

### Product environmental attributes - THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an \* are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	ThinkPad	Logo		
Company name *	Lenovo			
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com	lenovo.		
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html			
Additional information	The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html			

	The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.				
Type of product *	lotebook PC				
Commercial name *	hinkPad S531/S5-S531				
Model number *	1/T: 20B0				
Issue date *	2014, June 17				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality	Quality Control Re		
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	$\boxtimes$	
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).		

Model number *	ThinkPad S531/S5-S531	M/T: 20E	<b>30</b>	
Issue date *	2014, June 17	Lo	ogo	lenovo.

Product	environmental attributes - Legal requirements	Require	ment	met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)			
P1.2*	Products do not contain Asbestos (see legal reference).  Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	$\boxtimes$		
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).			
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)			X
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference).  Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm²/week (see legal reference).  Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/materials.html			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	$\boxtimes$		
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medica or data integrity reasons do not have to be "easily removable". (See legal reference)			
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	$\boxtimes$		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	$\boxtimes$		
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	$\boxtimes$		
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).			$\boxtimes$
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			$\boxtimes$
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium an hexavalent chromium by weight of these together.	d 🔀		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	$\boxtimes$		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.	al 🔀		

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

Model number *	ThinkPad S531/S5-S531	M/T: 20	)B0	
Issue date *	2014, June 17		Logo	lenovo.

Product	environmental attributes - Market requirements - Environmental conscious design Re	quire	ment	met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	$\boxtimes$		
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable		$\overline{}$	$\blacksquare$
P7.2*		<del> </del>		╬
	Plastic materials in covers/housing have no surface coating.			ᄴ
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			_ <u>_</u> _
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	$\boxtimes$		
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	$\boxtimes$		
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	$\boxtimes$		
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	$\boxtimes$		
P7.8*	Upgrading can be done using commonly available tools	$\boxtimes$		
P7.9.	Spare parts are available after end of production for: 5 years			币
P7.10	Service is available after end of production for: 5 years			Ħ
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
	Material type: PC-FR (40) Material type: Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.		$\boxtimes$	
P7.13	Electrical cable insulation materials of signal cables are PVC free	$\blacksquare$		币
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	$\overline{\boxtimes}$	一一	市
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			Ħ
	Note B2)			
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:  Marking: FR (40)			
P7.17	Alt. 1			
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):			
	TBBPA (additive) , TBBPA (reactive) , Other ; chemical name: DOPO(9,10-dihydro-9-oxa-10-			
	phosphaphenanthrene-10-oxide), CAS #: 35948-25-5			
	Alt. 2			
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according	Ш	Ш	
	ISO 1043-4:			
P7.18	Alt. 1			
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in			
	concentrations above 0.1%:			
	Comment: No legal limits exist, this is a market requirement.  1. Chemical name: , CAS #:			
	2. Chemical name: , CAS #:			
	3. Chemical name: , CAS #:			
	Alt. 2			
	Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:			
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45,		井	<del>-</del>
P7.19	R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)		Ш	Ш
P7.20	Of total plastic parts' weight >25g, recycled material content is 0%.			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.			
P7.22	Light sources are free from mercury	$\boxtimes$		Ш
P8	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg  Batteries mg			
P8.1*	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide			
P8.2	Batteries meet the requirements of the following voluntary program/s: <i>US Call2Recycle</i> , <i>EPBA</i> , <i>JBRC</i>			$\dashv$

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

Model number *	ThinkPad S531/S5-S531	M/T: 20B0	
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Product environmental a	attributes - Market	requirements (	continued)		Requiremer	nt met
Item					Yes No	n.a.
P9 Energy consum	ption					
9.1 For the product the	ne following power leve	els or energy cons	umptions are re	ported: See P14		
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy method *	y modes and tes	st
Peak (On-max)	<i>65</i> W	<i>65</i> W	<i>65</i> W	Full load		
Category I1						
Short Idle - WOL Enabled	9.123 W	<i>9.23076</i> W	9.05892 W	Use for Energy Star V6 registr	ration(P <sub>SHORT_IDLE</sub>	) 🔲
Long Idle - WOL Enabled	6.89496 W	6.84852 W	<i>6.26364</i> W	Use for Energy Star V6 register		
Sleep (S3) - WOL Enabled	0.452376 W	0.452412 W	0.467724 W	Use for Energy Star V6 registr	ration(P <sub>SLEEP)</sub>	
Sleep (S3) - WOL Disabled	W	W	W	Reference		
Off (S5) - WOL Enabled	0.304476 W	0.303312 W	0.318372 W	Use for Energy Star V6 register	ration(P <sub>OFF</sub> )	
Off (S5) - WOL Disabled	W	W	W	Use for ErP		
EPS No-load	W	<b>0.072</b> W	<b>0.252</b> W			
(External power supply / charger plugged in the wall						
outlet but disconnected from the product.)						
PTEC *	W	W	W			+
Typical Energy Consumption						
TEC *	kWh/week					$\top$
Typical Energy Consumption		kWh/week	kWh/week			
ETEC * Annual Energy Consumption	<b>32.07</b> kWh/year	<b>32.31</b> kWh/year	<b>31.43</b> kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>OFF</sub> × T <sub>O</sub> T <sub>SLEEP</sub> + P <sub>LONG_IDLE</sub> × T <sub>LONG_IDLE</sub> T <sub>SHORT_IDLE</sub> )	OFF + P <sub>SLEEP</sub> × E + P <sub>SHORT_IDLE</sub> :	*
D: 1 11: t 4000	700 4000 F: I					1
Display resolution* : 1366x						<u> </u>
·	mages per minute					
Default time to enter energy						
	t the energy save func	•	•			
	ts the energy requirem version: <i>Version 6.0</i>			gram/s: Product category: <mark>/1</mark>		]
P10 Emissions						
	- Declared according	to ISO 9296				
P10.1 Mode	Mode description		Declared	Declared A-weig	hted	
			A-weighted sound power		$L_{p{\sf Am}}$ (dB)	
			level $L_{WAd}$ (	N	stander position	s
			,,,,,	Desktop 🔀	y if product is no	<u> </u>
					perator attended	
Idle	* Idle mode  * Operating HDD / 0	CDU	* 2.7	18		$\perp \square$
Operation Other mode	Operating HDD / (	LFU	* 2.8 / 2.9	20 / 19		$\dashv$ $\sqcup$
Measured accord	ling to: 1007770	ECMA-74				-
ivieasured accord	Other		ered by ECMA-74	with L <sub>pAm</sub> measurement distance	e m)	
P10.2 The product mee	ts the acoustic noise r					

Model number *	ThinkPad S531/S5-S531	M/T: 20B0	
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P10.4 Typical emission rate (print phase) is (mg/h):  Dust Ozone Styrene Benzene TVOC  P10.5 Chemical emission requirements of the following voluntary program/s are met for:  Dust Ozone Styrene Benzene TVOC    P10.6 Chemical emission requirements of the following voluntary program/s are met for:  Dust Ozone Styrene Benzene TVOC    P10.6 Electromagnetic emissions  P10.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: MPR-II(3 pin AC adapter only)  P11 Consumable materials for printing products  P11.1.* A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).  P11.2.* Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.  P11.3.* 2-sided (duplex) printing/copying is an integrated product function.  P12.1.* The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.  P12.2.* The physical input device meets the requirements of ISO 9995 and ISO 9241-410.  P13.1.* Product packaging material type(s): 80% Recycled Corrugated Cardboard Product packaging material type(s): 100% Recycled Molded Pulp Cushions  P13.2.* Product packaging material type(s): 100% Recycled Molded Pulp Cushions  P13.3.* Specify media for user and product documentation (tick box):  Electronic P6  P13.4.* For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%	Product 6	environmental attributes - Market requirements (continued)	Require	ment	met				
P10.3° Test performed according to ECMA-328 (ISO/IEC 28360) standard  , other specify:	Item	· · · · · · · · · · · · · · · · · · ·	Yes	No	n.a.				
P10.4 Typical emission rate (print phase) is (mg/h):  Dust		Chemical emissions from printing products							
Dust Ozone Styrene Benzene TVOC  Chemical emission requirements of the following voluntary program/s are met for:  Dust Ozone Styrene Benzene TVOC  Electromagnetic emissions  P10.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: MPR-II/3 pin AC adapter only)  P11 Consumable materials for printing products  P11.1* A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).  P11.2* Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of N12281.  P11.3* 2-sided (duplex) printing/copying is an integrated product function.  P12 Ergonomics for computing products  P12.1* The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.  P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410.  P13.1* Product packaging material type(s): 80% Recycled Corrugated Cardboard Product packaging material type(s): 100% Recycled Molded Pulp Cushions Weight (kg): 0.509  Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): 100% Recycled Molded Pulp Cushions Weight (kg): 0.019.7  P13.2* Product plastic packaging is free from PVC.  P13.3* Specify media for user and product documentation (tick box):  Electronic Paper user and product documentation (tick box):  Electronic Paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%  P14. Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information information.	P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:			X				
P10.5 Chemical emission requirements of the following voluntary program/s are met for:  Dust Ozone Styrene Benzene TVOC    Benzene TVOC	P10.4	Typical emission rate (print phase) is (mg/h):			X				
Dust		Dust Ozone Styrene Benzene TVOC							
Electromagnetic emissions	P10.5	Chemical emission requirements of the following voluntary program/s are met for :			$\times$				
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P12.1* The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.  P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410.  P13.1* Product packaging material type(s): 80% Recycled Corrugated Cardboard Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): 00% Recycled Molded Pulp Cushions Product packaging material type(s): 00% Recycled Molded Pulp Cushions Product packaging is free from PVC.  P13.2* Product plastic packaging is free from PVC.  P13.3* Specify media for user and product documentation (tick box):  Electronic P%  P13.4* For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%  P14 Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.	P11.3*	2-sided (duplex) printing/copying is an integrated product function.			$\boxtimes$				
P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410.  P13 Packaging and documentation  P13.1* Product packaging material type(s): 80% Recycled Corrugated Cardboard Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): 0thers (plastic bags) Product plastic packaging is free from PVC.  P13.2* Product plastic packaging is free from PVC.  P13.3* Specify media for user and product documentation (tick box):  Electronic Propaper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%  P14 Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.  P9 See Energy Star Qualified Notebooks & Tablet Computers for the latest information:	P12	Ergonomics for computing products							
P13.1* Product packaging material type(s): 80% Recycled Corrugated Cardboard Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): 0thers (plastic bags) Product packaging material type(s): 0thers (plastic bags) Weight (kg): 0.240 Weight (kg): 0.019.7  P13.2* Product plastic packaging is free from PVC.  P13.3* Specify media for user and product documentation (tick box): Electronic Paper Of there Poster Poste	P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	$\boxtimes$						
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Product packaging material type(s): 100% Recycled Molded Pulp Cushions Product packaging material type(s): Others (plastic bags)  Product plastic packaging is free from PVC.  P13.2* Product plastic packaging is free from PVC.  P13.3* Specify media for user and product documentation (tick box): Electronic , Paper , Other  P13.4* For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%  P14 Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.  P9 See Energy Star Qualified Notebooks & Tablet Computers for the latest information:	P13	Packaging and documentation							
Product packaging material type(s): Others (plastic bags) weight (kg): 0.019.7  P13.2* Product plastic packaging is free from PVC.  P13.3* Specify media for user and product documentation (tick box):  Electronic , Paper , Other   P13.4* For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%  P14 Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.  P9 See Energy Star Qualified Notebooks & Tablet Computers for the latest information:	P13.1*								
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P13.4* For paper user and product documentation, please specify contained percentage of post-consumer recycled [] P14 Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.  P9 See Energy Star Qualified Notebooks & Tablet Computers for the latest information:	P13.3								
fiber: 0%  P14 Additional information (See Note B4)  NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.  P9 See Energy Star Qualified Notebooks & Tablet Computers for the latest information:	D12 //*								
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		NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more							
nup://www.energystar.gov/index.ctm?tuseaction=tind_a_product.snowProductGroup&pgW_code=CO	P9								
		nup://www.energystar.gov/index.cim?tuseaction=tind_a_product.snowProductGroup&pgw_code=CO							

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

# Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

# **Lenovo ErP Lot3 Information Sheet**

## - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

#### Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	ThinkPad S531	Logo
Model Number	2080	lenovo
Issue Date	2014, July 1	1011010
Additional information		

(d)	year of manufacture:	2014					
(e)	<b>E TEC value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete grap disabled</b> and if the system is tested with switchable graphics mode with UMA driving the display:	hics cards (dGfx) are					
	Category (according to ErP Lot 3): A Etec: 21.69						
(f)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enabled:						
	Category (according to ErP Lot 3): B Etec: 23.35						
(g)	idle state power demand (Watts);	A:7.44,B:8.02					
(h)	sleep mode power demand (Watts);						
(i)	sleep mode with WOL enabled power demand (Watts) (where enabled);	A:0.64,B:0.68					
(j)	off mode power demand (Watts);						
(k)	off mode with WOL enabled power demand (Watts) (where enabled);	A:0.30,B:0.32					
(I)	internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):						
	10% 20% 50% 100% Average						
(m)	external power supply efficiency (if applicable):						
	10% 20% 50% 100% Average ;						
	or level: V						
(0)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook compu	iters): 1000					
(p-1)	the measurement methodology used to determine information mentioned in points (I) – internal efficiency:  Not applicable	PSU					
	•						
(p-2)	the measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:  EPA "Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies" dated August 11, 2004						
(p-3)	the measurement methodology used to determine information mentioned in points (o) – loading batteries:  IEC 61960 measurement methodology	cycles					

(p-4)				o determine information mentioned in maximum, idle, sleep, off mode product IT Eco Declaration:				
			ENER	GY STAR measurement methodology				
(q)	sequence	sequence of steps for achieving a stable condition with respect to power demand::						
			ENER	GY STAR measurement methodology				
(r)	description of how sleep and/or off mode was selected or programmed:							
		By selectin	g sleep	and/or off mode thru Windows operating system				
(s)	sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:							
		A	utomati	ically changes to sleep after 20 minutes				
(t)				refore the computer automatically reaches sleep mode, or another oplicable power demand requirements for sleep mode (in minutes):	20 minutes			
(u)	the length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes):							
(v)	the length of time before the display sleep mode is set to activate after user inactivity (in minutes):  10 minutes							
(w)	information	on the energy-savi	ng poter	ntial of power management functionality:				
	User i	nformation describ	ed in U	ser Guide and Power Manager under ThinkVantage menu in all programs				
(x)	user inform	nation on how to ena	able the	power management functionality:				
	User i	nformation describ	ed in U	ser Guide and Power Manager under ThinkVantage menu in all programs				
(z)	the electric			test voltage in V and frequency in Hz, — total harmonic distortion of ation and documentation on the instrumentation, set-up and circuits				
			230V,	50Hz, Total Harmonic Distortion <2 %				
Addition	n Notebook B	attery Information:						
Yes		No	n/a	This notebook computer is operated by battery/ies that cannot be access by a non-professional user.	sed and replaced			
(Battery replacea	<b>not</b> user able)	(Battery user replaceable)		The battery[ies] in this product cannot be easily replact themselves	ced by users			

Additional information							