### ENERGY STAR® Power and Performance Data Sheet

Model Name: MAGNIA T1340b



#### System Characteristics

Form Factor	1 socket pedestal server
Available Processor Sockets	1
Available DIMM Slots / Max Memory Capacity	4slots / 32GB max.
ECC and/or Fully Buffered DIMMs	Yes
Available Expansion Slots	3 PCI-E 2.0, 1 PCI
Minimum and Maximum # of Hard Drives	0 to 4
Redundant Power Supply Capable?	No
Power Supply Make and Model	Flextronics NQB-S-0400ADU00
Power Supply Output Rating* (watts)	400W
Minimum and Maximum # of Power Supplies	1
Input Power Range (AC or DC)	100-240VAC
Power Supply Efficiency at Specified Loadings*	88.5%@20%, 90.8%@50%, 88.5%@100%
Power Supply Power Factor at Specified Loadings*	0.950@20%, 0.990@50%, 0.999@100%
Operating Systems Supported	Microsoft Windows Server 2008 R2 Standard etc.
Installed Operating System for Testing	Microsoft Windows Server 2008 R2 Standard

<sup>\*</sup> Note: Power supply information is for a single power supply only

#### System Configurations

em Configurations	Minimum	Typical	Maximum	
Configuration ID	SYU4630C	SYU4630C	SYU4630C	
Processor Information	Intel Xeon E3-1220v2 Intel Xeon E3-1220v2 3.10GHz x1 3.10GHz x1		Intel Xeon E3-1220v2 3.10GHz x1	
Memory Information	DDR3-1600 2GB x1	DDR3-1600 8GB x2	DDR3-1600 8GB x4	
Internal Storage	SATA 6Gbps 7200rpm 250GB x1	SAS 6Gbps 10000rpm 900GB x2	SAS 6Gbps 10000rpm 900GB x4	
I/O Devices	None	SAS Raid Card x1	SAS Raid Card x1 Ethernet card x1 SAS HBA card x1	
Power Supply Number and Redundancy Configuration	NQB-S-0400ADU00 400W x1	NQB-S-0400ADU00 400W x1	NQB-S-0400ADU00 400W x1	
Management Controller or Service Processor Installed?	Yes	Yes	Yes	
Other Hardware Features / Accessories				

Power Data	Minimum	Typical	Maximum
Idle Category (1S and 2S only)	Category B: Manag	jed Single Installed Proce	essor (1P) Servers

Idle Category (1S and 2S only)	Category B: Managed Single Installed Processor (1P) Servers			
ENERGY STAR Idle Power Allowance (1S and 2S only)	65.0	193.0		
Measured Idle Power (watts)	26.7 44.9 82.2			
Power at Full Load* (watts)	51.1 70.9		109.5	
Benchmark / Method Used for Full Load Test	Use SiSoftware Sandra Engineer (.NET Multi-Media)			
Test Voltage and Frequency for Idle and Full Load Test	230V / 60Hz			
Range of Total Estimated Energy Usage ** (kWh/year)	468 to 895 0,787 to 1,242		1,440 to 1,918	
Link to Detailed Power Calculator (if available)				

Note: Full load power represents the sustained, average power at 100% load of the given workload, and does not necessarily represent the absolute peak power or the highest average, sustained power possible for other workloads.

#### Power and Performance for Benchmark #1

er and Performance for Benchmark #1	Minimum	Typical	Maximum	
Benchmark Used and Type of Workload	SiSoftware Sandra Engineer (.NET Multi-Media)			
Avg. Power Measured During Benchmark Run	51.1	70.9	109.5	
Benchmark Performance Score	15.13Mpixel/s	15.20Mpixel/s	15.32Mpixel/s	
Power Performance Ratio (perf score/avg. power)	0.30	0.21	0.14	
Link to Full Benchmark Report (Where Available)	N/A	N/A	N/A	

## Benchmark #2

Benchmark #1

Powe	r and Performance for Benchmark #2 (optional)	Minimum	Typical	Maximum
¥	Benchmark Used and Type of Workload			
ž	Avg. Power Measured During Benchmark Run			
ma	Benchmark Performance Score			
uct	Power Performance Ratio (perf score/avg. power)			
Be	Link to Full Benchmark Report (Where Available)			

<sup>\*\*</sup> Note: Estimated kWh/year gives the absolute range of energy use a user could expect from continuous operation (24x7x365) and ranges from 100% Idle usage to 100% full load operation. The calculation also includes typical data center overhead at a ratio

#### **ENERGY STAR Power and Performance Data Sheet**

Model Name: MAGNIA T1340b





er Saving Features	Enabled on Shipment	End-User Enabling Required
Processor Dynamic Voltage and Frequency Scaling	Yes	No
Processor or Core Reduced Power States	Yes	No
Power Capping	No	Yes
Variable Speed Fan Control Based on Power or Thermal Readings	Yes	No
Low Power Memory States	No	No
Low Power I/O States	No	No
Liquid Cooling Capability	No	No
Other1:		
Other2:		
Other3:		
Other4:		

#### Power and Temperature Measurement and Reporting

Input Power Available & Accuracy?	Yes, +/- 5%
Input Air Temp Available & Accuracy?	Yes, +/- 2 degree C
Processor Utilization Available?	Yes
Other Data Measurements Available & Accuracy?	
Compatible Protocols for Data Collection	IPMI
Averaging method and time period	Non Averaging, 1 sec. interval sampling

mal Information *	Minimum	Typical	Maximum
Total Power Dissipation (watts)	51.1	70.9	109.5
Delta Temperature at Exhaust at Peak Temp. (°C)	2.6	2.0	4.8
Airflow at Maximum Fan Speed (CFM) at Peak Temp.	26.6	28.2	30.1
Airflow at Nominal Fan Speed (CFM) at Nominal Temp.	21.4	22.7	25.9

\* References: ASHRAE Extended Environmental Envelope Final August 1, 2008
Thermal Guidelines for Data Processing Environments, ASHRAE, 2004, ISBN 1-931862-43-5
Peak temperature is defined as 35 °C, Nominal Tempera

#### Notes

1. SPECpower\_ssj2008 is a registered trademark of the Standard Performance Evaluation Corporation (SPEC). Benchmark results stated above reflect results published on XX/XX/XX. For the latest SPECpower\_ssj2008 benchmark results, visit http://www.spec.org

ENERGY STAR Qualified Configurations

STAR Qualified SKUs or configurations

Qualified Configuration ID: SYU4630C	STAR Qualified S	SKUS or configurati	ons	
Qualified Corniguration ID. 3104030C				

# **ENERGY STAR Power and Performance Data Sheet** Model Name: MAGNIA T1340b Page 3 of 3 ENERGY STAR Qualified Configurations (Continued) Include specific information on ENERGY STAR Qualified SKUs or configurations