



# Product Compliance Datasheet

**MARKETING NAME.....: P2423**

**REGULATORY MODEL.....: P2423b**

**REGULATORY TYPE.....: NA**

**EMC EMISSIONS CLASS.....: Class B**

**EFFECTIVE DATE.....: February 22, 2022**

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# I. Statement of Compliance

This product has been determined to be compliant with the applicable standards, regulations, and directives for the countries where the product is marketed. The product is affixed with regulatory marking and text as necessary for the country/agency. Dell manufacturers and markets Multimedia Equipment (MME), Information Technology Equipment (ITE), Audio Visual Equipment (A/V), Industrial, Scientific, Medical Equipment (ISM) or combinations of these. Generally, products Electromagnetic Compatibility (EMC) and Product Safety compliance is based on International IEC and CISPR standards and their national equivalent along with national standards for Radio (wireless), Telecommunications (Modem) and Energy. Dell products have been verified to comply with the Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU of the European Parliament and the Council. Dell product does not contain any of the restricted substances in concentrations and applications not permitted by the RoHS Directive.

EMC Emissions Class refers to one of the following use environments:

- EMC Class B product is intended for use in residential/domestic environments but may also be used in nonresidential/non-domestic environments.
- EMC Class A product is intended for use in non-residential/non-domestic environments. Class A product may also be utilized in residential/domestic environments but may cause interference and require the user to take adequate corrective measures.

For Product Safety and EMC compliance, this product has been assigned a unique regulatory model and regulatory type that is imprinted on the product regulatory 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. Dell products with the CE marking have been verified to comply with Energy Related Products (ErP) Directive 2009/125/EC of the European Parliament and of the Council. [https://www.dell.com/ErP\\_User\\_Information](https://www.dell.com/ErP_User_Information). REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), Regulation (EC) 1907/2006 of the European Parliament and of the Council is the European Union's (EU) chemical substances regulatory framework. Dell complies with the REACH regulation. For information on SVHC (Substances of Very High Concern), see [www.dell.com/REACH](http://www.dell.com/REACH). This products compliance documentation, such as this datasheet and the European Union Declaration of Conformity are available on the product support page, manuals tab <http://www.dell.com/support>. Additional compliance documentation for the product is available upon email request to [product\\_compliance@dell.com](mailto:product_compliance@dell.com). Please include product identifiers such as marketing name, regulatory model, regulatory type and country that compliance information is needed in the email request.



## II. Global Environmental Information

Environmental (Voluntary Marks)		
Country	Approval	Compliance
Global	ENERGY STAR	Certified
Global	TCO Certified	Certified
China	CECP	Certified
China	CEC	Certified
Taiwan	Greenmark	NA
Varies by Country See <a href="http://EPEAT.net">EPEAT.net</a>	EPEAT	Refer to EPEAT.net for specific registration levels and countries

Adapter Certification and Declaration (Applicable only if product uses an external adapter)

Adapter Certification and Declarations	
Country	Authority/Mark
Australia/New Zealand	Australia/NZ MEPS
Canada	NRCan
US – California Energy Commission	Adapter & Battery Charger
European Union	Commission Regulation (EU) No. 2019/1782
South Korea	South Korea MEPS

## III. NFPA 99 Conformity

Select Dell systems have been tested and found to comply with the touch current requirements as defined in 10.3.5 of National Fire Protection Association standard NFPA 99:2012. The touch current does not exceed 100  $\mu$ A with ground wire intact (if a ground wire is provided) and 500  $\mu$ A with ground disconnected at 127 V AC, 60 Hz when tested in accordance with 10.3.5 of NFPA 99: 2012. To determine if this product complies with the above requirements, send a request to [Product\\_Compliance@Dell.com](mailto:Product_Compliance@Dell.com). Please include product identifiers such as marketing name, regulatory type and country for which compliance information is needed.

## 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. Trade (Import/Export) Compliance Data

For any questions related to importing & exporting classification of Dell products, please obtain information from the following link: <http://www.dell.com/learn/us/en/uscorp1/import-export> or send email request to [WW\\_Export\\_Compliance@dell.com](mailto:WW_Export_Compliance@dell.com). Please include product identifiers such as marketing name, regulatory model, regulatory type and country that compliance information is needed in the email request.

## VI. Product Dimensions and Weight

For Display products, please refer to the user manual for weight and dimension information at [www.dell.com](http://www.dell.com).

## VII. Performance Data

For additional information on how Dell's commitment to energy efficiency benefits you go to: [Reducing your Footprint](#)

For additional information on ENERGY STAR models refer to the following database: [ENERGY STAR Product Finder](#)



## Displays:

Items	Energy Value	BTU Calculation	Defintions
Off Mode (W)	0.2	0.684	As defined in EU 2019/2021 and EU 2019/2013 'off mode' means a condition in which the electronic display is connected to the mains power source and is not providing any function: the following shall also be considered as off mode: (1) conditions providing only an indication of off mode condition; (2) conditions providing only functionalities intended to ensure electromagnetic compatibility pursuant to Directive 2014/30/EU of the European Parliament and of the Council (1);
Standby Mode (W)	0.3	1.026	As defined in EU 2019/2021 and EU 2019/2013 'standby mode' means a condition where the electronic display is connected to the mains or DC power source, depends on energy input from that source to work as intended and provides only the following functions, which may persist for an indefinite time: — reactivation function, or reactivation function and only an indication of enabled reactivation function; and/or — information or status display;
On Mode (W)	14.8	50.616	As defined in EU 2019/2021 and EU 2019/2013 on mode' or 'active mode' means a condition in which the electronic display is connected to a power source, has been activated and is providing one or more of its display functions;
Max (W)	48	164.16	According to Userguide. Max brightness and contrast setting with maximum power loading on all USB ports.The system is running programs to maximize the power consumption.
Pon (W)	12.85	43.95	Reference to Energy Star Version 8 Test Method
TEC (KWH)	40.76	139.4	Reference to Energy Star Version 8 Test Method
Ext Power Supply	NA	NA	Portables only! AC adapter is tested with no load attached
Ext Power Supply	NA	NA	Portables only! AC adapter is tested with active load attached
Items	Rating/Value/Links		Defintions
EEL Grade	D		As defined in EU 2019/2021 and EU 2019/2013
EU EPREL URL	<a href="https://eprel.ec.europa.eu/qr/1043228">https://eprel.ec.europa.eu/qr/1043228</a>		EU EPREL Registration Website link

**\*Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** and in accordance to the described service level. Energy consumption is tested at 230 Volts / 50 Hz.

### Energy Consumption<sup>1</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](#).

<sup>1</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. For more details visit <https://www.dell.com/learn/us/en/uscorp1/dell-environment>



## VIII. Product Materials Information

Information on Dell's material use is available [here](#).

Dell's Restricted Material for Use guidance document is available at [www.dell.com/restrictedsubstanceslist](http://www.dell.com/restrictedsubstanceslist).

- The case material is ABS, PC+ABS.
- This product contains 84.5 % post-consumer recycled plastic and /or closed loop recycled plastics (ITE-derived)\*  
 (\*Measured as a percentage of total amount of plastic (by weight) in the product as per guidance in EPEAT standard as applies to plastics parts)

Mechanical plastic parts <sup>2</sup> > 25 g are BFR/PVC free	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Marking of plastics parts greater than 25 grams is in accordance with ISO 11469 (see below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Printed circuit boards (without components) >25g are BFR PVC free <sup>3</sup>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Insulation materials of external electrical cables are PVC free	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Insulation materials of internal electrical cables are PVC free	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Product is BFR/PVC Free (Accessories & Options may not be BFR/PVC-Free, refer to spec ENV0199)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Flame Retardants Used in Motherboard

Part	Flame Retardant
Motherboard	Halogen-free Organic Phosphates Compounds

<sup>2</sup> Mechanical plastic part: plastic parts that do not internally carry an electrical signal such as housings, brackets, bezels, latches, etc. that form the basic structure of the product and/or have mechanical functions. Plastic parts such as fans, connectors, printer fuser assemblies, etc. are not considered "mechanical plastic parts" in the context of this specification. Plastics parts do not contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride (Per Dell Spec ENV0424)

<sup>3</sup> Dell will adopt the BFR/CFR/PVC-free definition as set forth in the "iNEMI Position Statement on the Definition of 'Low-Halogen' Electronics (BFR/CFR/PVC-Free)." Plastic parts contain <1000 ppm (0.1 percent) of bromine (if the Br source is from BFRs) and <1000 ppm (0.1 percent) of chlorine if the Cl source is from CFRs, PVC or PVC copolymers. All printed circuit board (PCB) and substrate laminates contain bromine/chlorine totaling less than 1,500 ppm (0.15 percent), with maximum chlorine of 900 ppm (0.09 percent) and maximum bromine of 900 ppm (0.09 percent)



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

Resin Material Name	Plastic Part Marking per ISO 11469:2016	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) or Hazard Statement(s) per EU Directive 67/548/EEG or 1272/2008
ABS	>ABS(REC85)<	NA	NA	None
PC+ABS	>PC+ABS(REC85)-FR(40)<	FR(40)	Halogen-free Organic Phosphates Compounds	None

## Mercury Information

Number of bulbs	Average per bulb
0	0 mg

### Additional information:

- Refer to Dell Technologies' [Chemical Use Policy](#) for more information on RoHS and REACH.
- Products MSDS (Material Safety Data Sheets):
  - Batteries: [Battery MSDS Documentation and Declaration](#)

## IX. Packaging

Information on Dell's sustainable packaging effort available [here](#). Additional materials restricted in Packaging as per Dell's Material Restricted for Use Standard document can be found at [www.dell.com/restrictedsubstanceslist](http://www.dell.com/restrictedsubstanceslist).

### Peripherals products

Packaging Materials	Total Weight of each Material type *kg	% of Post Consumer Recycled Content (PCR)
Carton box (Corrugated Fibred Board)	1.62	90
Cushion – Molded paper pulp	0.45	100
Cushion – Expanded Polyethylene (EPE)	0.02	0
Plastic bags – LDPE	0.05	0



## X. Batteries

Below is a listing of batteries that could be present in the product:

Battery Description – Batteries	Battery Type	Battery Weight (kg)	Rating
AA or AAA Remote Control Battery	NA	NA	NA

## XI. Design for Environment

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. For more information on Dell's Environmental product attributes please visit <https://www.dell.com/learn/us/en/uscorp1/dell-environment?s=corp>.

## XII. 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, please visit [www.dell.com/recyclingworldwide](http://www.dell.com/recyclingworldwide) and select the relevant country.

## XIII. Helpful Links

- **Environmental Policy**  
<http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-global-environmental-policy.pdf>
- **Environment Website**  
<https://www.dell.com/learn/us/en/uscorp1/dell-environment?s=corp>
- **Corporate Social Responsibility Report**  
<http://www.dell.com/Learn/us/en/uscorp1/report?c=us&l=en&s=corp&delphi:gr=true>
- **ISO 14001 Certification**  
<http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-iso14001-worldwide.pdf>
- **Materials Restricted for Use**  
[http://www.dell.com/downloads/global/corporate/enviro/restricted\\_materials\\_guid.pdf](http://www.dell.com/downloads/global/corporate/enviro/restricted_materials_guid.pdf)
- **Chemical Use Policy**  
<http://i.dell.com/sites/doccontent/corporate/environment/en/Documents/chemical-use-policy.pdf>
- **Product Carbon Footprint**  
[http://content.dell.com/us/en/corp/d/corp-comm/environment\\_carbon\\_footprint\\_products](http://content.dell.com/us/en/corp/d/corp-comm/environment_carbon_footprint_products)
- **RoHS Compliance**  
<https://www.dell.com/learn/us/en/uscorp1/envt-info-materials>
- **REACH Compliance**  
[www.dell.com/REACH](http://www.dell.com/REACH)
- **Recycling Information**  
<http://www.dell.com/recycling>
- **Supplier Responsibility**  
<http://content.dell.com/us/en/corp/d/corp-comm/standards-for-suppliers.aspx>

