



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					
Company name *	Lenovo					
Contact information *	Lenovo Global Environmental Affairs					
e-mail address	Alvin L Carter	Lenovo				
	lcarter@lenovo.com					
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					

The company declares (The company declares (based on product specification or test results based obtained from sample testing), that the product					
conforms to the statemen	conforms to the statements given in this declaration.					
Type of product *	Type of product * Server					
Commercial name *	I name * Thinksystem HR610X					
Model number *	7Z68					
Issue date *	20190319					
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 number *		7Z68	Logo	Lone		
Issue date *		20190319		Lend	JVC	J _{TM}
Product environm		mental attributes - Legal requirements		Require	men	t met
Item				Yes	No	n.a.
P1		ous substances and preparations				
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)					
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.				
P1.3*	Products hydrobro trichloroe	do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), omofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrach ethane, methyl bromide (see legal reference). Comment: Legal reference has no mation values.				
P1.4*		do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychol (PCT) in preparations (see legal reference).	lorinated			
P1.5*		odo not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 cart ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in the	e 🔀		
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/weel (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.					
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	contact):			
P2	Batterie	S				
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with t Information on proper disposal is provided in user manual. (See legal reference)	he disposal			
P2.2*	Batteries referenc	or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	iium. (See lega	I 🔀		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)		\boxtimes		
P3	Conforn	nity verification & Eco design (ErP)				
P3.1*		fuct is CE-marked to show conformance with applicable legal requirements (see leg laration of Conformity can be requested at (add link or e-mail address):	jal reference).			
P3.2*		duct complies with the Eco design requirements for energy-related products, al reference).				
	Required information is; given in item P15 or added to this document, available at (add URL):					
P5	Product	packaging				
P5.1*	Packagii	ng and packaging components do not contain more than 0,01% lead, mercury controlled by weight of these together.	/, cadmium an	d 🔀		
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material (see legal reference).			s) 🔀		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protoco (see legal reference). Comment: Legal reference has no maximum concentration values.		ol 🔀			
P6		nt information				
P6.1*		on 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 number *	7Z68	Logo	Lonovo
Issue date *	20190319		LEI IOVO.

Product	environmental attributes - Market requirements (See General NOTE GN below)			
Itama		Require		
Item P7	*=mandatory to fill in. Additional information regarding each item may be found under P14. Design, Disassembly, recycling	Yes	No	n.a.
P7.1*	Parts that have to be treated separately are easily separable			
P7.2*	Plastic materials in covers/housing have no surface coating.			
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	X		
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		H	H
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.			
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		\vdash	\blacksquare
11.0	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			
P7.8*	Upgrading can be done using commonly available tools	\overline{X}		
P7.9	Spare parts are available after end of production for: years			
P7.10	Service is available after end of production for: years			H
1 7.10	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
	Material type: Steel Material type: PC+ABS Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.			
P7.13	Insulation materials of internal electrical cables are PVC free.			
P7.14	External plastic casing/cover parts > 25 g 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, an polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containin			
	more than 25% post-consumer recycled content.	J		
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low haloge	n \square		
	as defined in IEC 61249-2-21. (See 1NOTE B2)			
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:			
D7.47	Marking:			
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: chemical name, CAS #:			
		ш	ш	
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:			
	· ·			
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations i concentrations above 0.1%:	n _		
	1. Chemical name: , CAS #: (See NOTE B4)		Ш	
	2. Chemical name: , CAS #: "			
	3. Chemical name: , CAS #: "			
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:			
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been			Ī
	assigned the following Risk phrases; and Hazard statements:	_		
	The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):		\boxtimes	
	If VEC; at least one of the two alternatives helpy shall be answered:			
1	If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as			
	a percentage of total plastic by weight) is 0% .			
	or			
	b) The weight of recycled material is g.			

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 *	7Z68	Logo	Lonovo
Issue date *	20190319		LEI IOVO.

Product environmental attributes - Market requirements (continued)	Requi	remer	nt met
Item	Yes	No	n.a.

	Material and substance requirements (continued)							
P7.21*			in the product (See NO	OTE B7):				
	If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or							
		the biobased plastic m	naterial is g.					
P7.22*	Light sources are f	ree from mercury, i.e. I	ess than 0,1 mg/lamp.		\boxtimes \square			
		specify: Number of lam	nps: and maximu	um mercury content pe	er lamp: mg			
P8	Batteries Battery chemical composition: Lithium Ion							
P8.1*		•	on					
P9	Energy consumption (See NOTE B8) For the product the following power levels or energy consumptions are reported:							
Energy mo		Power level at	Power level at	Power level at	Reference/Standard for energy			
Lifeigy ino	ue	100 V AC	115 V AC	230 V AC	Reference/Standard for energy 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 (Pidle)			
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})			
,	- WOL Disabled	W	W	W	Reference			
Off (S5) - I	WOL Enabled	W	W	W	Use for ENERGY STAR V6 registration(Poff)			
Off (S5) - 1	WOL Disabled	W	W	W	Use for ErP			
		W	W	W	Reference			
Categor	<u>y</u>							
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			
, ,	NOL Enabled	W	W	W	Reference			
Off (S5) - I	NOL Disabled	W	W	W	Reference			
		W	W	W	Reference			
Categor	<u>y</u>							
Short Idle Enabled	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 http://www.ecma-international.org/publications/standards/Ecma-370.htm

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

Long Idle Enabled	State - WOL	W	W	W	Reference		
Sleep (S3)) - WOL Enabled	W	W	W	Reference		
Sleep (S3)) - WOL Disabled	W	W	W	Reference		
Off (S5) -	WOL Enabled	W	W	W	Reference		
Off (S5) -	WOL Disabled	W	W	W	Reference		
		W	W	W	Reference		
EPS No-lo	ad	W	W	W			
(External power wall outlet but dis	supply / charger plugged in th sconnected from the product.)	ne					
PTEC * Typical En	ergy Consumption	W	W	W			
ETEC * Annual Energy Consumption		kWh/year	kWh/year	kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.25 + P _{sleep} x 0.35 + P _{long_idle} x 0.10+ P _{short idle} x 0.30)		
					led; P _{idle} : Idle State - WOL Enabled		
External P	ower Supply Efficie	ency Level (International	Efficiency Marking Pro	tocol) * :			
Display res	solution * : ı	megapixels					
Default tim	ne to enter energy	save mode: minute	es				
P9.2*	Information abou	it the energy save functio	n is provided with the p	product.			
P9.3	Energy efficiency	v class (monitors only):					
P10	Emissions	, , , , , , , , , , , , , , , , , , , ,					
		- Declared according to	ISO 9296 (See NOTE	B9)			
P10.1	Mode	Mode description	,		nit A-weighted sound power level, L _{WA,c} (B)		
	Idle	* system boot into OS, running	no application	* 6.3			
	Operation	* stress CPU to 100%		* 8.3			
	Other mode	Declared A-weighted sound	pressure level (dB) $L_{p m Am}$	(operator position desktop – idle)			
Other mode Declared A-weighted sound pressure level (dB) L_{pAm} (operator position desktop – operating							
	Measured according to: ISO 7779 ECMA-74 Other (only if not covered by ECMA-74)						

Model number *		7Z68				Logo	Long		
Issue date	*	20190319					Lenc		н
Product	environn	nental attributes	- Market requiremen	ts (continued)			Require	ment	met
Item			•	,			Yes	No	n.a.
	Electron	nagnetic emission	s						
P10.4	Compute		requirement for low frequency	uency electromagne	tic fields of the foll	owing voluntar	у		
P12		nics for computing							
P12.1*	The disp	lay meets the ergor	omic requirements of ISO	O 9241-307 for visua	ıl display technolo	gies.			\boxtimes
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.								
P13		ng and documenta							
P13.1*	Product Product	packaging material packaging material	type(s): Paper - Corruga type(s): Paper - Corruga type(s): Plastic - Solid E type(s): Plastic - HDPE	ated single wall w	eight (kg): 0.165 1.795				
P13.2*	Product	plastic primary pack	aging is free from PVC.						
P13.3*		luct primary corrug	ated fiberboard packagir ontent: 30 %	ng, specify the cont	ained percentage	of minimum p	post-		
P13.4*			product documentation (ti Other	ck box):					
P13.5	Ùser and		em if paper documentation at land a l						
	Totally c	hlorine-free							
	•	al chlorine-free					H		
	Processe	ed chlorine-free							
P14	Volunta	ry programs							
P14.1	The proc	luct meets the requi	rements of the following	voluntary program(s):				
	ENERGY STAR® Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category:								
P15		nal information (Se							
P9			ecific configuration ma						
	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			otebooks & Tablet Comp dex.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