

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 *	Storage Systems	Logo		
Company name *	Lenovo			
Contact information *	Lenovo X86-STG Mod HW DE Rick Lin Lenovo Taiwan Branch 8F., No. 66, Sanchong Rd., Nangang Dist., Taipei City, Zipcode: 11502 Rlin12@lenovo.com	lenovo.		
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html			
Additional information				

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 prodct *	Storage			
Commercial name *	S3200/S2200/D1012/D1024/E1012/E1024			
Model number *	6411			
Issue date *	2015/11/11			
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		
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality contro such as organized by IT-Företagen (see www.itecodeclaration.org).	I 🔀	

Model number *	6411		
Issue date *	2015/11/11	Logo	lenovo.

Product	duct environmental attributes - Legal requirements					
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), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum					
P1.4*	concentration values. Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated	\square				
	terphenyl (PCT) in preparations (see legal reference).		<u> </u>			
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.			\boxtimes		
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)					
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	\boxtimes				
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, medical 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).	X				
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).		\Box	\square		
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 and hexavalent chromium by weight of these together.					
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).					
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.					

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

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Product	t environmental attributes - Market requirements - Environmental conscious design	equire	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 Piccocarble recording			
P7.1*	Disassembly, recycling Parts that have to be treated separately are easily separable			
P7.1*	Plastic materials in covers/housing have no surface coating.			<u> </u>
				-
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		<u>Ц</u>	Щ.
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		<u>Ц</u>	
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			
P7.10	Service is available after end of production for: 5 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
	Material type: Steel Material type: PC+ABS 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		\boxtimes	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.		$\overline{\sqcap}$	
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			
	Note B2)			
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking:			
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) , TBBPA (reactive) , Other; chemical name: , CAS #:			
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: <i>FR(16)</i>			
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, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	\boxtimes		
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
P8	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg Batteries mg			
P8.1*	Batteries Battery chemical composition: Lithium Manganese Dioxide			
P8.2	Batteries meet the requirements of the following voluntary program/s:			\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 nur	nber *	6411								
Issue date	*	2015/1	1/11				Logo	leno	VO.	
Product (environn			requirements (d	continued)			Poquire	mont	mot
Item	EIIVIIOIIII	ilentai attiit	Jules - Market I	requirements (t	<i>Jonanaea)</i>			Require Yes	No	n.a.
P9	Energy	consumption	1							
9.1	For the p	roduct the fol	lowing power leve	els or energy cons	umptions are rep	oorted:				
Energy mo	de *		Power level at -48 V DC	Power level at 115 V AC	Power level at 230 V AC	Reference / Sta method *	ndard for e	energy modes ar	nd test	
On-Peak(2	4 HDD FO	C HOST)	/W	393 W	391 W	Max Config., Str	ress syster	m to worst case		
On-Peak(2	24 HDD SA	AS HOST)	/W	389 W	384 W	Max Config., Str	ress syster	m to worst case		
On-Peak(2	24 HDD IS	CSI HOST)	/W	417 W	411 W	Max Config., Str	ress syster	m to worst case		
On-Idle(24	HDD FC	HOST)	/W	387 W	382 W	Make system po	ower on to	SVC with HIC		
On-Idle(24	HDD SAS	S HOST)	/W	384 W	365 W	Make system po	ower on to	SVC with HIC		
On-Idle(24	HDD ISC	SI HOST)	/W	387 W	365 W	Make system po	ower on to	SVC with HIC		
Off			/W	/W	/W	Make system po	ower off			
EPS No-lo	ad			W	W				-	
plugged in	the wall o	oly / charger utlet but se product.)								
PTEC *			W	W	W					
Typical En	ergy Cons	umption								
TEC * Typical Energy Consumption		kWh/week	kWh/week	kWh/week						
ETEC *									-	
Annual En	ergy Cons	umption								
Display res	solution* :	Megapixels								
Print Spee	d * :	Image	es per minute							
Default tim	e to enter	energy save	mode: minutes							
P9.2*				tion is provided wit	th the product.					
P9.3*	57 1									
P10	Emissio	ns								
D10 1			clared according t	to ISO 9296	Dodorod		Doctored	A-weighted		
P10.1	Mode	iviode de	escription		Declared A-weighted	d sound		A-weignted level L_{pAm} (dB))	
					sound power	er		Bystander po		-
					level L_{WAd} (sktop	Dystaliasi po		
						or Desk	. =	(only if product operator atte		

6.75

6.75

Other (only if not covered by ECMA-74 with L_{pAm} measurement distance The product meets the acoustic noise requirements of the following voluntary program/s:

Idle

P10.2

Operation

Other mode

Powered on – No disk activity

Measured according to: ☐ ISO7779 ☐ ECMA-74

Unit operating under typical load

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Issue date	*	2015/11/11	Logo	leno	VO.	
Product 6	environn	nental attributes - Market requirements (continued)		Require	emen	t met
Item		(Yes	No	n.a.
	Chemica	al emissions from printing products				
P10.3*		formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				\boxtimes
P10.4		emission rate (print phase) is (mg/h):				
	• •	Dust Ozone Styrene Benzene TVOC				
P10.5	Chemica	all emission requirements of the following voluntary program/s are met for :	TVOC			
		nagnetic emissions				
P10.6	program		owing volunta	ary 🔲		
P11		nable materials for printing products				
P11.1*		Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requ	•			\boxtimes
P11.2*	EN1228		e requireme	nts of		\boxtimes
P11.3*	2-sided (duplex) printing/copying is an integrated product function.				\boxtimes
P12		nics for computing products				
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technological	gies.			\boxtimes
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.					
P13	Packagi	ng and documentation				
P13.1*	Product Product Product	packaging material type(s): Corrugated weight (kg): 3.72 packaging material type(s): LDPE weight (kg): 0.05 packaging material type(s): EPE weight (kg): 1.2				
P13.2*	Product	plastic packaging is free from PVC.				
P13.3*		media for user and product documentation (tick box): ic 🔯, Paper 🔯, Other 🗔				
P13.4*		er user and product documentation, please specify contained percentage of post-co	nsumer recy	cled		
P14		nal information (See Note B4)				
DO.	informati knowledge provided informati		nt is provided nte such infor nccount Repr	based on sup mation. The in resentative for	plier's nforma more	tion
P9		ergy Star Qualified Enterprise Servers for the latest information: http://www.er s/detail/enterprise-servers	nergystar.go	v/products/c	ertifie	01-

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