



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

Annex B2 - Product environmental attributes Network Equipment

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	Logo		
Company name *	Lenovo			
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Additional information	e latest version of this document can be found at:			
	http://www.lenovo.com/ecodeclaration			

The company declares (based on product specification or test results based obtained from sample testing), that the product
conforms to the statemen	nts given in this declaration.
Type of product *	Smart Display
Commercial name *	Lenovo Smart Display 7
Model number *	ZA5K
Issue date *	2019-9-6
Intended market *	☐ Global 区 Europe ☐ Asia, Pacific & Japan 🛛 Americas 🖂 Other <i>Canada</i>
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 nu	mber *	ZA5K	Logo	Long	N/4	
Issue dat	e *	2019-9-6		Lend) тм
Product	environ	mental attributes - Legal requirements		Require	men	met
Item				Yes	No	n.a.
P1	Hazardo	ous substances and preparations				
P1.1*	Products	s do comply with current European RoHS Directive. (See legal reference and NOTE	B1)	\boxtimes		
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.				
P1.3*	hydrobro trichloro	s 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*	terpheny	s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych l (PCT) in preparations (see legal reference).				
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 wit	h direct and prolonged skin contact do not release nickel in concentrations above 0 al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	,5 μg/cm²/week			
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail oww.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	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	nium. (See lega	I 🔀		
P2.3*		and accumulators are readily removable. (See legal reference)			\boxtimes	
P3	Conforn	nity verification & Eco design (ErP)				
P3.1*		duct is CE-marked to show conformance with applicable legal requirements (see legal requirements) laration of Conformity can be requested at: https://www.lenovo.com/us/en/complian				
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,			\boxtimes		
		available at: https://www.lenovo.com/us/en/compliance/e	eco-declaration			
P5		packaging				
P5.1*		ng and packaging components do not contain more than 0,01% lead, mercury ent chromium by weight of these together.	y, cadmium an	d 🔀		
P5.2*	used (se	caging materials are marked with abbreviations and numbers indicating the nature of elegal reference).	,	,		
P5.3*			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 *	ZA5K	Logo	Lanava
Issue date *	2019-9-6		Lei IOVO.

Product	t environmental attributes - Market requirements (See General NOTE GN below)			
	- Environmental conscious design	Require	ment	met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P7	Design, Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable			Щ_
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.	\boxtimes	<u>Ц</u>	
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\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			
P7.8*	Upgrading can be done using commonly available tools		\boxtimes	
P7.9	Spare parts are available after end of production for: 1 years			
P7.10	Service is available after end of production for: 1 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: PC+20%GF Material type: PC+ABS Material type: POM			
P7.12	Insulation materials of external electrical cables are PVC free.		\square	
P7.13	Insulation materials of internal electrical cables are PVC free.	-		\overline{H}
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%	%		+
1 7.14	weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, an			Ш
	polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing	g		
D7.45	more than 25% post-consumer recycled content.			
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low haloge as defined in IEC 61249-2-21. (See 1NOTE B2)	n 🔀		
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: >PC-GF20FR40<;>PC+ABS-FR25<			
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: DOPO , CAS #: 35948-25-5	\boxtimes		Ш
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:			\boxtimes
D7.40	•			
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations is concentrations above 0.1%:	ın 🖂		
	1. Chemical name: <i>Bisphenol diphenyl phosphate</i> , CAS #: 181028-79-5 (See NOTE B4)		Ш	Ш
	2. Chemical name: POTASSIUM NONAFLATE, CAS #: 29420-49-3			
	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	\boxtimes		
	assigned the following Risk phrases; R43;R36/37/38 and Hazard statements: H411 The source(a) for these elegifications is large found, et. (add LIRI (a)):			
	The source(s) for these classifications is/are found at (add URL(s)): https://www.chemblink.com/MSDS/MSDSFiles/181028-79-5_Clear%20Synth.pdf,			
	https://www.guidechem.com/reference/dic-31822.html#Safety (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):		\boxtimes	
	ICVEO at least one of the transition of the standard make the stan			
	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 %.			
	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 *	ZA5K	Logo	Lanava
Issue date *	2019-9-6		Lei IOVO"

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

	Material and sub	stance requirements	(continued)			
P7.21*	Biobased plastic r	naterial content is used	I in the product (See NO	OTE B7):		
	If YES; at least or	ne of the two alternative	es below shall be answe	ered;		
			the biobased plastic ma	aterial content (calcula	ted as a percentage of	
	total plastic b	by weight) is %.				
	or b) The weight o	of the biobased plastic r	naterial is g.			
P7.22*			less than 0,1 mg/lamp.			$\overline{\mathbf{x}}$
		specify: Number of lan	nps: and maximu	um mercury content pe		
P8	Batteries	.,,			<u> </u>	_
P8.1*	,					<u> </u>
P9		otion (See NOTE B8)				
P9.1			s or energy consumption		To 6 101 1 1 6	_
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 modes and test method *	\leq
Peak (On-	max)	W	W	W	Full load	
EPS No-loa	ad	0.0496 W	0.053 W	0.087 W		
(External power s	supply / charger plugged in the sconnected from the product.)					
PTEC *	sconnected from the product.)	W	W	W		<u>a</u>
	ergy Consumption					7
ETEC *		kWh/year	kWh/year	kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.45)$	$\overline{\langle}$
Annual En	ergy Consumption				+ P _{sleep} x 0.05 + P _{long_Idle} x 0.15+ P _{short_Idle} x 0.35)	
		P _{off} : Off Mode(S	S5) - WOL Enabled; Psleep	: Sleep Mode(S3) - WOL	Enabled; P _{idle} : Idle State - WOL Enabled	
External Po	ower Supply Efficie		Efficiency Marking Pro			
Display res	solution * : 0.614 m	egapixels				
Default tim	e to enter energy s	ave mode: minu	tes			<
P9.2*	Information about	the energy save function	on is provided with the p	product.		
P9.3	Energy efficiency	class (monitors only):				<
P10	Emissions					
	Noise emission -	 Declared according to 	ISO 9296 (See NOTE	B9)		
P10.1		Mode description		Statistical upper limi	t A-weighted sound power level, LwA,c (B)	
	Idle	* HDD:Idle		*		<u> </u>
	Operation	* HDD: Operating		*		<u> </u>
			d pressure level (dB) $L_{p{ m Am}}$		sition desktop – idle)	
	Other mode	Declared A-weighted soun	d pressure level (dB) $L_{p{ m Am}}$	(operator po	sition desktop – operating)	
	Measured accord	· = -	-			
	I	Other	(only if not covered by	ECMA_74)		

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

Model nun	nber *	ZA5K					Logo	Long	1/0	
Issue date	*	2019-9-6						Leno	VO.	н
Product 6	environn	nental attributes	- Market requirem	nents (con	tinued)			Require	ment	met
Item								Yes	No	n.a.
		nagnetic emission								
P10.4	program((s):	lay meets the requirement for low frequency electromagnetic fields of the following voluntary							
P12		nics for computing								
P12.1*	The disp	lay meets the ergon	omic requirements of	f ISO 9241-3	07 for visua	al display technolo	gies.			\boxtimes
P12.2*	The phys	sical input device me	eets the requirements	s of ISO 9995	5 and ISO 9	241-410.				\boxtimes
P13		kaging and documentation								
P13.1*	Product Product	packaging material t packaging material t packaging material t	type(s): Paper type(s): Cushion	weight (kg) weight (kg) weight (kg)	: 0.053					
P13.2*			aging is free from PV							
P13.3*	consume	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: 70 %								
P13.4*			product documentatio Other	on (tick box):						
P13.5	Ùser and		em if paper documen ation on paper media		ree:					
	•	hlorine-free al chlorine-free								
	Processe	ed chlorine-free								
P14		ry programs								
P14.1	The prod	luct meets the requi	rements of the follow	ing voluntary	program(s):				
	Eco-labe Eco-labe	l:	Criteria version: Criteria version: Criteria version:		Date: Date: Date:	Product	category: category: category:			
P15		al information (Se								
P9			ecific configuration						- 11	
	information knowledge provided information	on contained in this ge available at the ti here is approximate on.	epresentations, guara document. All inform me of completion, an e and provided for inf	nation provide nd supplier sh formational p	ed by suppli nall have no urposes on	ier in this documer obligation to upda ly. See a Lenovo	nt is provided ba ate such informa	ased on suppation. The in	olier's format	ion
P9		w.energystar.gov/in	otebooks & Tablet Codex.cfm?fuseaction=	find_a_produ	uct.showPro	oductGroup&pgw_	_code=CO			
P3.2		3 of 22 August 201	ulation (EC) No 127 3 implementing Dire rements for ErP Lot:	ective 2009/			Commission land of			0

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 Lot26 Information Sheet

- Network Equipment -

As required by_

- Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off-mode electric power consumption of electrical and electronic household equipment (ErP Lot 6)
- Commission Regulation (EU) No 801/2013 of 22 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for (ErP Lot 26).

Products scope of this sheet:

Smart Speaker, Smart Router

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

Commercial name	Lenovo Smart Display 7	Logo
Model Number	ZA5K	Lopovo
Issue Date	2019-9-6	Lenovo
Additional information		

year of manufacture:	2019
Standby and off mode	
Power consumption data	As the product needs to be activated over voice command at any time, Lenovo smart display is inappropriate to have a standby and off mode.
Power in off Mode or similar mode	NA NA
the measurement method used	Power off value tested in accordance with IEC EN50564:2011 measurement methodology.
a description of how the equipment mode was selected or	To achieve the off mode, the power adapter must be
programmed,	disconnected
	As product needs to be activated over voice command at any
the sequence of events leading to the condition where the	time, the smart display is inappropriate to provide a power
equipment automatically changes modes,	management function that automatically switches the product
	to standby and off mode
any notes regarding the operation of the equipment, e.g.	As the product needs to be activated over voice command at
information on how the user switches the equipment into a	any time, smart display is inappropriate to provide network
condition having networked standby,	standby mode.
if applicable, the default time after which the power	As the product needs to be activated over voice command at
management function, or similar function, has switched the	any time, smart display is inappropriate to provide a power
equipment into the applicable low power mode or condition;	management function that automatically switches the product
equipment into the applicable low power mode of condition,	to standby and off mode.

(3) Network equipment,

whether the equipment is networked equipment; which kind of networked equipment: specify whether the equipment is HiNA equipment or equipment with HiNA functionalities. the number and type of network ports and, with the exception of wireless network ports, where these ports are located on the equipment; in particular it shall be declared if the same physical network port accommodates two or more types of network ports,

Lenovo smart display is a networked equipment without HiNA functionalities.

There are no wired network ports on smart display

whether all network ports are deactivated before delivery,

Wifi and Bluetooth are switched on and Wifi is opened before delivery

the default time after which the power management function, or a similar function, switches the equipment into a condition providing networked standby

As product needs to be activated over voice command at any time, smart display is inappropriate to provide network standby mode and inappropriate to provide a power management function that automatically switches the product to network standby mode.

To deactivate and reactivate wifi, use the same Wi-Fi

the (maximum) power consumption of the equipment in a condition providing networked standby into which the power management function, or a similar function, will switch the equipment, if only this port is used for remote activation,

the trigger that is used to reactivate the equipment

network for your Lenovo Smart Display and phone/tablet As product needs to be activated over voice command at any time, smart display is inappropriate to provide network standby mode and inappropriate to provide a power management function that automatically switches the product to network standby mode.

the communication protocol used by the equipment;

communication protocol: 802.11ac/a/b/g/n, BT4.2, MIMO 2X2

(4) Test parameters for measurements,

	ambient temperature,	refer to test report
	test voltage in V and frequency in Hz,	refer to test report
	total harmonic distortion of the electricity supply system,	2%
	information and documentation on the instrumentation, set-	refer to testing star
	up and circuits used for electrical testing	

ing standard

Equipment characteristics,

1(c), or the requirements set out in points 2(c) and/or 2(d) and/or 3(b), as applicable, including the time taken to automatically reach standby, or off mode, or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode.

In particular, if applicable, a technical justification shall be provided that the requirements set out in point 1(c), or the requirements set out in points 2(c) and/or 2(d) and/or 3(b), are inappropriate for the intended use of equipment. The need to maintain one or more network connections or to wait for a remotely initiated trigger is not considered a technical justification for exemption from the requirements set out in 2(d) in the case of equipment that is not defined as networked equipment by the manufacturer.';

Due to product needs to be activated over voice command at any time, smart assistant is inappropriate to automatically switch to standby or off mode;

(5) External power supply efficiency (if applicable)*:

Average active efficiency: 30W 83.6%

*internal note: show values for all available external power supplies

Measurement methodology used to determine information mentioned in points (5) – external PSU efficiency: (6)

Annex I(b)Of 2009/125/EC and Commission Regulation (EC)No 278/2009

Additional information