

PRODUCT: Latitude™ D830, Latitude™ D830n REGULATORY MODEL: PP04X EFFECTIVE DATE: April 15, 2008 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
Australia	NATA <sup>†</sup>
Belarus	BELLIS
Canada	SCC
China	CNCA or CCC
Croatia	KONCAR
European Union	CE
Germany	TUV
IECEE	IECEE CB
Israel	SII
Kazakhstan	OTAN – CKT
Mexico	NYCE or NOM
Moldova	INSM
Nigeria	SONCAP
Norway	NEMKO
Russia	GOST
Saudi Arabia	SASO
	Safety Registration
Singapore	Scheme <sup>†</sup>
South Africa	SABS
South Korea	KETI (eK) <sup>†</sup>
Taiwan	BSMI
	UKRTEST or
Ukraine	UKRSERTCOMPUTER
United States	NRTL
Uzbekistan	STZ

<sup>&</sup>lt;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>†</sup> Product Safety certification is specific to the AC Adapter only.



# 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 /	ACMA	
New Zealand	or C-Tick	Class B
Belarus	BELLIS	Class B
Bosnia		
& Herzegovina,		
Montenegro, Serbia	KVALITET	Class B
Canada	ICES	Class B
China	CNCA or CCC	Class B
Croatia	KONCAR	Class B
European Union	CE	Class B
Israel	SII	Class B
Japan	VCCI	Class B
Kazakhstan	OTAN – CKT	Class B
Moldova	INSM	Class B
Norway	NEMKO	Class B
Russia	GOST	Class B
Saudi Arabia	SASO	Class B
South Africa	SABS	Class B
South Korea	BCC	Class B
Taiwan	BSMI	Class B
	UKRTEST or	
Ukraine	UKRSERTCOMPUTER	Class B
United States	FCC	Class B
Uzbekistan	STZ	Class B

# III. ERGONOMICS, ACOUSTICS AND HYGIENICS<sup>3</sup>

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

Country/Region	Authority or Mark
Germany	GS
Russia	GOST

## 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.

<sup>&</sup>lt;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.

<sup>&</sup>lt;sup>3</sup> The above-listed Ergonomics, Acoustics and Hygienics 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.



## 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 <u>Regulatory\_Compliance@Dell.com</u>

## 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: <u>US\_Export\_Classification@Dell.com</u>

## VII. SYSTEM DIMENSION AND WEIGHT

Depth, cm	Width, cm	Height, cm	Weight, kg
26.26	36.06	3.53	2.71 (May vary with additional options installed)

## **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
USA: Energy Star 4.0 capable	N/A	Yes
USA: FEMP Executive Order 13221	N/A	Yes
China: China Energy Certification Program (CECP)	BG04-0205- 2007	Yes

Through internal design controls and supply chain declarations, this system has been verified to comply with the EU RoHS Directive. For more details, please see <a href="http://www.dell.com/rohsinfo">www.dell.com/rohsinfo</a>.

All Dell products shipping directly into China which are manufactured on or after March 1st, 2007, will be China RoHS compliant. For more details, please see <u>www.dell.com/rohs</u>.



## IX. PERFORMANCE DATA

#### **System Configuration**

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

Processor	1 Intel 2.4GHz
Hard Drive(s)	1 160GB
CD-ROM	DVD/RW
FDD	No
Video Card	Yes
TV Card	No
Sound Card	Yes
Network Card	Yes
PERC Card	No
Modem Card	Yes
Other Cards	4GB memory
Power Supply(ies)	Qty 1 Wattage 90

## Energy Consumption<sup>4</sup>

Energy concemption			
Service Level	Energy Consumption (Wattage)	BTU Calculation	Description of Service Level
*Maximum	57.03	195.04	The data provided is the highest wattage reading while running an Industry Benchmark suite of tests.
Idle	18.27	62.48	As specified by the EPA Computer spec 4.0 or system is sitting at the main Windows screen.
ACPI-S3 "Standby" Mode	2.05	7.01	Suspend-to-RAM (low power mode)
ACPI-S4 "Hibernate" Mode	N/A	N/A	Suspend-to-Disk (a lower power mode)
Off Low Power Mode Disabled	0.79	2.70	System is turned off with the Low power Mode feature disabled via the BIOS.
Off Low Power Mode Enabled	N/A	N/A	System is turned off with the Low power Mode feature enabled via the BIOS.
External Power Supply	N/A	N/A	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.

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: <u>http://oahu.lbl.gov/index.html</u>.

<sup>&</sup>lt;sup>4</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.



Decialed Noise Emissions in accordance with ISO 3230 (tested in accordance with ISO 7773)				
	Sound Power	Sound Pressure	Sound Pressure	
Service Level	(L <sub>WAd</sub> , bels)	Operator Position	Bystander Position	
	(1 bel=10 decibels, re 10 <sup>-12</sup> Watts)	(L <sub>pAm</sub> , decibels) (re 2x10 <sup>-5</sup> Pa)	(L <sub>pAm</sub> , decibels) (re 2x10 <sup>-5</sup> Pa)	
Hard Drive Accessing	3.3	27	22	
CD Drive Accessing	4.1	31	26	
Idle	3.3	25	21	

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

## X. PRODUCT MATERIALS INFORMATION<sup>5</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: <u>www.dell.com/japan\_rohs</u>.

#### **Additional Materials Information**

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

#### **Mercury Information**

Number of bulbs	Average per bulb
1	<3 mg

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

Part	Flame Retardant	ISO 1043-4
Motherboard	TBBA	FR(16)
Mechanical Plastic Parts > 25 grams PC+ABS	Halogen-Free Organic Phosphorus Compounds	FR(40)

<sup>&</sup>lt;sup>5</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 Cardboard	Option Dependent
Expanded Polyethylene (EPE) Foam	Option Dependent

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 and EU Directive 98/ 101/ EEC.

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
Rechargeable 6 or 9-cell	Lithium Ion
3-V CR2032 Coin Cell	Lithium

\*\* Other batteries may be delivered in this system, depending on customer options. The optional internal batteries are either Lithium or Nickel Metal Hydride.

## 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
- 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 <u>recycling emea@dell.com</u> or visit <u>www.dell.com/recyclingworldwide</u> and select the relevant country.

## XV. DELL CORPORATE ENVIRONMENTAL INFORMATION

Information on Dell's Environmental initiatives, policies, programs and goals can be found at <u>www.dell.com/environment</u>.

Product Safety, EMC and Environmental Datasheets for Dell products are located at: <u>www.dell.com/regulatory\_compliance\_datasheets</u>