# ENERGY STAR<sup>®</sup> Power and Performance Data Sheet

Model Name: MAGNIA T3350b



## System Characteristics

84GB max.
00 ECC DIMMs
t ; Max: 24units
tronics DPS-800QB A
nd 230Vac
%, 91.67@20%, 94.09@50%, 91.95@100%
%,0.96 @20%, 0.99@50%, 0.99@100%
Windows Server 2008 R2 Standard Windows Server 2008 R2 Enterprise etc.
Windows Server 2008 R2 Standard

\* Note: Power supply information is for a single power supply only

### System Configurations

em Configurations	Minimum	Typical	Maximum
Configuration ID	SYU4600A	SYU4600A	SYU4600B
Processor Information	Intel Xeon E5-2403	Intel Xeon E5-2403	Intel Xeon E5-2407
	1.80GHz x2	1.80GHz x2	2.20GHz x2
Manageria	DDR3-1600	DDR3-1600	DDR3-1600
Memory Information	2GB x2	32GB x6	32GB x12
	SATA 6Gbps 7200rpm	SAS 6Gbps 10000rpm	SAS 6Gbps 10000rpm
Internal Storage	250GB x1	900GB x3	900GB x24
			SAS Raid Card x3
I/O Devices	None	SAS Raid Card x1	SAS HBA card x1
			Ethernet card x1
Denne Oracle March and Denter damage Oracle and	Delta DPS-800QA	Delta DPS-800QA	Delta DPS-800QA
Power Supply Number and Redundancy Configuration	800W x2	800W x2	800W x2
Management Controller or Service Processor Installed?	Yes	Yes	Yes
Other Hardware Features / Accessories			

## Power Data

r Data	Minimum	Typical	Maximum
Idle Category (1S and 2S only)	Category D: Managed Dual Installed Processor (2P) Servers		
ENERGY STAR Idle Power Allowance (1S and 2S only)	150W	574W	1202W
Measured Idle Power (watts)	77.2	117.0	318.3
Power at Full Load* (watts)	100.9	139.8	352.5
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)	1,353 to 1,768	2,050 to 2,449	5,577 to 6,176
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.

\* 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 of 1 watt of overhead to every 1 watt of IT load (corresponding to a PUE of 2.0). Closer approximations may be found by using established power calculators and specific information about the intended operating environment (e.g., average time at Idle, data center PUE, etc.).

Power and Performance for Benchmark #1		Minimum	Typical	Maximum
Ħ	Benchmark Used and Type of Workload	SiSoftware Sandra Engineer (.NET Multi-Media)		
ark	Avg. Power Measured During Benchmark Run	100.9W	139.8W	352.5W
nchmé	Benchmark Performance Score	16.35Mpixel/s	16.69Mpixel/s	20.00Mpixel/s
	Power Performance Ratio (perf score/avg. power)	0.16	0.12	0.06
Be	Link to Full Benchmark Report (Where Available)	N/A	N/A	N/A

#### Power and Performance for Benchmark #2 (optional) Minimum Typical Maximum

¥	Benchmark Used and Type of Workload		
ark	Avg. Power Measured During Benchmark Run		
Ĩ	Benchmark Performance Score		
loci	Power Performance Ratio (perf score/avg. power)		
Be	Link to Full Benchmark Report (Where Available)		

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r 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% for 80W~800W, +/-10W for ~100W
Input Air Temp Available & Accuracy?	Yes, +/- 2(°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.

Therm	al Information *	Minimum	Typical	Maximum
	Total Power Dissipation (watts)	100.9W	139.8W	352.5W
	Delta Temperature at Exhaust at Peak Temp. (°C)	2.2	4.1	7.6
	Airflow at Maximum Fan Speed (CFM) at Peak Temp.	56.9	82.5	104.6
	Airflow at Nominal Fan Speed (CFM) at Nominal Temp.	43.0	46.6	66.2

\* 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 Temperature is defined as 18 - 27 °C

#### 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/power\_ssj2008.

## **ENERGY STAR Qualified Configurations**

Include specific information on ENERGY STAR Qualified SKUs or configurations Qualified Configuration ID: SYU4600A, SYU4600B

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ENERGY STAR Qualified Configurations (Continued) Include specific information on ENERGY STAR Qualified SKUs or configurations

