

Netlist Memory CMTL Certification

HyperStream™ Memory with Intel® Xeon® Motherboards

This document contains a summary listing and detailed reports of HyperStream Memory modules that were tested and certified by CMTL. Included in this document are:

- List of Memory Modules/motherboard combinations Page 1
- Summary table of test data Page 2
- Attachments: Detailed CMTL reports Pages 3 - 14

List of HyperStream memory and Intel motherboard test combinations.

<u>Density</u>	<u>Netlist Part Number</u>	<u>Intel Motherboard(s)</u>
8GB	HS8R002	MFS5520VI, MFSS520VI
8GB	HS8R002	S5500HV, S5500HVR
8GB	HS8R002	S5500WB, S5500WBR
8GB	HS8R002	S5520HC, S5520HCV/S
8GB	HS8R002	S5520SC, S5520SCR
8GB	HS8R002	S5520UR, S5520URR
4GB	HS4R002	S5500BC, S5500BCR
4GB	HS4R002	S5500WB, S5500WBR
4GB	HS4R002	S5520HC, S5520HCV/S
4GB	HS4R002	S5500HV, S5500HVR
4GB	HS4R002	S5520UR, S5520URR
4GB	HS4R002	S5520SC, S5520SCR
4GB	HS4R002	MFS5520VI, MFSS520VI

Memory Testing by CMTL

The CMTL Memory Module Certification Program allows computer memory manufacturers to submit their modules for advanced compatibility testing on motherboards from the industry's leading manufacturers. Modules, which pass CMTL's rigorous incoming inspection, and advanced testing criteria, are then awarded recognition as a CMTL Certified Memory Module, and can use the CMTL Certified Memory seal.

Memory modules that have completed all the testing phases under the CMTL Memory Module Certification process are known to be compatible with the motherboards on which they were tested, and will be listed as "Certified" on the CMTL website.

Memory Certification from CMTL

Every CMTL Certified Memory module is put through extensive incoming inspection and advanced compatibility testing to eliminate most incompatibly risks. The memory certification process requires the module to be advanced tested for compatibility in any one of the available motherboards from multiple motherboard manufacturers using a variety of processors and chipsets to ensure compatibility. Only modules that pass this in-depth set of checks and tests can receive the CMTL seal of compatibility, this is your guarantee of a quality memory module.



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Summary Table of Test Data

The following chart list the tests conducted by CMTL with different configurations for different Netlist memory products. Each line represents a passed test with the respective motherboards and processors, and listed configuration.


HyperStream DDR3 RDIMM Memory

Test #	Density	Netlist Part Number	Intel Motherboard(s)	Intel Xeon Processor	Min DPC	Min Config Memory Size	Min Config Memory Speed	Max DPC	Max Config	Max Config Memory Speed
017844	8GB	HS8R002	MFS5520VI MFS5520VI	X5560	1	49,152MB	1333MHz	2	98,304MB	1066MHz
017846	8GB	HS8R002	S5500HV S5500HVR	X5570	1	49,144MB	1333MHz	2	98,296MB	1066MHz
017847	8GB	HS8R002	S5500WB S5500WBR	X5667	1	49,152MB	1333MHz	1*	65,536MB	1333MHz
017848	8GB	HS8R002	S5520HC S5520HCV/S	X5677	1	49,152MB	1333MHz	2	98,304MB	1333MHz
017849	8GB	HS8R002	S5520SC S5520SCR	X5677	1	49,152MB	1333MHz	2	98,304MB	1333MHz
017850	8GB	HS8R002	S5520UR S5520URR	X5677	1	49,152MB	1333MHz	2	98,304MB	1333MHz
017885	4GB	HS4R002	S5500BC S5500BCR	X5667	1	16,384MB	1333MHz	2	32,768MB	1333MHz
017886	4GB	HS4R002	S5500WB S5500WBR	X5667	1	24,576MB	1333MHz	1*	32,768MB	1333MHz
017887	4GB	HS4R002	S5520HC S5520HCV/S	X5677	1	24,568MB	1333MHz	2	49,152MB	1333MHz
017888	4GB	HS4R002	S5500HV S5500HVR	X5577	1	24,568MB	1333MHz	2	49,152MB	1333MHz
017889	4GB	HS4R002	S5520UR S5520URR	X5667	1	24,576MB	1333MHz	2	49,152MB	1333MHz
017890	4GB	HS4R002	S5520SC S5520SCR	X5677	1	24,576MB	1333MHz	2	49,152MB	1333MHz
017891	4GB	HS4R002	MFS5520VI MFS5520VI	X5560	1	24,576MB	1333MHz	2	49,152MB	1066MHz

* 1DPC system with 1MCH on each processor mirrored

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
FS5520VI/MFS5520V	Intel	Intel® 5520	017844	PASSED

MODULE INFORMATION		Module ID: NET058
		
Manufacturer Name:	Netlist, Inc.	
Part #:	HS8R002	
MB:	8GB	Cas Latency: 9
Config:	1024M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3514	Register Part #:
PCB Part:	PCB 0463	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

MINIMUM SYSTEM INFORMATION Minimum System: MFS5520VI/MFS5520VI Serial Number: BZVI91300193 Bios at time of test: S5500.86B.01.10.0048 Processor Code: Inter® Xeon® X55600, @ 2.80GHz, Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Seagate Savvio 36GB	MAXIMUM SYSTEM INFORMATION Maximum System: MFS5520VI/MFS5520VI Serial Number: BZVI91300148 Bios at time of test: S5500.86B.01.10.0048 Processor Code: Inter® Xeon® X55600, @ 2.80GHz, Memory Count : 98304MB Event Log Verify: Clear OS Memory Count: 95.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Seagate Savvio® 36GB
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<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E41515-401	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: N/A	Start Date: 12/1/10	Start Date: 12/1/10
Speed Check: Pass	Stop Date: 12/8/10	Stop Date: 12/8/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
Voltage Margining Info Volt % +/-3% Volt Low 1.45 volt Volt High 1.55 volt	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors
 QTY:


<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: AnnualProgram
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1066MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
S5500HV/S5500HVR	Intel	Intel® 5500	017846	PASSED

<u>MODULE INFORMATION</u>			Module ID: NET058
Manufacturer Name:	Netlist, Inc.		
Part #:	HS8R002		
MB:	8GB	Cas Latency:	9
Config:	1024M x 72	Assembly:	Single Board/Non St
DRAM:	Netlist	Low Profile:	Yes
DRAM Part #:	NL3514	Register Part #:	
PCB Part:	PCB 0463	PLL Part #:	
PCB_layer_count:	8 Layer	Dual Die Package Support	<input type="checkbox"/> Bank
Module Info:	Registered ECC	1333MHz DDR3 DIM	Environment Code RoHS

<u>MINIMUM SYSTEM INFORMATION</u>		<u>MAXIMUM SYSTEM INFORMATION</u>	
Minimum System:	S5500HV/S5500HVR		
Serial Number:	BTHY92200002		
Bios at time of test:	0115		
Processor Code:	Inter® Xeon® X55700, @ 2.93GHz,		
Memory Count :	49144MB		
Event Log Verify:	Clear		
OS Memory Count:	48G		
OS/Service Pack:	N/A	N/A	N/A
Software Pack::	Proprietary		
Disk Manuf:	N/A		

<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E69114-001	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: N/A	Start Date: 12/23/10	Start Date: 12/23/10
Speed Check: Memtest v2.11	Stop Date: 12/27/10	Stop Date: 12/27/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

<u>Voltage Margining Info</u>	
Volt %	+/-3%
Volt Low	1.45 volt
Volt High	1.55 volt

Single Bit Errors
 QTY:


<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: AnnualProgram
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1066MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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MOTHERBOARD	MANUFACTURER	CHIPSET	TEST NUMBER	TEST STATUS
S5500WB/S5500WBR	Intel	Intel® 5500	017847	PASSED

MODULE INFORMATION			Module ID: NET058
Manufacturer Name:	Netlist, Inc.		
Part #:	HS8R002		
MB:	8GB	Cas Latency:	9
Config:	1024M x 72	Assembly:	Single Board/Non St
DRAM:	Netlist	Low Profile:	Yes
DRAM Part #:	NL3514	Register Part #:	
PCB Part:	PCB 0463	PLL Part #:	
PCB_layer_count:	8 Layer	Dual Die Package Support	<input type="checkbox"/> Bank
Module Info:	Registered ECC	1333MHz DDR3 DIM	Environment Code RoHS

<p>MINIMUM SYSTEM INFORMATION</p> <p>Minimum System: S5500WB/S5500WBR Serial Number: AZWK91000090 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5667 @ 3.06GHz, 6. Memory Count : 49152 MB Event Log Verify: Clear OS Memory Count: 47.9 GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>	<p>MAXIMUM SYSTEM INFORMATION</p> <p>Maximum System: S5500WB/S5500WBR Serial Number: AZWK91000116 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5667 @ 3.06GHz, 6. Memory Count : 65536 MB Event Log Verify: Clear OS Memory Count: 63.9 GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>
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PRE-TESTING INFORMATION	TESTING DETAILS FOR PHASE 2	TESTING DETAILS FOR PHASE 3
Board Revision: E48472-302	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: N/A	Start Date: 12/27/2010	Start Date: 12/27/2010
Speed Check: Pass	Stop Date: 12/30/2010	Stop Date: 12/30/2010
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
<p style="text-align: center;">Voltage Margining Info</p> <p>Volt % +/- 3%</p> <p>Volt Low 1.45 volt</p> <p>Volt High 1.55 volt</p>	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors

QTY:

VENDOR CONTACT INFORMATION		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: AnnualProgram


Test Traveler Notes:	CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz	Verified by:
	Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
S520HCV/S5520HCR/	Intel	Intel® 5520	017848	PASSED

MODULE INFORMATION		Module ID: NET058
		
Manufacturer Name:	Netlist, Inc.	
Part #:	HS8R002	
MB:	8GB	Cas Latency: 9
Config:	1024M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3514	Register Part #:
PCB Part:	PCB 0463	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

MINIMUM SYSTEM INFORMATION Minimum System: S5520HC/S5520HCV/S Serial Number: QSHN91200034 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6 Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB	MAXIMUM SYSTEM INFORMATION Maximum System: S5520HC/S5520HCV/S Serial Number: QSHN91200071 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6. Memory Count : 98304MB Event Log Verify: Clear OS Memory Count: 95.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB
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<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E26045-406	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: N/A	Start Date: 11/23/10	Start Date: 11/23/10
Speed Check: Pass	Stop Date: 12/1/10	Stop Date: 12/1/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
Voltage Margining Info Volt % +/-3% Volt Low 1.45 volt Volt High 1.55 volt	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors
 QTY:

<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: AnnualProgram


Test Traveler Notes:	CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz	Verified by:
	Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
S5520SC/S5520SCR	Intel	Intel® 5520	017849	PASSED

MODULE INFORMATION		Module ID: NET058
		
Manufacturer Name:	Netlist, Inc.	
Part #:	HS8R002	
MB:	8GB	Cas Latency: 9
Config:	1024M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3514	Register Part #:
PCB Part:	PCB 0463	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

MINIMUM SYSTEM INFORMATION Minimum System: S5520SC/S5520SCR Serial Number: QSHN91200034 Bios at time of test: S5500.86B.01.00.0050 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6 Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB	MAXIMUM SYSTEM INFORMATION Maximum System: S5520SC/S5520SCR Serial Number: QSHN91200071 Bios at time of test: S5500.86B.01.00.0050 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6. Memory Count : 98304MB Event Log Verify: Clear OS Memory Count: 95.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB
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<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E26045-406	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: N/A	Start Date: 11/23/10	Start Date: 11/23/10
Speed Check: Pass	Stop Date: 12/1/10	Stop Date: 12/1/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
Voltage Margining Info Volt % +/-3% Volt Low 1.45 volt Volt High 1.55 volt	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors
 QTY:


<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: AnnualProgram
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
S5520UR/S5520URR	Intel	Intel® 5520	017850	PASSED

<u>MODULE INFORMATION</u>		Module ID: NET058
		
Manufacturer Name:	Netlist, Inc.	
Part #:	HS8R002	
MB:	8GB	Cas Latency: 9
Config:	1024M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3514	Register Part #:
PCB Part:	PCB 0463	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

<u>MINIMUM SYSTEM INFORMATION</u> Minimum System: S5520UR/S5520URR Serial Number: BZUB90600740 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6 Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB	<u>MAXIMUM SYSTEM INFORMATION</u> Maximum System: S5520UR/S5520URR Serial Number: BZUB90600717 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6. Memory Count : 98304MB Event Log Verify: Clear OS Memory Count: 95.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB
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<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E22554-601	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: N/A	Start Date: 12/8/10	Start Date: 12/8/10
Speed Check: Pass	Stop Date: 12/13/10	Stop Date: 12/13/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
<u>Voltage Margining Info</u> Volt % +/- 3% Volt Low 1.45 volt Volt High 1.55 volt	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors
 QTY:


<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: AnnualProgram
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

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CMTL Advanced Final Report

MOTHERBOARD	MANUFACTURER	CHIPSET	TEST NUMBER	TEST STATUS
S5500BC/S5500BCR	Intel	Intel® 5500	017885	PASSED

MODULE INFORMATION			Module ID: NET059
Manufacturer Name:	Netlist, Inc.		
Part #:	HS4R002		
MB:	4GB	Cas Latency:	9
Config:	512M x 72	Assembly:	Single Board/Non St
DRAM:	Netlist	Low Profile:	Yes
DRAM Part #:	NL3258	Register Part #:	
PCB Part:	PCB 0505	PLL Part #:	
PCB_layer_count:	8 Layer	Dual Die Package Support	<input type="checkbox"/> Bank 2
Module Info:	Registered ECC	1333MHz DDR3 DIM	Environment Code RoHS

<p>MINIMUM SYSTEM INFORMATION</p> <p>Minimum System: S5500BC/S5500BCR Serial Number: BZBZ90200204 Bios at time of test: S5500.86B.01.00.0048 Processor Code: Intel® Xeon® X5667 @ 3.06GHz, 6. Memory Count : 16384 MB Event Log Verify: Clear OS Memory Count: 15.9 GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>	<p>MAXIMUM SYSTEM INFORMATION</p> <p>Maximum System: S5500BC/S5500BCR Serial Number: BZBZ90200251 Bios at time of test: S5500.86B.01.00.0048 Processor Code: Intel® Xeon® X5667 @ 3.06GHz, 6. Memory Count : 32768 MB Event Log Verify: Clear OS Memory Count: 31.9 GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>
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PRE-TESTING INFORMATION	TESTING DETAILS FOR PHASE 2	TESTING DETAILS FOR PHASE 3
Board Revision: E25124-403	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: Pass	Start Date: 12/28/2010	Start Date: 12/28/2010
Speed Check: Pass	Stop Date: 12/30/2010	Stop Date: 12/30/2010
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
<p style="text-align: center;">Voltage Margining Info</p> <p>Volt % +/-3%</p> <p>Volt Low 1.45 volt</p> <p>Volt High 1.55 volt</p>	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors

QTY:


VENDOR CONTACT INFORMATION		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXMLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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MOTHERBOARD	MANUFACTURER	CHIPSET	TEST NUMBER	TEST STATUS
S5500WB/S5500WBR	Intel	Intel® 5500	017886	PASSED

MODULE INFORMATION		Module ID: NET059
		
Manufacturer Name:	Netlist, Inc.	
Part #:	HS4R002	
MB:	4GB	Cas Latency: 9
Config:	512M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3258	Register Part #:
PCB Part:	PCB 0505	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank 2
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

<p>MINIMUM SYSTEM INFORMATION</p> <p>Minimum System: S5500WB/S5500WBR Serial Number: AZWK91000090 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5667 @ 3.06GHz, 6. Memory Count : 24576MB Event Log Verify: Clear OS Memory Count: 23.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>	<p>MAXIMUM SYSTEM INFORMATION</p> <p>Maximum System: S5500WB/S5500WBR Serial Number: AZWK91000116 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5667 @ 3.06GHz, 6. Memory Count : 32768MB Event Log Verify: Clear OS Memory Count: 31.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>
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PRE-TESTING INFORMATION	TESTING DETAILS FOR PHASE 2	TESTING DETAILS FOR PHASE 3
Board Revision: E48472-302	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: Pass	Start Date: 12/23/10	Start Date: 12/23/10
Speed Check: Pass	Stop Date: 12/27/10	Stop Date: 12/27/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
<p style="text-align: center;">Voltage Margining Info</p> <p>Volt % +/- 3%</p> <p>Volt Low 1.45 volt</p> <p>Volt High 1.55 volt</p>	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors

QTY:


VENDOR CONTACT INFORMATION		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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MOTHERBOARD	MANUFACTURER	CHIPSET	TEST NUMBER	TEST STATUS
S520HCV/S5520HCR/	Intel	Intel® 5520	017887	PASSED

MODULE INFORMATION		Module ID: NET059
		
Manufacturer Name: Netlist, Inc.		
Part #: HS4R002		
MB: 4GB	Cas Latency: 9	
Config: 512M x 72	Assembly: Single Board/Non St	
DRAM: Netlist	Low Profile: Yes	
DRAM Part #: NL3258	Register Part #:	
PCB Part: PCB 0505	PLL Part #:	
PCB_layer_count: 8 Layer	Dual Die Package Support <input type="checkbox"/> Bank 2	
Module Info: Registered ECC	1333MHz DDR3 DIM	Environment Code RoHS

<p>MINIMUM SYSTEM INFORMATION</p> <p>Minimum System: S5520HC/S5520HCV/S Serial Number: QSHN91200034 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6 Memory Count : 24568MB Event Log Verify: Clear OS Memory Count: 23.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>	<p>MAXIMUM SYSTEM INFORMATION</p> <p>Maximum System: S5520HC/S5520HCV/S Serial Number: QSHN91200071 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6. Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB</p>
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PRE-TESTING INFORMATION	TESTING DETAILS FOR PHASE 2	TESTING DETAILS FOR PHASE 3
Board Revision: E26045-406	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: Pass	Start Date: 1/11/11	Start Date: 1/11/11
Speed Check: Pass	Stop Date: 1/17/11	Stop Date: 1/17/11
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

Single Bit Errors

QTY:


VENDOR CONTACT INFORMATION		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage margining applied only to those systems that are applicable.)

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
S5500HV/S5500HVR	Intel	Intel® 5500	017888	PASSED

MODULE INFORMATION			Module ID: NET059
Manufacturer Name:	Netlist, Inc.		
Part #:	HS4R002		
MB:	4GB	Cas Latency:	9
Config:	512M x 72	Assembly:	Single Board/Non St
DRAM:	Netlist	Low Profile:	Yes
DRAM Part #:	NL3258	Register Part #:	
PCB Part:	PCB 0505	PLL Part #:	
PCB_layer_count:	8 Layer	Dual Die Package Support	<input type="checkbox"/> Bank 2
Module Info:	Registered ECC	1333MHz DDR3 DIM	Environment Code RoHS

MINIMUM SYSTEM INFORMATION		MAXIMUM SYSTEM INFORMATION	
Minimum System:	S5500HV/S5500HVR	Maximum System:	S5500HV/S5500HVR
Serial Number:	BTHY92200002	Serial Number:	BTHY92200003
Bios at time of test:	0115	Bios at time of test:	0115
Processor Code:	Inter® Xeon® X5570, @ 2.93GHz, 6	Processor Code:	Inter® Xeon® X5570, @ 2.93GHz, 6.
Memory Count :	24568 MB	Memory Count :	49144 MB
Event Log Verify:	Clear	Event Log Verify:	Clear
OS Memory Count:	24 GB	OS Memory Count:	49 GB
OS/Service Pack:	N/A	OS/Service Pack:	N/A
Software Pack::	Proprietary	Software Pack::	Proprietary
Disk Manuf:	N/A	Disk Manuf:	N/A

<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E69114-001	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: Pass	Start Date: 2/9/2011	Start Date: 2/9/2011
Speed Check: Memtest v2.11	Stop Date: 2/11/2011	Stop Date: 2/11/2011
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status: Pass	Test Phase Status: Pass

<u>Voltage Margining Info</u>	
Volt %	+/-3%
Volt Low	1.45 volt
Volt High	1.55 volt

Single Bit Errors
 QTY:


<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1066MHz		Verified by:
		Emailed by:

Test Technician: Raji Tannouri

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

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<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
S5520UR/S5520URR	Intel	Intel® 5520	017889	PASSED

MODULE INFORMATION		Module ID: NET059
		
Manufacturer Name:	Netlist, Inc.	
Part #:	HS4R002	
MB:	4GB	Cas Latency: 9
Config:	512M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3258	Register Part #:
PCB Part:	PCB 0505	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank 2
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

MINIMUM SYSTEM INFORMATION Minimum System: S5520UR/S5520URR Serial Number: BZUB90600740 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6 Memory Count : 24576MB Event Log Verify: Clear OS Memory Count: 23.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB	MAXIMUM SYSTEM INFORMATION Maximum System: S5520UR/S5520URR Serial Number: BZUB90600717 Bios at time of test: S5500.86B.01.00.0054 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6. Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB
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<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E22554-601	Temperature: 55°C	Temperature: 55°C
Insertion Test: Pass	Time: 12Hr	Time: 12Hr
SPD Check: Pass	Start Date: 12/16/10	Start Date: 12/16/10
Speed Check: Pass	Stop Date: 12/22/10	Stop Date: 12/22/10
Power Cycle Stat: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Time: 50	Max Test Status: Pass	Max Test Status: Pass
Voltage Margining Info Volt % +/- 3% Volt Low 1.45 volt Volt High 1.55 volt	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status Pass	Test Phase Status Pass

Single Bit Errors
 QTY:

<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), FXLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

CMTL Advanced Final Report

MOTHERBOARD	MANUFACTURER	CHIPSET	TEST NUMBER	TEST STATUS
S5520SC/S5520SCR	Intel	Intel® 5520	017890	PASSED

MODULE INFORMATION		Module ID: NET059
Manufacturer Name:	Netlist, Inc.	
Part #:	HS4R002	
MB:	4GB	Cas Latency: 9
Config:	512M x 72	Assembly: Single Board/Non St
DRAM:	Netlist	Low Profile: Yes
DRAM Part #:	NL3258	Register Part #:
PCB Part:	PCB 0505	PLL Part #:
PCB_layer_count:	8 Layer	Dual Die Package Support <input type="checkbox"/> Bank 2
Module Info:	Registered ECC	1333MHz DDR3 DIM Environment Code RoHS

MINIMUM SYSTEM INFORMATION Minimum System: S5520SC/S5520SCR Serial Number: QSHN91200034 Bios at time of test: S5500.86B.01.00.0050 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6 Memory Count : 24576MB Event Log Verify: Clear OS Memory Count: 23.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB	MAXIMUM SYSTEM INFORMATION Maximum System: S5520SC/S5520SCR Serial Number: QSHN91200071 Bios at time of test: S5500.86B.01.00.0050 Processor Code: Intel® Xeon® X5677, @ 3.47GHz, 6. Memory Count : 49152MB Event Log Verify: Clear OS Memory Count: 47.9GB OS/Service Pack: Window 2003 64bit SP2 Software Pack:: Proprietary Disk Manuf: Hitachi SATA 80GB
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PRE-TESTING INFORMATION	TESTING DETAILS FOR PHASE 2	TESTING DETAILS FOR PHASE 3
Board Revision: E26045-406 Insertion Test: Pass SPD Check: Pass Speed Check: Pass Power Cycle Stat: Pass Power Cycle Time: 50 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Voltage Margining Info Volt % +/-3% Volt Low 1.45 volt Volt High 1.55 volt </div>	Temperature: 55°C Time: 12Hr Start Date: 1/11/11 Stop Date: 1/17/11 Min Test Status: Pass Max Test Status: Pass SEL Min: Pass SEL Max: Pass Summary Min: Pass Summary Max: Pass Test Phase Status: Pass	Temperature: 55°C Time: 12Hr Start Date: 1/11/11 Stop Date: 1/17/11 Min Test Status: Pass Max Test Status: Pass SEL Min: Pass SEL Max: Pass Summary Min: Pass Summary Max: Pass Test Phase Status: Pass

Single Bit Errors
 QTY:


VENDOR CONTACT INFORMATION		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1333MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

In the event of a module failure, CMTL is not required to provide root cause analysis. Accuracy of testing is restricted to the above mentioned module with specific DRAM, PCB and other components as listed and tested with the CMTL Memory Compatibility Functionality Test, Microsoft Advanced Server 2000®, Windows NT 4.0 Enterprise Edition®, Windows XP®, Windows 98 SE®, Dos 6.22®, MSTRESS® (v x.x), XLINEAR® (v x.xx), Patin® (v x.x), WinMTA® (v x.xx). (Voltage marganing applied only to those systems that are applicable.)

CMTL Advanced Final Report

<u>MOTHERBOARD</u>	<u>MANUFACTURER</u>	<u>CHIPSET</u>	<u>TEST NUMBER</u>	<u>TEST STATUS</u>
FS5520VI/MFS5520V	Intel	Intel® 5520	017891	PASSED

MODULE INFORMATION		Module ID: NET059
		
Manufacturer Name: Netlist, Inc.		
Part #: HS4R002		
MB: 4GB	Cas Latency: 9	
Config: 512M x 72	Assembly: Single Board/Non St	
DRAM: Netlist	Low Profile: Yes	
DRAM Part #: NL3258	Register Part #:	
PCB Part: PCB 0505	PLL Part #:	
PCB_layer_count: 8 Layer	Dual Die Package Support <input type="checkbox"/> Bank 2	
Module Info: Registered ECC	1333MHz DDR3 DIM	Environment Code RoHS

<u>MINIMUM SYSTEM INFORMATION</u>	<u>MAXIMUM SYSTEM INFORMATION</u>
Minimum System: MFS5520VI/MFS5520VI	Maximum System: MFS5520VI/MFS5520VI
Serial Number: BZVI91300193	Serial Number: BZVI91300148
Bios at time of test: S5500.86B.01.10.0048	Bios at time of test: S5500.86B.01.10.0048
Processor Code: Inter® Xeon® X55600, @ 2.80GHz,	Processor Code: Inter® Xeon® X55600, @ 2.80GHz,
Memory Count : 24576MB	Memory Count : 49152MB
Event Log Verify: Clear	Event Log Verify: Clear
OS Memory Count: 23.9GB	OS Memory Count: 47.9GB
OS/Service Pack: Window 2003 64bit SP2	OS/Service Pack: Window 2003 64bit SP2
Software Pack:: Proprietary	Software Pack:: Proprietary
Disk Manuf: Seagate Savvio 36GB	Disk Manuf: Seagate Savvio® 36GB

<u>PRE-TESTING INFORMATION</u>	<u>TESTING DETAILS FOR PHASE 2</u>	<u>TESTING DETAILS FOR PHASE 3</u>
Board Revision: E41515-401	Temperature: 55°C Time: 12Hr	Temperature: 55°C Time: 12Hr
Insertion Test: Pass	Start Date: 12/8/10	Start Date: 12/8/10
SPD Check: Pass	Stop Date: 12/13/10	Stop Date: 12/13/10
Speed Check: Pass	Min Test Status: Pass	Min Test Status: Pass
Power Cycle Stat: Pass	Max Test Status: Pass	Max Test Status: Pass
Power Cycle Time: 50	SEL Min: Pass	SEL Min: Pass
	SEL Max: Pass	SEL Max: Pass
	Summary Min: Pass	Summary Min: Pass
	Summary Max: Pass	Summary Max: Pass
	Test Phase Status Pass	Test Phase Status Pass

<u>Voltage Margining Info</u>	
Volt %	+/-3%
Volt Low	1.45 volt
Volt High	1.55 volt

Single Bit Errors
 QTY:

<u>VENDOR CONTACT INFORMATION</u>		
Contact: Devon Park	Contact Phone: 949-679-0105	Purchase Order #: Annual plan
Test Traveler Notes:		CMTL USE ONLY:
Min config memory speed ran @ 1333MHz Max config memory speed ran @ 1066MHz		Verified by:
		Emailed by:

Test Technician: Thanh Nguyen

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