |       | PASS       |

### TESTING DETAILS FOR VOLT HIGH

|                  |     |       |            |
|------------------|-----|-------|------------|
| Temperature:     | 55C | Time: | 12HRS      |
| Start Date:      |     |       | 11/30/2010 |
| Stop Date:       |     |       | 12/2/2010  |
| HPL Test Status: |     |       | PASS       |
| DDR Speed:       |     |       | 1333MHz    |
| Summary Min:     |     |       | P          |
| Summary Max:     |     |       | X P        |
| Test Status:     |     |       | PASS       |

### Serial Number List

|                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|
| 1) SFR2010061036148  | 2) SFR2010061036150  | 3) SFR2010061036141  | 4) SFR2010061036149  |
| 5) SFR2010061036146  | 6) SFR2010061036142  | 7) SFR2010061036147  | 8) SFR2010061036143  |
| 9) SFR2010061036153  | 10) SFR2010061036152 | 11) SFR2010061036145 | 12) SFR2010061036140 |
| 13) SFR2010061036144 | 14) SFR2010061036151 | 15)                  | 16)                  |

### CONTACT INFORMATION

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Test Traveler Notes:

VERIFICATION

Verified by: Jim Schwarz

Test Technician: Mark Durand

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