

ECMA/TC38-TG3/2015/026 (Rev. 1 - 15 April 2015)

Annex B2 - Product environmental attributes Workstations and Servers

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Loge	0
Company name *	Lenovo		
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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/ecodeclaration			

	based on product specification or test results based obtained from sample testing), that the product nts given in this declaration.
Type of product *	Server
Commercial name *	Think system HR650X
Model number *	7X57
Issue date *	2018-03-22
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.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template: P4.1 – P4.3 Consumable materials P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products P11.1 - P11.3 Consumable materials for printing products

Model n	umber *	7X57 Logo			
Issue da	ate *	2018-03-22	Leno		D _{TM}
Produc	t environ	mental attributes - Legal requirements	Require	ment	met
Item			Yes	No	n.a.
P1		ous substances and preparations			
P1.1*	Products	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\square		
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	\square		
P1.3*	Products hydrobro trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), pmofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- ethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum ration values.			
P1.4*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated yl (PCT) in preparations (see legal reference).	\boxtimes		
P1.5*	Product	s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ontaining at least 48% per mass of chlorine in the SCCP (see legal reference).	•		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.			
P1.7*		Article 33 information about substances in articles is available at (add URL or mail contact): ww.lenovo.com/social_responsibility/us/en/environment.html	\boxtimes		
P2	Batterie	S			
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)	\square		
P2.2*	Batterie: referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal e)	\square		
P2.3*	Batterie	s and accumulators are readily removable. (See legal reference)	\square		
P3	Conform	nity verification & Eco design (ErP)			
P3.1*	The pro	duct is CE-marked to show conformance with applicable legal requirements (see legal reference). claration of Conformity can be requested at (add link or e-mail address):	\square		
	http://v	vww.lenovo.com/social_responsibility/us/en/ec_doc_servers/;			
	http://v	vww.lenovo.com/social_responsibility/us/en/ec_doc_systemx/			
P3.2*		duct complies with the Eco design requirements for energy-related products, al reference).	\square		
	Require	d information is; given in item P15 or added to this document, available at (add URL):			
P5	Product	t packaging			
P5.1*	Packagi	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium and ent chromium by weight of these together.	d 🔀		
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature of the material(s be legal reference).)		
P5.3*	The prod (see leg	duct packaging material is free from ozone depleting substances as specified in the Montreal Protoco al reference).	ol 🔀		
		nt: Legal reference has no maximum concentration values.			
P6		ent information			
P6.1*	Informat	ion for recyclers/treatment facilities is available (see legal reference).			

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model nu	umber *	7X57	Logo			
Issue dat	te *	2018-03-22		Len	ovo	тн
Product		mental attributes - Market requirements (See General NOTE GN				
		onmental conscious design		Require		
Item P7		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7.1*		Disassembly, recycling thave to be treated separately are easily separable			_	
P7.2*		haterials in covers/housing have no surface coating.			<u> </u>	<u> </u>
P7.3*		arts > 100 g consist of one material or of easily separable materials.			<u> </u>	<u> </u>
-					<u> </u>	<u> </u>
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	a se la la carala		<u> </u>	<u> </u>
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly a	available tools.		<u> </u>	<u> </u>
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).		\square		
P7.7*	Product					
		ng can be done e.g. with processor, memory, cards or drives			<u> </u>	<u> </u>
P7.8*		ig can be done using commonly available tools		\square		<u>Ц</u>
P7.9		arts are available after end of production for: years				
P7.10	Service i	s available after end of production for: years				
		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
P7.12		type: Steel Material type: PC+ABS Materia n materials of external electrical cables are PVC free.	al type:		\square	
P7.12		n materials of internal electrical cables are PVC free.		<u> </u>		<u>+</u>
P7.14		plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b	romino and 0.1%			<u> </u>
F7.14	weight (' polyvinyl	1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine i in 25% post-consumer recycled content.	e retardants, and	. –		
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all PCBs > 25 g ed in IEC 61249-2-21. (See 1NOTE B2)	are low haloger			
P7.16	Flame re Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:				
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c		_		
	TBBF	PA (additive), TBBPA (reactive) (See NOTE B3), Other: <i>chemical name</i> , CA	S #:			
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	ents) > 25 g			
P7.18		ame retarded plastic parts > 25 g contain the following flame retardant substance	es/preparations in	I		
	1. Chem 2. Chem	ations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: "				
		ical name: , CAS #: "		_	_	_
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 104				
P7.19		parts > 25 g, flame retardant substances/preparations above 0,1% are used which	n have been			
	0	I the following Risk phrases; and Hazard statements:				
D7 20*			See note B5)			
P7.20*	Posicons	sumer recycled plastic material content is used in the product (See Note B6):			\bowtie	
	a) Of t a pe or	t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material conter ercentage of total plastic by weight) is <i>0</i> %.	t (calculated as			

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	7X57	Logo	
Issue date *	2018-03-22		Lenovo.
Product environ	mental attributes - Market requirements (continued)		Requirement met

Item

Requirement metYesNon.a.

	Material and subs	tance requirements (continued)		
P7.21*			in the product (See NO	DTE B7):	
	a) Of total plastic total plastic by	c parts' weight > 25 g,	s below shall be answe the biobased plastic m	'	ated as a percentage of
	or b) The weight of	the biobased plastic m	naterial is g.		
P7.22*	Light sources are f		ess than 0,1 mg/lamp.	um mercury content pe	er lamp: mg
P8	Batteries	· ·	•		
P8.1*	Battery chemical c	omposition: <i>Lithium N</i>	langanese Dioxide		
P9		tion (See NOTE B8)			
P9.1			s or energy consumption		
Energy mo	ode "	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy X modes and test method *
Peak (On-	·max)	W	W	W	Full load
Categor	<u>y</u>				
Short Idle Enabled	State - WOL	W	W	W	Use for ENERGY STAR V6 registration (P _{idle})
Long Idle Enabled	State - WOL	W	W	W	Use for ENERGY STAR V6 registration (P _{idle})
Sleep (S3)) - WOL Enabled	W	W	W	Use for ENERGY STAR V6 registration(P _{sleep})
Sleep (S3)) - WOL Disabled	W	W	W	Reference
Off (S5) -	WOL Enabled	W	W	W	Use for ENERGY STAR V6 registration(P _{off})
Off (S5) -	WOL Disabled	W	W	W	Use for ErP
		W	W	W	Reference
Categor	V				
		14/	10/	10/	Deference
Short Idle Enabled	State - WOL	W	W	W	Reference
Long Idle Enabled	State - WOL	W	W	W	Reference
,) - WOL Enabled	W	W	W	Reference
,) - WOL Disabled	W	W	W	Reference
	WOL Enabled	W	W	W	Reference
Off (S5) -	WOL Disabled	W	W	W	Reference
		W	W	W	Reference
Categor	y				
	State - WOL	W	W	W	Reference

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

NOTE B9 A Guidance document on Acoustic Noise is available; see <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

Long Idle Enabled	State - WOL	W	W	W	Reference
Sleep (S3	8) - WOL Enabled	W	W	W	Reference
Sleep (S3	Sleep (S3) - WOL Disabled		W	W	Reference
Off (S5) -	WOL Enabled	W	W	W	Reference
Off (S5) -	WOL Disabled	W	W	W	Reference
		W	W	W	Reference
	supply / charger plugged in the	W	W	W	
PTEC *	isconnected from the product.)	W	W	W	
ETEC *	nergy Consumption	kWh/year	kWh/year	kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25)$ + $P_{sleep} \times 0.35 + P_{long_ldle} \times 0.10 + P_{short_ldle} \times 0.30)$
					led; Pidle: Idle State - WOL Enabled
External P	ower Supply Efficier	ncy Level (International	Efficiency Marking Prot	ocol) * :	
Display re	solution * : m	legapixels			
Default tim	ne to enter energy sa	ave mode: 25 minutes			\square
P9.2*	Information about	the energy save functio	n is provided with the p	roduct.	
P9.3	Energy efficiency	class (monitors only):			
P10	Emissions				
		- Declared according to	ISO 9296 (See NOTE		
P10.1		Node description			nit A-weighted sound power level, $L_{WA,c}$ (B)
		* HDD idle		* 6.1	
		* HDD Operating		* 6.8	
		Declared A-weighted sound		(operator p	osition desktop – idle)
	Other mode	Declared A-weighted sound	pressure level (dB) L_{pAm}	(operator p	osition desktop – operating)
	Measured accord		ECMA-74 (only if not covered by I	ECMA-74)	

Model nu	umber *	7X57				Logo			
Issue da	te *	2018-03-22					Leno	VO,	
Product	t environı	mental attribu	tes - Market requirement	s (continued)		•	Require	ment	met
Item							Yes	No	n.a.
		magnetic emiss							
P10.4	Comput program		the requirement for low frequ	ency electromagnetic	c fields of the foll	owing volunta	ary		
P12		mics for compu							
P12.1*		•	rgonomic requirements of ISC			gies.			\boxtimes
P12.2*	The phy	sical input devic	e meets the requirements of I	SO 9995 and ISO 924	41-410.				\boxtimes
P13	Packag	ing and docum	entation						
P13.1*	Product Product	packaging mate packaging mate	rial type(s): Paper - Corruga rial type(s): Paper - Corruga rial type(s): Plastic - Solid E rial type(s): Plastic - Solid E	ted single wall weight PE weight (kg): 1	ght (kg): 0.472 .284				
P13.2*	Product	plastic primary p	backaging is free from PVC.				\square		
P13.3*		duct primary con er recovered fibe	rrugated fiberboard packagin er content: 70%	g, specify the contai	ned percentage	of minimum	post-		
P13.4*	Specify		nd product documentation (tid	ck box):					
P13.5	Ùser an		nis item if paper documentation nentation on paper media is cl						
	Element	chlorine-free tal chlorine-free sed chlorine-free							
P14		ry programs							
P14.1	The pro	duct meets the r	equirements of the following v	oluntary program(s):					
	Eco-labo Eco-labo	el:	Criteria version: Criteria version: Criteria version:	Date: Date: Date:	Product of Product of Product of	category:			
P15			(See NOTE B10)						
P9			of specific configuration ma						
	informat knowled	tion contained in Ige available at t d here is approxi	no representations, guarantee this document. All information he time of completion, and su mate and provided for informa	n provided by supplier pplier shall have no o	r in this documer bligation to upda	nt is provided ate such infor	based on supp mation. The info	lier's ormati	on
P9	See Ene	ergy Star Qualifie	ed Notebooks & Tablet Comp ov/index.cfm?fuseaction=find_			code=CO			

NOTE B10 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 B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

Lenovo ErP Lot3 Information Sheet - Workstation/Server -

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:

Workstation, mobile workstation, desktop thin client, small-scale server and computer server

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

Commercial name	Think system HR650X	Logo	
Model Number	7X57		
Issue Date	2018-03-22		Lenovo.
Additional information			

(d)	Year of manufacture:			on product label		
e)	Internal/external power s	upply efficiency:				
	DPS-550AB-27 A					
	Power Efficiency :10%	01% 20% 93.64% 50% 94.82	<mark>%</mark> 100% 93.52%			
	Acbel FSG023-EL0G Power Efficiency :10%	00.53% 20% 93.2% 50% 94.6	56% 100% 93.21%			
	-					
(f)	Test parameters for mea — test voltage in V and f					
	— total harmonic distortion	on of the electricity supply system				
	 information and docur 	nentation on the instrumentation, se	et-up and circuits used for electrica	al testing:		
	Test Voltage : 230V, Fr	equency: 50Hz				
	 Total harmonic distortior 	n: <2%				
		entation on the instrumentation : Ple d for electrical testing: Please refer		Ι,		
(g)	Maximum power (Watts)			658.812		
(1.)				030.012		
(h)	Idle state power (Watts)	318.792				
(i)	Sleep mode power (Watt	Sleep mode power (Watts)				
				N/A		
(j)	Off mode power (Watts)			12.4968		
(1.4)			entioned in points (a).			
(l-1)		ygy used to determine information m utions measurement methodology				
(I-2)	Measurement methodolo	gy used to determine information m	entioned in maximum, idle, sleep,	off mode power as defined in		
· · ·	Point P9.1 in the Product			·		
	IEC 62623 / IEC EN5056	64:2011 measurement methodolog	gy			
	nal information					
luuntie		entation on the instrumentation				
	Instrument I.D.	Instrument Type	Range Used	Make and Model		
		institutient type	-			
	A8	AC POWER SOURCE	1~280VAC;1~550HZ;1000VA	EC1000S; SN:9136092		
	B43	Digital Watch	Full range	HS-70W; SN:107Q05R		
	B45	Power Meter	0~600V;0~20A	WT210;SN:27D941999		
	B48	Humidity/Temperature Sensor	15~30℃;12~89%RH	Watchport/H;SN:W11492318		

