



MARKETING NAME\*: Latitude™ 5420
REGULATORY MODEL: P16G
REGULATORY TYPE: P16G001
EFFECTIVE DATE: March 17, 2011

Dell Inc.
www.dell.com

TABLE OF CONTENTS FOR PRODUCT SAFETY, EMC & ENVIRONMENTAL DATASHEET

Regulatory

- I. Product Safety
II. Electromagnetic Compatibility
III. NFPA Conformity Statement
IV. Power Cords and User Documentation
V. Datasheet Responsible Party Name and Address
VI. Trade Import/Export Compliance Data

Environmental

- VII. System Dimension and Weight
VIII. Declarations and Certifications
IX. Performance Data
X. Product Materials Information
XI. Packaging
XII. Batteries
XIII. Design for Environment
XIV. Recycling/End-of-Life Service Information
XV. Dell Corporate Environmental Information

I. PRODUCT SAFETY¹

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

Table with 2 columns: Country/Region, Authority or Mark. Row: China, CCC

This model Dell notebook for use with the following adapters:

- Flextronics: FA065LS1-00; FA90PE-00; FA90PM111;
LiteOn: LA65NS2-00; LA90PE1-00;
Delta: DA65NM111-00; DA90PE3-XX; DA90PM111;
Hipro/Chicony: HA65NS5-00; HA90PE1-00;
Acbel: AA90PM111;
Astec: EA90PM111; EA90PE1-XX.

II. ELECTROMAGNETIC COMPATIBILITY²

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

Table with 3 columns: Country/Region, Authority or Mark, Class. Row: China, CCC, Class B

III. NFPA 99 Conformity Statement

All AC Adapters provided with Dell notebook computers comply with the chassis leakage current requirements as defined by clause 8.4.1.3.5 of National Fire Protection Association standard NFPA 99:2005...leakage current equal to or less than 300uA @ 127 VAC/60 Hz.

\* 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.

¹ The above-listed Product Safety certifications may vary depending upon the location of the Dell factory and specific product configuration.

² The above-listed EMC certifications may vary depending upon the location of the Dell factory and specific product configuration.



#### IV. 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.

#### V. 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)

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

System US Harmonized Tariff System (USHTS) Number	8471.30.0100
System US Export Control Classification Number (ECCN)	4A994

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)

#### VII. SYSTEM DIMENSION AND WEIGHT

Depth, cm	Width, cm	Height, cm	Weight, kg
350	240	35.7	2.02kg

#### VIII. DECLARATIONS AND CERTIFICATIONS

This system received the following approvals and may be labeled with one or more of these marks depending on point of purchase:

Approvals	Certificate #	Yes / No / N/A
CECP	CQC11701056175	Yes

\* 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 which are 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](#)

## IX. PERFORMANCE DATA

### System Configuration

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

Processor	Intel i7-2620M, 2.7GHz
Hard Drive(s)	500G
Memory	8G
Video Card	32GB
RMSD / Optical Drive	N/A
Power Supply (Internal or External)	External
Power Supply Size in Watts	90W
Power Supply Efficiency Level	Level V
Hard Drive(s)	500GB
CD-ROM	DVD RW
Memory	4GB82

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

Service Level	Energy Consumption (Wattage)	BTU Calculation	Description of Service Level
*Maximum	25.72	87.9624	The system is running programs to maximize the power consumption.
Idle Mode	10.16	34.7472	As specified EPA Energy Star Computer mode.
S3 "Sleep" Mode	1.39	4.7538	Suspend-to-RAM (low-power/sleep mode)
Off	1.01	3.4542	System is turned off but still connected to its AC power source. If the product is a computer, the Low Power Mode feature is enabled via BIOS if available.
External Power Supply "No-Load" (if applicable)	0.712	2.43504	AC adapter connected to mains with system detached otherwise known as "No-load" condition.

<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.



\*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](#).

**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)
Hard Drive Accessing	30.7	N/A
Optical Drive Accessing	35.4	N/A
Idle	37.8	N/A
CPU activated (at a utilization of 50%) ECMA-74	N/A	N/A
CPU activated (at a utilization of 90%) Blue Angel UZ 78	41.1	N/A



## X. 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

- The cables may use PVC as an insulating material to ensure product safety
- The case material is : >PC+ABS<
- Product may contain post-industrial recycled content (plastics, metal, glass)

### Mercury Information

Number of bulbs	Average per bulb
0	0 mg LED Display

### Flame Retardants Used in Mechanical Plastic Parts > 25 grams and Motherboards

Part	Flame Retardant	ISO 1043-4
Motherboard	TetrabromoBisphenolA (TBBP-A)	N/A
Mechanical Plastic Parts > 25 grams >PC+ABS<	Organic Phosphorous	FR(40)

<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.



## XI. 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	Weight, kg
Corrugated fiberboard	0.6826
Molded bamboo	0.2012
LDPE bags	0.0061

Printed user documentation is bleached in a chlorine-free process. (Europe Only)

## XII. 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
CR-2032 coin cell	Lithium
Rechargeable Battery 4 cell	Lithium Ion
Rechargeable Battery 6 cell	Lithium Ion
Rechargeable Battery 9 cell	Lithium Ion

## XIII. 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)
- Minimal use of non-separable connections, such as gluing and welding between different materials.
- Minimal use of composite structure materials.
- Mechanical plastic parts greater than 100 grams consist of one material or of easily separable materials.



#### **XIV. 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.

#### **XV. 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).

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)