



MARKETING NAME\*: Dell Precision™ T3500, Dell Precision™ T3500n  
 REGULATORY MODEL: DCTA  
 REGULATORY TYPE: 08055  
 EFFECTIVE DATE: July 1, 2009

Dell Inc.  
 www.dell.com

## TABLE OF CONTENTS FOR PRODUCT SAFETY, EMC & ENVIRONMENTAL DATASHEET

### Regulatory

- I. [Product Safety](#)
- II. [Electromagnetic Compatibility](#)
- III. [Ergonomics, Acoustics, and Hygienics](#)
- 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 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
Belarus	BELLIS
Cambodia	ISC
Canada	SCC
China	CNCA or CCC
Croatia	KONCAR
European Union	CE
Germany	NEMKO
IECEE	IECEE CB
Israel	SII
Kazakhstan	OTAN – CKT
Mexico	NYCE or NOM
Kuwait	KUCAS
Moldova	INSM
Nigeria	SONCAP
Norway	NEMKO
Russia	GOST
Saudi Arabia	KSA ICCP
Singapore	Safety Registration Scheme
South Africa	NRCS
Taiwan	BSMI
United States	NFPA
United States	NRTL
Uzbekistan	STZ

\* 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.



## 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
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
South Africa	SABS	Class B
South Korea	KCC	Class B
Taiwan	BSMI	Class B
United States	FCC	Class B
Uzbekistan	STZ	Class B
Vietnam	ICT	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>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>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  
[Regulatory\\_Compliance@Dell.com](mailto:Regulatory_Compliance@Dell.com)

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

System US Harmonized Tariff System (USHTS) Number	8471.50.0150
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
46.8	17.25	44.8	17.3 (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 #
China: China Energy Certification Program (CECP)	TBD
USA: Energy Star 5.0 Capable	<a href="#">Yes</a>
TCO'05	05:0902:17
EPEAT	<a href="#">Yes</a>
Germany: Blue Angel	<a href="#">19425 / 19426</a>

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 [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, please see [www.dell.com/rohs](http://www.dell.com/rohs).

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, please see [www.dell.com/downloads/global/corporate/enviro/Dell\\_REACH\\_SVCH\\_Table.pdf](http://www.dell.com/downloads/global/corporate/enviro/Dell_REACH_SVCH_Table.pdf)



## IX. PERFORMANCE DATA

### System Configuration

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

Processor	Intel® Xeon® Processor 3500 series (quad core) at 2.26GHz
Hard Drive(s)	(2) 1000GB
Memory	1GB of DDR3
Video Card	1GB of memory in a discrete video card
RMSD	DVD +/- RW
Power Supply 525W	<a href="#">H525EF-00</a> Typical Efficiency 88.88%, Average Efficiency 87.11%
	<a href="#">N525EF-00</a> Typical Efficiency 88.87%, Average Efficiency 86.81%

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

Service Level	Energy Consumption (Wattage)	Heat Dissipation (BTU/hr). AUTOMATICALLY CALCULATED	Description of Service Level
*Maximum	257.59	880.95	The system is running programs to maximize the power consumption.
Minimum	127.9	437.41	The system is tested in compliance to Energy Star 4.0 "idle" mode.
ACPI S3	3.57	12.20	The system is in a low-power sleep mode otherwise known as "Suspend to Ram" with WOL enabled
Off	0.947	3.23	System is turned off with Low-Power-Mode enabled in the BIOS and WOL off
Using the Energy Star® 5.0 testing methodology: $P_{TEC} = 0.35 * P_{off} + 0.10 * P_{sleep} + 0.55 * P_{idle}$ where all Px are power values in watts with			
<b><math>P_{TEC}</math> Requirement - Workstations</b>		$P_{TEC} \leq 0.28 * [P_{max} + (\# HDD * 5)]$	
Operational Mode Weighting	$T_{off}$		35%
	$T_{sleep}$		10%
	$T_{idle}$		55%
	$P_{TEC}$		71.03
Workstations	This configuration meets the Energy Star 5.0 requirements		

\*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.

<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.



## Acoustics Noise Emission Information

Component	System Configuration
CPU	Intel, PRC, W3540,2.93,1066,8MB,XDN,130W
Memory	Qimonda,DIMM,1G,1333,128X64,8,240,1RX8
HDD (#, capacity)	Hitachi 250GB,7.2K WD 250GB,7.2K
RMSD	HLDS, DVD,16X,SATA
Graphics Adapter	Nvidia, Quadro FX580 512MB

The Declared A-weighted Sound Pressure Level in decibels (re  $2 \times 10^{-5}$  Pa), at Operator, Bystander, and Desk Side Positions are measured in accordance with ISO 7779 7.6.1, 7.6.2, and C.15.2 and declared in accordance with ISO 9296 for this product is as follows<sup>5</sup>:

Operating Mode	System Configuration Declared Sound Pressure ( $L_{pA}$ )			
	Table-top		Floor-standing	
	Operator Position ( $L_{pA}$ )	Bystander Position ( $L_{pA}$ )	Operator Position ( $L_{pA}$ )	Bystander Position ( $L_{pA}$ )
Idle	28.3	25.1	24.1	23.1
HDD Operating	28.4	25.2	24.3	23.2
ODD Operating	39.2	34.9	34.2	32.1
50% CPU	28.5	24.7	24.3	22.9
90% CPU	38.9	33.5	30.0	29.2

Note: Declared Sound Pressure rounded to nearest whole number of decibels as per ISO 9296 section 4.4.4

<sup>5</sup> All tests are conducted according to ISO 7779 and declared according to ISO 9296 except 90% CPU. For this mode, the system CPU was stressed at 90% utilization with no other peripheral device actively seeking. This test mode is not specified in ISO 7779, but was measured using the same microphone distances and measurement techniques defined for the other reported operating modes.



## X. PRODUCT MATERIALS INFORMATION<sup>6</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, PC+ABS
- Product may contain post-industrial recycled content (plastics, metal, glass)

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

Part	Flame Retardant	ISO 1043-4
Motherboard	TBBPA	FR16
Plastic Part Material: ABS	N/A	>ABS<
Plastic Part Material: PC+ABS	Triphenyl phosphate ester	>PC+ABS FR(40)<

<sup>6</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	1.91
LDPE	0.43

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
3-V CR2032 Coin Cell	Lithium coin cell

## 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.
- 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)