



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

Annex B2 - Product environmental attributes Notebooks and Tablets

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 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 * Notebook				
Commercial name *	IdeaPad Slim 3 16IRU8/IdeaPad 16s IRU8			
Model number *	82X8			
Issue date *	2023-3-13			
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 * Issue date *		82X8	Logo	Lend	N/0	
		2023-3-13		Lenc		TH.
Product	environi	mental attributes - Legal requirements		Require	ment	met
Item				Yes	No	n.a.
P1		us substances and preparations				
P1.1*		do comply with current European RoHS Directive. (See legal reference and NOTE	EB1)			
P1.2*		do not contain Asbestos (see legal reference). t: Legal reference has no maximum concentration value.		\boxtimes		
P1.3*	Products hydrobro trichloroe concentr					
P1.4*	terpheny	do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychl (PCT) in preparations (see legal reference).				
P1.5*		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).	bon atoms in th	ne 🔀		
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above (il reference). tt: Max limit in legal reference when tested according to EN1811:2011-5.),5 μg/cm²/wee	k 🔀		
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure					
P2	Batteries					
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with nformation on proper disposal is provided in user manual. (See legal reference)	the disposal	\boxtimes		
P2.2*	Batteries reference	or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	nium. (See lega	al 🔀		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)		\boxtimes		
P3	Conform	nity verification & Eco design (ErP)				
P3.1*	The Dec	uct is CE-marked to show conformance with applicable legal requirements (see leg aration of Conformity can be requested at (add link or e-mail address): www.lenovo.com/us/en/compliance/eu-doc for EU; www.lenovo.com/us/en/compliance/uk-doc for UK	gal reference).			
P3.2*		uct complies with the Eco design requirements for energy-related products, il reference).		\boxtimes		
	Required	information is; given in item P15 or added to this document, available at (add URL): www.lenovo.com/us/en/compliance/eco-declaration				
P5		packaging				
P5.1*	Packagir	ig and packaging components do not contain more than 0,01% lead, mercury int chromium by weight of these together.	y, cadmium a	nd 🔀		
P5.2*	The pack	aging materials are marked with abbreviations and numbers indicating the nature	of the material	(s) 🔀		
P5.3*	used (see legal reference). The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).					
		t: Legal reference has no maximum concentration values.				
		nt information			_	
P6.1*	Intormation	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 *		82X8	Logo	Lenovo		
Issue da	te *	2023-3-13		rend	DVC	ты
Product		mental attributes - Market requirements (See General NOTE GN				
Itom		onmental conscious design tory to fill in. Additional information regarding each item may be found under P14.	R	equire Yes		
Item P7		Disassembly, recycling		res	No	n.a.
P7.1*		at have to be treated separately are easily separable				
P7.2*		naterials in covers/housing have no surface coating.				Ħ
P7.3*	Plastic p	arts > 100 g consist of one material or of easily separable materials.			Ħ	Ħ
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			Ħ	Ħ
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.					Ħ
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).					
	Product	lifetime				
P7.7*		ng can be done e.g. with processor, memory, cards or drives		\boxtimes		
P7.8*	Upgradir	ng can be done using commonly available tools		\boxtimes		
P7.9	Spare pa	arts are available after end of production for: 5 years				
P7.10		s available after end of production for: 5 years				
		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum): type: <i>plastics(PC+ABS)</i> Material type: <i>Fe</i>				
P7.12	Insulatio	n materials of external electrical cables are PVC free.			\boxtimes	
P7.13	Insulation	n materials of internal electrical cables are PVC free.			\boxtimes	
P7.14	weight (* polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 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 in 25% post-consumer recycled content.	e retardants, and			
P7.15	Printed of	circuit boards, PCBs (without components) are low halogen: all 🔀 PCBs > 25 g 🗀 ed in IEC 61249-2-21. (See 1NOTE B2)	are low halogen			
P7.16	Flame re Marking:	starded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:		\boxtimes		
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without additive), TBBPA (reactive) (See NOTE B3), Other: , CAS #:	components):			
		nemical specifications of flame retardants in printed circuit boards (without compon- g ISO 1043-4:	ents) > 25 g			
P7.18	concentr 1. Chem 2. Chem 3. Chem	etarded plastic parts >25g contain the following flame retardant substance: ations above 0.1%: ical name: CAS #: ical name: , CAS #:	s/preparations in			
		al specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	assigned The sour 67/548/E					
P7.20*	If YES; a a) Of t a pe or	sumer recycled plastic material content is used in the product (See Note B6): at least one of the two alternatives below shall be answered; total plastic parts' weight > 25 g, the postconsumer recycled plastic material content ercentage of total plastic by weight) is 10.59%. The weight of recycled material is 79.01 g.	nt (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 *	82X8	Logo	Lenovo
Issue date *	2023-3-13		Lei Iovo.
Product environr	mental attributes - Market requirements (continued)		Requirement met
Item			Yes No n.a.

	Material and cube	tance requirements	(continued)			
P7.21*			d in the product (See N	OTE B7):		
	If YES; at least one a) Of total plastic	e of the two alternative	es below shall be answ the biobased plastic n	•	ted as a percentage of	
	or	the highered plactic	motorial ia			
P7.22*	Light sources are f		less than 0,1 mg/lamp			
P8	If mercury is used :	specify: Number of lar	mps: and maxim	num mercury content pe	r lamp: mg	
P8.1*		omposition: LI-ION Po	olvmer batterv			
P9	<u> </u>	tion (See NOTE B8)	,			
P9.1			ls or energy consumpti	ons are reported:		
Energy mod	de *	Power level at	Power level at	Power level at	Reference/Standard for energy	\boxtimes
Peak (On-i	max)	100 V AC	115 V AC	230 V AC	modes and test method * Full load	
•	<u> </u>				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Categor	<u>y 1</u>					
Short Idle Enabled	State - WOL	5.22 W	5.33 W	5.63 W	ENERGY STAR Computers V8	
Long Idle S Enabled	State - WOL	0.62 W	0.63 W	0.65 W	ENERGY STAR Computers V8	
Sleep (S3)	- WOL Enabled	0.62W	0.63W	0.65W	ENERGY STAR Computers V8	
Off (S5) - V	VOL Enabled	0.21 W	0.20 W	0.25 W	ENERGY STAR Computers V8	
EPS No-loa (External power s wall outlet but disc	ad supply / charger plugged in the connected from the product.)	0.09 W	0.09W	0.09W		
PTEC * Typical Ene	ergy Consumption	W	W	W		
ETEC * Annual Ene	ergy Consumption	16.62 kWh/year	16.93 kWh/year	17.91 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.25 + P _{sleep} x 0.35 + P _{long_ldle} x 0.10+ P _{short_ldle} x 0.30)	
		Poff: Off Mode(S5) - W	OL Enabled; Psleep: Sleep	o Mode(S3) - WOL Enable	d; Pidle: Idle State - WOL Enabled	
Categor	<u>y 2</u>					
Short Idle Enabled	State - WOL	5.70W	5.78W	6.05W	ENERGY STAR Computers V8 (P short idle)	
Long Idle S Enabled	State - WOL	0.45 W	0.49W	0.71W	ENERGY STAR Computers V8 (P long idle)	
Sleep (S3)	- WOL Enabled	0.45W	0.49W	0.71 W	ENERGY STAR Computers V8(P _{sleep})	
Off (S5) - V	VOL Enabled	0.23W	0.25 W	0.32 W	ENERGY STAR Computers V8(P off)	
EPS No-loa (External power s wall outlet but disc	ad supply / charger plugged in the connected from the product.)	0.09 W	0.09W	0.09W		
PTEC * Typical Ene	ergy Consumption	W	W	W		
ETEC * Annual Ene	ergy Consumption	17.26 kWh/year	17.67kWh/year	19.40 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)	

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

		Poff: Off Mode(S5) - WOL Enabled; Psleep: Sleep I	Mode(S3) - WOL Enabled; Pidle: Idle State - WOL Enabled	
External F	Power Supply Effic	ciency Level (International Efficiency Marking Prot	ocol) *: VI	
Display re	esolution * : 2.304	megapixels		
Default tir	me to enter energy	y save mode: 5 minutes		
P9.2*	Information abo	out the energy save function is provided with the p	roduct.	
P9.3	Energy efficiency class (monitors only):			
P10	Emissions			
	Noise emissio	n - Declared according to ISO 9296 (See NOTE I	B9)	
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, L _{WA,c} (B)	
	Idle	* Idle (Operating)	* 2.5	
	Operation	* CPU:Operation	* 4.4	
	Other mode	Declared A-weighted sound pressure level (dB) $L_{ m pAm}$	15.5 (operator position desktop – idle)	
[33.4 (operator position desktop – operating)			
		Other (only if not covered by E	ECMA-74)	

Model number *		82X8			Logo	Long	V/0	
Issue date	*	2023-3-13				Leno	VO.	
Product e	nvironn	nental attributes - M	larket requirements (con	tinued)		Require	ment	met
Item			•	•		Yes	No	n.a.
	Electron	nagnetic emissions						
P10.4		r display meets the req s): MPR-II(3 pin AC ac	uirement for low frequency el dapter only)	ectromagnetic fields	s of the following voluntary			
P12		nics for computing pro						
P12.1*		•	ic requirements of ISO 9241-3					
P12.2*	The phys	ical input device meets	the requirements of ISO 999	5 and ISO 9241-41	0.	\boxtimes		
P13		ng and documentatior						
P13.1*	Product Product Product	packaging material type packaging material type packaging material type		weight (kg): 0.09 weight (kg): 0.015	g): 0.360 weight (kg): 0.08 weight (kg): 0.003			
P13.2*		plastic primary packagir		,	V V U /	\boxtimes		\Box
P13.3*		uct primary corrugated	fiberboard packaging, spec nt: 82 %	cify the contained p	percentage of minimum po			
P13.4*		nedia for user and prod c ⊠, Paper ⊠, Other	luct documentation (tick box):					
P13.5	Ùser and		if paper documentation used) n on paper media is chlorine-f					
	Elementa	nlorine-free al chlorine-free				\boxtimes		
	Processe	ed chlorine-free						
P14		y programs						
P14.1	The proc	uct meets the requirem	ents of the following voluntary	y program(s):				
	Eco-labe	I: EPEAT Cr I: Cr	riteria version: 8.0 riteria version: 1680.1 riteria version:	Date: 2020/7/15 Date: 2018 Date:	Product category: 1, 2 Product category: Product category:			
P15		al information (See N						
P9	Energy	consumption of speci	fic configuration may vary;	description of the	tested product configura	tion:		
	the information of the informati	mation contained in to 's knowledge available ion. The information p Representative for m		on provided by su and supplier shal te and provided fo	pplier in this document is I have no obligation to up r informational purposes	s provided l odate such	based	on
P9			tebooks & Tablet Computer www.energystar.gov/produc					

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 - PC / Notebook -

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:

Desktop computer, integrated desktop computer, and notebook computer

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

Commercial name	IdeaPad Slim 3 16IRU8/IdeaPad 16s IRU8	Logo	
Model number *	82X8		Lonovo
Issue date *	2023-3-13		Lenovo.
Additional information			

d)	Year of manufacture:				2022	
)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with				cards (dGfx) are	
)	Etec value (kWh) per ErP Lot 3 Categorienable	ry and capability adjust	ments applied when a	all discrete graphics	cards (dGfx) are	
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)	
	Memory over base [GB]	16				
ents ting	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
capability adjustments applied during testing	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
ability a lied du	Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
cap	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)	
	Category of discrete graphics Card(s)	N/A				
sults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	10.32				
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled					
g)	Idle state power demand (Watts);				3.26	
1)	Sleep mode power demand (Watts);				0.56	
)	Sleep mode with WOL enabled power d	emand (Watts) (where	enabled);		0.56	
)	Off mode power demand (Watts);				0.24	
()	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.24	
)	Internal power supply efficiency at 10 %	, 20 %, 50 % and 100 °	% of rated output pow	er (if applicable):		
	10% 20% 50%	100% Avera	ige			
n)	External power supply efficiency (if appli	cable)*:				
	Average active efficiency: 89.56%;91.8	3%;89.63%				
	*internal note: show values for all available external p	ower supplies				
0)	Minimum number of loading cycles that	the batteries can withst	and (applies only to r	otebook computers):	300CYCLES	
p-1)	Measurement methodology used to dete	ermine information men	tioned in points (I) – in	nternal PSU efficiency	:	
0-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:					

(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: EN 61960 measurement methodology						
(p-4)		dology used to determine information mentioned in r Point P9.1 in the Product IT Eco Declaration: EN 626					
(q)		or achieving a stable condition with respect to power surement methodology	demand::				
(r)		leep and/or off mode was selected or programmed: and/or off mode thru Windows operating system					
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: refer to power management, 5mins automatically reaches sleep mode						
(t)		te condition before the computer automatically researched the applicable power demand requirement		5			
(u)	Length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes):						
(v)		re the display sleep mode is set to activate after		5			
(w)		nergy-saving potential of power management function					
		lescribed in User Guide and Power Manager unde 16s IRU8 menu in all programs	er IdeaPad Slim 3 16IRU8/ IdeaPad				
(x)	User information on I	how to enable the power management functionality:					
	User information of	lescribed in User Guide and Power Manager unde 16s IRU8 menu in all programs	er IdeaPad Slim 3 16IRU8/ IdeaPad				
(z)	the electricity supply	measurements: — test voltage in V and frequency in system, — information and documentation on the insting: 230V, 50GHz, Total Harmonic Distortion <2 9	strumentation, set-up and circuits				
Addition	al Notebook Batter	v Information:					
		Battery[ies] <u>not</u> user replaceable	Battery[ies] user replaceable	n/a			
		The battery[ies] in this product cannot be easily replaced by users themselves. 1)					
Internal/b	ouilt-in Battery						
External/	External/detachable Battery						
Bios Bac	Bios Backup Battery						
Other:	Other:						
Additiona	Additional information						
				·			

The battery[ies] in this product cannot be easily replaced by users themselves.

Акумулаторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители. Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.

Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.
Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.
Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.

Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.

Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.

Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batterial/e batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente. Lietotăji paši nevar nomainīt šā ražojuma akumulatoru(-us).

Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti. A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni. II-batterija/batteriji f'dan iI-prodott ma tistax/jistgħux tiġi/jiġu sostitwita/i mill-utenti stess.

Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar. Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.

A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores. Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși. Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ.

Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati. Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa. Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.

Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.