



MARKETING NAME\*: Alienware™ X51  
 REGULATORY MODEL: D05S  
 REGULATORY TYPE: D05S001  
 EFFECTIVE DATE: 18 January 2012

Dell Inc.  
 www.dell.com

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**I. PRODUCT SAFETY<sup>1</sup>**

The product has been certified and bears the Mark, as applicable, of the Product Safety authorities as indicated below:

Country/Region	Authority or Mark
Argentina	IRAM
Canada	SCC
China	CCC
European Union	CE
IECEE	IECEE CB
Mexico	NYCE or NOM
Norway	NEMKO
Russia	GOST
Saudi Arabia	KSA ICCP
Singapore	Safety Registration Scheme
South Africa	NRCS
Taiwan	BSMI
United States	NRTL

**II. ELECTROMAGNETIC COMPATIBILITY<sup>2</sup>**

The product has been certified and bears the Mark, as applicable, of the EMC authorities as indicated below:

Country/Region	Authority or Mark	Class
Australia / New Zealand	ACMA or C-Tick	Class B
Canada	ICES	Class B
China	CCC	Class B
European Union	CE	Class B
Japan	VCCI	Class B
Norway	NEMKO	Class B
Russia	GOST	Class B
Taiwan	BSMI	Class B
South Africa	SABS	Class B
South Korea	KCC	Class B
United States	FCC	Class B

\* Notice: This product has been assigned a unique regulatory model and regulatory type that is imprinted on the product shipping invoice and product labeling to provide traceability to the regulatory approvals noted on this datasheet. This datasheet applies to any product that utilizes the assigned regulatory model and type including marketing names other than those listed on this datasheet. Requests for specific information on product regulatory approvals should reference the assigned product regulatory model and type.

<sup>1</sup> The above-listed Product Safety certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.

<sup>2</sup> The above-listed EMC certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.



### III. POWER CORDS AND USER DOCUMENTATION

Dell products are provided with the power cord and user documentation suitable for the intended country of delivery. Products that are relocated to other countries should use nationally certified power cords and plugs to ensure safe operation of the product. Contact Dell to determine if alternate power cords or user documentation in other languages is available for your market.

### IV. DATASHEET RESPONSIBLE PARTY NAME AND ADDRESS

Dell Inc.  
Department: Global Regulations and Standards  
MS: PS4-30  
Round Rock, Texas 78682, USA  
512-338-4400  
[Regulatory\\_Compliance@Dell.com](mailto:Regulatory_Compliance@Dell.com)

### V. TRADE (IMPORT/EXPORT) COMPLIANCE DATA

System US Harmonized Tariff System (USHTS) Number	8471.50.0150
System US Export Control Classification Number (ECCN)	5A992

For additional questions regarding importing & exporting classification of Dell products, please send an e-mail to: [US\\_Export\\_Classification@Dell.com](mailto:US_Export_Classification@Dell.com)

### VI. SYSTEM DIMENSION AND WEIGHT

Depth, mm	Width, mm	Height, mm	Weight, kg
326	95	344	3.84

### VII. DECLARATIONS AND CERTIFICATIONS

\* EPEAT registered where applicable/supported. See product links for respective registration status by country: [Desktops](#), [Monitors](#), [Notebooks](#), [Workstation-Desktops](#), and [Workstation-Notebooks](#).

Information on Dell's participation in various Eco-labels and Green Standards can be found [here](#).  
Dell is a member of the Electronic Industry Citizenship Coalition (<http://www.eicc.info/>)

Through internal design controls and supply chain declarations, this system has been verified to comply with the EU RoHS Directive. For more details, see [www.dell.com/rohsinfo](http://www.dell.com/rohsinfo).

All Dell products shipping directly into China manufactured on or after March 1st, 2007 will be China RoHS compliant. For more details, see [www.dell.com/chinarohs](http://www.dell.com/chinarohs).

All Dell products shipping to South Korea are compliant with South Korea RoHS requirements, declarations [here](#).

Information on Japan RoHS (J-MOSS) chemical disclosures is available [here](#).

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals, EC 1907/2006) is the European Union's (EU) chemical substances regulatory framework. Dell complies with the REACH directive. For more details, see [www.dell.com/REACH](http://www.dell.com/REACH)

Dell's Energy Star qualified products are listed on the EPA website [here](#)



## VIII. PERFORMANCE DATA

### System Configuration

The Energy Consumption and Declared Noise Emissions data is based on a configuration including:

Processor	INTEL Core i7 2600 3.4GHz
Hard Drive(s)	SEAGATE ST31000524AS 1TB 7200 SATA HDD
Memory	Samsung DDR3-1333 4G*2
Video Card	nVIDIA GTX555
RMSD / Optical Drive	H-L CA30N
Power Supply (Internal or External)	External PSU
Power Supply Size in Watts	330W / 240W
Power Supply Efficiency Level	V

### Energy Consumption<sup>3</sup>

Energy efficiency benefits the environment and lowers the total cost of equipment ownership by reducing power consumption. Dell offers energy calculators that help estimate power needs, potential emissions avoidance and potential cost savings. Click [here](#) for Dell's Client Energy Savings Calculator, Data Center Capacity Planner, and Monitor Power Savings Calculator. Information on Energy Efficiency is available [here](#)

Service Level	Energy Consumption (Wattage)	BTU Calculation	Description of Service Level
*Maximum	173.3	592.6	The system is running programs to maximize the power consumption.
Idle Mode	47.1	160.9	As specified EPA Energy Star Computer mode.
S3 "Sleep" Mode	2.43	8.31	The system is in a low-power sleep mode otherwise known as "Standby" or "Suspend to Ram".
Off Mode	1.10	3.75	System is turned off but still connected to its' AC power source. If the product is a computer, the Low Power Mode is enabled via BIOS if available.
External Power Supply "No-Load"	0.074	0.254	AC adapter connected to mains with system detached otherwise known as "No-load" condition.

\*Maximum **Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** listed above.

If applicable, iAMT increases the power consumption even during the off state. The power measurements reported above are valid only if the iAMT Management Engine (ME) is set to "ON" in S0 state only (S0 is simply power-on, non-sleep, working state).

Energy consumption is tested at 230 Volts / 50 Hz. Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Off data is not meant to show compliance to US Executive Order 13221. When applicable, Dell product information related to US Executive Order 13221 may be obtained at: <http://oahu.lbl.gov/index.html>.

Dell's Energy Calculator can keep you in the know on how changes in power management settings and more efficient hardware options can positively impact energy costs, and can help you optimize your infrastructure for high efficiency. Please see Dell's Client Energy Savings Calculator [here](#).

<sup>3</sup> This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.



**Declared Noise Emissions in accordance with ISO 9296 (tested in accordance with ISO 7779)**

Service Level	Sound Power ( $L_{WA,d}$ , bels) (1 bel=10 decibels, re $10^{-12}$ Watts)	Sound Pressure Operator Position ( $L_{pAm}$ , decibels) (re $2 \times 10^{-5}$ Pa)	Sound Pressure Bystander Position ( $L_{pAm}$ , decibels) (re $2 \times 10^{-5}$ Pa)
Hard Drive Accessing	3.6	25.3	24.1
Optical Drive Accessing	4.9	36.6	35
Idle	3.6	25.2	23.9

**IX. PRODUCT MATERIALS INFORMATION<sup>4</sup>**

**Restricted Substances**

This Dell product does **NOT** contain any of the following substances (in concentrations exceeding legal threshold limits):

- Asbestos
- Azo dyes/colorants in components that come into direct contact with human skin
- Cadmium and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Class I and Class II CFCs (chlorofluorocarbons) and HCFCs (hydrofluorocarbons)
- Chloroparaffins, short chained (10-13 carbon chain)
- Chromium VI and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Halogenated dioxins or furans (i.e. polychlorinated dibenzodioxines, polychlorinated dibenzofurans)
- Lead and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Mercury (except for use in applications exempted by the EU RoHS Directive)
- Nickel and its compounds in components that are likely to result in prolonged skin exposure
- PCBs (polychlorobiphenyls) or PCTs (polychloroterphenyls)
- PBBs (polybromobiphenyls) or PBDEs (polybrominated diphenylethers)
- PVC (polyvinyl chloride) in plastic parts greater than 25 grams
- Polychlorinated naphthalenes (PCNs)
- Tributyl tin (TBT) and triphenyl tin (TPT) compounds

For information on Japan RoHS (J-MOSS) chemical disclosures: [www.dell.com/japan\\_rohs](http://www.dell.com/japan_rohs).

**Additional Materials Information**

- External and/or Internal cables may use PVC as an insulating material to ensure product safety
- The case material is, >PC< and >ABS<.
- Product may contain post-industrial recycled content (plastics, metal, glass)
- This product contains 0% post consumer recycled plastic
- Materials that may require special handling, please see WEEE Product End-of-Life Instructions [here](#)
- Marking of plastic parts greater than 25 grams are done in accordance with ISO 11469 (see below)

**Flame Retardants Used in Motherboard**

Part	Flame Retardant
Motherboard	aromatic brominated compounds (excluding brominated diphenyl ether and biphenyls)

<sup>4</sup> **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.



**Flame Retardants Used in Mechanical Plastic Parts > 25 grams**

Resin Material	Marking per ISO 11469:2000, 11469:1996	Flame Retardant Marking per ISO 1043-4 (i.e. FR(16), FR(40), etc.)	Flame Retardant (i.e. TBBPA, triaryl phosphate ester, etc.)	List applicable R-Phrase(s) per EU Directive 1272/2008
INEOS, Novodur P2H-AT 901510	>ABS<	N/A	N/A	N/A
Sabic, Lexan HF1130	>PC<	N/A	N/A	N/A

**X. PACKAGING**

No CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) or other ozone depleting substances are used in packaging material. Chromium, lead, mercury, or cadmium are not intentionally added to packaging materials and are not present in a cumulative concentration greater than 100 ppm as incidental impurities. No halogenated plastics or polymers are used for packaging material. Dell complies with the EU Directive 94/62/EEC.

Packaging Materials	Total Weight of each Material type, (kg)	% of Post Consumer Recycled Content (PCR)
Corrugated Fiberboard	1.06	Min 25%
HDPE Cushions	0.28	100%
LDPE Foam Inserts	0.05	Up to 60%

Printed user documentation is bleached in a chlorine-free process.

**XI. BATTERIES**

Batteries in this product are not based on mercury, lead or cadmium technologies. The batteries used in this product are in compliance with EU Directive 91/ 157/ EEC, EU Directive 93/ 86/ EEC, EU Directive 98/ 101/ EEC, and EU Battery Directive 2006/66/EC. The product documentation includes instructional information on the proper removal and disposal of the batteries used in this product. Below is a listing of batteries present in the product:

Battery Description – Internal Batteries	Battery Type	Battery Weight (g)
LITHIUM,NO RECHARGEABLE,KTS (VIC-DAWN)/BBBRCR2032W3.0-51021-0200,3V,220mAh,DIP-20 $\varphi$	Lithium	3.1

- Batteries used in this product are in compliance with EU Battery Directive 2006/66/EC.
- Batteries in this product are not based on mercury, lead or cadmium technologies.
- Information about take-back and the recycling of batteries can be found in the Recyclability section below.
- The product documentation includes instructional information on the proper removal and disposal of the batteries used in this product.



## XII. DESIGN FOR ENVIRONMENT

### Longevity and Upgrading

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. To extend the life of your system, you can install or upgrade certain system components (e.g., microprocessor, memory, expansion cards, and storage devices). Spare parts are available after the end of production for up to five years, or otherwise through the warranty period.

### Recyclability

For recyclability, this system incorporates the following design guidelines:

- EU WEEE mark is applied to products sold in Europe, EU recycling information can be found at [www.euro.dell.com/recycling](http://www.euro.dell.com/recycling)
- WEEE Product End-of-Life Instructions are available [here](#)
- Minimal use of non-separable connections, such as gluing and welding between different materials.
- Minimal use of composite structure materials.
- Painting/coating of plastics <100 grams is compatible with recycling or reuse
- Mechanical plastic parts greater than 100 grams consist of one material or of easily separable materials.

## XIII. RECYCLING/ END-OF-LIFE SERVICE INFORMATION

Take back and recycling services are offered for this product in certain countries. If you want to dispose of system components, contact Dell for instructions by emailing [recycling\\_emea@dell.com](mailto:recycling_emea@dell.com) or visit [www.dell.com/recyclingworldwide](http://www.dell.com/recyclingworldwide) and select the relevant country.

## XIV. DELL CORPORATE ENVIRONMENTAL INFORMATION

Information on Dell's Environmental initiatives, policies, programs and goals can be found at [www.dell.com/environment](http://www.dell.com/environment).

Dell's Corporate Responsibility Policies are available [here](#).

Product Safety, EMC and Environmental Datasheets for Dell products are located at: [www.dell.com/regulatory\\_compliance\\_datasheets](http://www.dell.com/regulatory_compliance_datasheets)

Dell's commitment to accountability and assurance is further demonstrated in leveraging the Global Reporting Initiatives (GRI) G3 Guidelines in the preparation of our annual summary report and Web site. We are self-reporting at a B level and have submitted our self-report to GRI to check it against the criteria for GRI Application Level B. To view GRI Index 2009 click [here](#).

Dell holds International Organization for Standardization (ISO) and Occupational Health & Safety Assessment Series (OHSAS) certifications/registrations in a number of important areas including global product development and recycling/take-\*back programs, quality, safety, and health and environment. You can view or download copies of certificates [here](#).

Information related to Supplier Responsibility is available [here](#).