



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		121			
Contact information *	Lenovo Global Environmental Affairs		Lenovo			
e-mail address	Alvin L Carter		LETIONO			
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Additional information	The 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 statements given in this declaration.					
Type of product *	HiNA Equipment				
Commercial name *	Lenovo ThinkSmart Hub 500				
Model number *	10V5, 10V6				
Issue date *	2018/01/02				
Intended market *	☐ Global 区 Europe ☐ Asia, Pacific & Japan 🛛 Americas ☐ Other China				
Additional information	GreenGuard				

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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

Woder Humber		10V5, 10V6	Logo	Lend		
Issue dat	e *	2018/01/02		Leik		тм
Product	environ	mental attributes - Legal requirements		Require	men	t 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)	\boxtimes		
P1.2*	Products Commer					
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*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych /l (PCT) in preparations (see legal reference).	lorinated			
P1.5*		s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carl ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in th	ie 🔀		
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week (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 contact): http://www.lenovo.com/social_responsibility/us/en/environment.html					
P2	Batterie	s				
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with Information on proper disposal is provided in user manual. (See legal reference)	the disposal			
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)					
P2.3*	Batteries	s 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) duration of Conformity can be requested at: https://www.lenovo.com/us/en/compliar				
P3.2*	The prod	duct complies with the Eco design requirements for energy-related products, al reference).		\boxtimes		
		d information is; given in item P15 or added to this document, available at: https://www.lenovo.com/us/en/compliance/e	aco-declaration			
P5	Product	packaging	oc decidiation			
P5.1*	Packagii	ng and packaging components do not contain more than 0,01% lead, mercury ent chromium by weight of these together.	y, cadmium ai	nd 🔀		
P5.2*	The pack	kaging materials are marked with abbreviations and numbers indicating the nature se legal reference).	of the material(s)		
P5.3*	The pro	duct packaging material is free from ozone depleting substances as specified (see legal reference). nt: Legal reference has no maximum concentration values.	in the Montre	al 🔀		

Madalasassas

P6 P6.1*

Treatment information

Information 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 *	10V5, 10V6	Logo	Longvo
Issue date *	2018/01/02		Lei Iovo

Product	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		Ц_	
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		
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		\boxtimes	
P7.8*	Upgrading can be done using commonly available tools		\boxtimes	
P7.9	Spare parts are available after end of production for: 2 years			
P7.10	Service is available after end of production for: 2 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
	Material type: PC+ABS Material type: Material type: STEEL			
P7.12	Insulation materials of external electrical cables are PVC free.		\boxtimes	
P7.13	Insulation materials of internal electrical cables are PVC free.		\boxtimes	
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, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts			
	containing more than 25% post-consumer recycled content.	,		
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low	/	\boxtimes	
	halogen 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: 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:, CAS #:	\boxtimes		
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g			
	according ISO 1043-4:			\boxtimes
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in	<u> </u>		
1 7.10	concentrations above 0,1%:	· 🖂		\boxtimes
	1. Chemical name: , CAS #: (See NOTE B4)			
	2. Chemical name: , CAS #: "			
	3. Chemical name: , CAS #: "			
	<u>Alt. 2:</u> Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:			\boxtimes
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been			
	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):	\bowtie		
	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 73.9%.			
	Of h) The weight of recycled material is 200 g			
	b) The weight of recycled material is 390 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 * 10V5, 10V6 Log		Logo	Loro							
Issue date	*	2018/01/	02				Len	OVC) _{TM}	
Product e	environn	nental at	tributes - Market re	equirements (contin	ued)		Requir	remer	t met	
Item				-	•		Yes	No	n.a.	
	Material	and subs	tance requirements ((continued)						
P7.21*	Biobased	d plastic m	aterial content is used	in the product (See NC	OTE B7):			\boxtimes		
	 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 b) The weight of the biobased plastic material is g. 									
P7.22*				less than 0,1 mg/lamp.			X			
	If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg									
P8	Batteries									
P8.1*			omposition: Lithium M	langanese Dioxide						
P9			tion (See NOTE B8)							
P9.1		product the		s or energy consumptio		r <u> </u>				
Energy mode *			Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Stand modes and test r		nergy		
Peak (On-I	max)		W	W	W					
EPS No-load			W	W	W				\boxtimes	
(External power s wall outlet but disc										
PTEC *		,	W	W	W				\boxtimes	
Typical Ene	ergy Cons	umption								
ETEC *	•		kWh/year	kWh/year	kWh/year				\boxtimes	
Annual Ene	••									
External Po	ower Supp	oly Efficien	cy Level (International	Efficiency Marking Pro	tocol) * : VI				\boxtimes	
Display res	olution * :	: me	egapixels						\boxtimes	
Default time	e to enter	energy sa	ve mode: minut	es					\boxtimes	
P9.2*	Informati	ion about t	he energy save function	on is provided with the p	product.	1				
P9.3	Energy e	efficiency c	lass (monitors only):						\boxtimes	
P10	Emissio									
	Noise er			ISO 9296 (See NOTE	B9)					
P10.1	Mode	N	lode description		Statistical upper limit	A-weighted sound	d power leve	I, L _{WA,c}	(B)	
	Idle	*	HDD:Idle		* 2.5					
	Operatio		HDD: Operating		* 2.5					
	Other mo			d pressure level (dB) $L_{p m Am}$	17 (operator position					
	Other mo	ode D	eclared A-weighted sound	d pressure level (dB) $L_{p{ m Am}}$	17 (operator position	desktop – operatir	1g)			
	Measured according to: So 7779 ECMA-74 Other (only if not covered by ECMA-74)									

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

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

Model nun	nber *	10V5, 10V6	Logo	Leno	1/0	
Issue date	*	2018/01/02		Leno	VO,	
Product 6	environn	nental attributes - Market requirements (continued)		Require	ment	met
Item				Yes	No	n.a.
		nagnetic emissions				
P10.4	Compute program	er display meets the requirement for low frequency electromagnetic fields of the follo (s):	owing voluntary			
P12		nics for computing products				
P12.1*	-	lay meets the ergonomic requirements of ISO 9241-307 for visual display technolog	gies.			\boxtimes
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410.				\boxtimes
P13		ng and documentation				
P13.1*	Product p	packaging material type(s): <i>paper</i> weight (kg): <i>0.492</i> packaging material type(s): <i>plastic</i> weight (kg): <i>0.015</i> packaging material type(s): <i>plastic</i> weight (kg): <i>0.083</i>				
P13.2*		plastic primary packaging is free from PVC.		\boxtimes		
P13.3*	consume	uct primary corrugated fiberboard packaging, specify the contained percentageer recovered fiber content: 70 $\%$	of minimum po	st-		
P13.4*		nedia for user and product documentation (tick box): ronic, Paper, Other				
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free:					
	Elementa	nlorine-free al chlorine-free ed chlorine-free				
P14	Voluntai	ry programs				
P14.1		uct meets the requirements of the following voluntary program(s):				
	Eco-labe Eco-labe	I: Criteria version: Date: Product of	ategory:			
P15		al information (See NOTE B10)				
P9	Energy consumption of specific configuration may vary; description of the tested product configuration: 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					
	knowledo provided informati	ge available at the time of completion, and supplier shall have no obligation to upda here is approximate and provided for informational purposes only. See a Lenovo A on.	te such informat	ion. The inf	ormati	on
P9		rgy Star Qualified Notebooks & Tablet Computers for the latest information: w.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_				
P3.2		Commission Regulation (EC) No 1275/2008 of 17 December 2008; - 3 of 22 August 2013 implementing Directive 2009/125/EC of the European Parl 5 ecodesign requirements for ErP Lot26	Commission R iament and of t			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 ThinkSmart Hub 500	Logo
Model Number	10V5, 10V6	Lopovo
Issue Date	2018/01/02	Lenovo
Additional information	GreenGuard	

	year of manufacture:	2018			
	Standby and off mode				
	Power consumption data	As the product needs to be activated over motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 is inappropriate to have a standby mode.			
	Power in off Mode or similar mode	0.38w			
	the measurement method used	Power off value tested follow IEC 62623 / IEC EN50564:2011 measurement methodology			
	a description of how the equipment mode was selected or programmed,	To achieve the off mode, you need to press the power button and hold for 4 or more seconds to turn off, or access in administer mode to shut down the equipment			
	the sequence of events leading to the condition where the equipment automatically changes modes,	Due to product needs to be activated over motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 is inappropriate to have a standby mode			
	any notes regarding the operation of the equipment, e.g. information on how the user switches the equipment into a condition having networked standby,	Due to product needs to be activated over motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 is inappropriate to have a standby mode			
	if applicable, the default time after which the power management function, or similar function, has switched the equipment into the applicable low power mode or condition;	Due to product needs to be activated over motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 is inappropriate to have power management that automatically switch to standby mode			

(3) Network equipment,

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,

whether the equipment is networked equipment; which kind

Lenovo ThinkSmart Hub 500 is HiNA equipment

there are wired network ports on Lenovo ThinkSmart Hub 500.

whether all network ports are deactivated before delivery,

Blue tooth is closed and Wi-Fi 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

Due to product needs to be activated over motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 is inappropriate to provide standby mode and also inappropriate to have power management that automatically switch to network standby mode

the trigger that is used to reactivate the equipment

To reactive the Bluetooth, go into administer mode to activate Bluetooth

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,

Due to product needs to be activated over motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 is inappropriate to provide standby mode and also inappropriate to have power management that automatically switch to network standby mode

the communication protocol used by the equipment;

communication protocol: 802.11abgnac, BT4.2

(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 standard
up and circuits used for electrical testing	Telef to testing 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 motion sensor or touch panel at any time, Lenovo ThinkSmart Hub 500 (product name) is inappropriate to automatically reach standby, or networked standby mode;

(5)	External power supply efficiency (if applicable)*:					
	Average active efficiency: 90W 88.8%					
	*internal note: show values for all available external power supplies					
(6)	Measurement methodology used to determine information mentioned in points (5) – 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					
Addition	Additional information					