



PRODUCT: PowerConnect™ 2224  
REGULATORY MODEL: PowerConnect 2224  
EFFECTIVE DATE: April 25, 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
Canada	SCC
European Union	CE
Germany	TUV
IECEE	IECEE CB
Israel	SII
Mexico	NYCE or NOM
Russia	GOST
Singapore	Safety Registration Scheme
South Africa	SABS
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 A
Canada	ICES	Class A
European Union	CE	Class A
Israel	SII	Class A
Japan	VCCI	Class A
Russia	GOST	Class A
South Africa	SABS	Class A
United States	FCC	Class A

<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. 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

### 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. SYSTEM DIMENSION AND WEIGHT

Depth, cm	Width, cm	Height, cm	Weight, kg
23.1	33.0	4.32	2.25 (May vary with additional options installed)

### VII. DECLARATIONS AND CERTIFICATIONS

Through internal design controls and supply chain declarations, this system<sup>4</sup> has been verified to comply with the EU RoHS Directive<sup>5</sup>.

<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.

<sup>4</sup> Options from Dell Custom Factory Integration (CFI), Software and Peripherals (S&P) and Customer Kits may not be RoHS compliant.

<sup>5</sup> EU Directive on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (2002/95/EC) dated January 27, 2003.



## VIII. PERFORMANCE DATA

### Energy Consumption<sup>6</sup>

Service Level	Energy Consumption (Wattage)	Description of Service Level
Maximum	13.2	The system is running programs to maximize the power consumption.
Minimum	11.48	The system is in waiting mode, such as MS-DOS prompt.
Off	6.8	The system is turned off but is still connected to its AC power source.

Energy consumption is tested at 230 Volts / 50 Hz.

## IX. PRODUCT MATERIALS INFORMATION<sup>7</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 sheet metal
- Product may contain post-industrial recycled content (plastics, metal, glass)

<sup>6</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.

<sup>7</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, Keycaps and Motherboards

Part	Flame Retardant	ISO 1043-4
Motherboard	TBBPA	FR (16)

## 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	Weight, kg
AB liner board	1.1 kg/carton
EPE	0.6 kg/carton

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

## 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 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
N/A	N/A

\* This product does not contain any batteries.

## 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)
- 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.



### **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).

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)