



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	
Contact information *	Lenovo Global Environmental Affairs	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 Duet 5 12IRU8/XiaoXin Duet IRU8			
Model number *	83B3			
Issue date *	2023/2/20			
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.

xModel number *	83B3	Logo	Lenovo
Issue date *	2023/2/20		Lei IOVO.

Product	t environmental attributes - Legal requirements	Require	men	t met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	$\boxtimes$		
P1.2*	Products do not contain Asbestos (see legal reference).	$\boxtimes$		
	Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	$\boxtimes$		
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-			
	trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum			
D4 4*	concentration values.			
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated		Ш	
P1.5*	terphenyl (PCT) in preparations (see legal reference).  Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the	$\square$		
F 1.5	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).		Ш	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week	$\boxtimes$		
	(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):	$\boxtimes$		
	https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-			
	Disclosure			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal	$\boxtimes$	Ш	Ш
P2.2*	symbol. Information on proper disposal is provided in user manual. (See legal reference)  Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal		_	_
FZ.Z	reference)		ш	Ш
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	$\square$		
P3	Conformity verification & Eco design (ErP)			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference).	$\square$	$\overline{\Box}$	$\Box$
	The Declaration of Conformity can be requested at (add link or e-mail address):			
	https://www.lenovo.com/us/en/compliance/eu-doc for EU;			
	https://www.lenovo.com/us/en/compliance/uk-doc for UK			
P3.2*	The product complies with the Eco design requirements for energy-related products,	$\boxtimes$		
	(see legal reference).			
	Required information is; given in item P15 or added to this document,	$\boxtimes$	Ш	Ш
	available at (add URL):			
	https://www.lenovo.com/us/en/compliance/eco-declaration			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and	$\boxtimes$	Ш	
P5.2*	hexavalent chromium by weight of these together.  The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s)		$\overline{}$	_
F0.2	used (see legal reference).		Ш	Ш
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal			
0.0	Protocol (see legal reference).		Ш	ш
	Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	$\boxtimes$		

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 *	83B3	Logo	Lenovo	
Issue date *	2023/2/20		Lei IOVO.	

Produc	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	$\boxtimes$		
P7.2*	Plastic materials in covers/housing have no surface coating.	$\boxtimes$		
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.			
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			
	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	$\overline{\boxtimes}$		Ī
P7.9	Spare parts are available after end of production for: 5 years			$\overline{\Box}$
P7.10	Service is available after end of production for: 5 years			Ē
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
	Material type: <i>Mg-AL</i> Material type: <i>Plastic</i> Material type: <i>Fabric</i>			
P7.12	Insulation materials of external electrical cables are PVC free.	$\boxtimes$		
P7.13	Insulation materials of internal electrical cables are PVC free.		$\overline{\Box}$	一百
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%	<u> </u>	┪	百
	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			
DT 10	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: FR(40)	$\boxtimes$	Ш	
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: <i>Diphenyl phosphate</i> , CAS #: 838		П	
	85-7			
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g			
	according ISO 1043-4: <i>FR(40)</i>		ш	
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in			
	concentrations above 0,1%:			
	1. Chemical name: , CAS #: (See NOTE B4)			
	2. Chemical name: , CAS #:  Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: <i>FR(40)</i>	$\boxtimes$		
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been		∺	
1 1.10	assigned the following Risk phrases; and Hazard statements:	ш	ш	ш
		-\		
D7 20*	The source(s) for these classifications is/are found at (add URL(s)):  , (See note Bs	<u>')</u>	_	_
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):	$\bowtie$	Ш	Ш
	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 4.48%.			
	or			
	b) The weight of recycled material is <b>3.0</b> 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 <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

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 *	83B3	Logo	Lenovo
Issue date *	2023/2/20		Lei Iovo

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

	Material and subs	stance requirements	(continued)			
P7.21*	Biobased plastic m	naterial content is used	d in the product (See N	IOTE B7):		
	If YES: at least one	e of the two alternative	es below shall be answ	vered:		
	,			naterial content (calcula	ated as a percentage	
	of total plastic	by weight) is %	, 0.			
	or					
	, ,	the biobased plastic r				
P7.22*	0	• • • • • • • • • • • • • • • • • • • •	less than 0,1 mg/lamp		🖾 🗆	
Do		specify: Number of lar	mps: and maxin	num mercury content p	er lamp: mg	
<b>P8</b> P8.1*	Batteries	omposition: LI-ION Po	alumor.			
-			orymer			
P9		tion (See NOTE B8)	l			
P9.1			ls or energy consumpt		Defended for an army	_
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 *	
Peak (On-	may)	W	W	W	Full load	
		***	***	***	Tuniouu	
Catego		4.00\\	47414	4.05.14/	ENERGY STAR G	
Snort idle Enabled	State - WOL	4.86 W	4.74 W	4.85 W	ENERGY STAR Computers V8	
	State - WOL	0.54 W	0.54 W	0.55 W	(P <sub>idle</sub> )  ENERGY STAR Computers V8	
Enabled	State - WOL	0.54 VV	0.54 VV	0.55 VV	(Pidle)	
Lilabica					(* iale)	
Sleep (S3)	) - WOL Disabled	0.54 W	0.53 W	0.55 W	ENERGY STAR Computers V8	
Off (S5) -	WOL Disabled	0.46 W	0.47 W	0.49 W	ENERGY STAR Computers V8	
Catego	ry 2					
Short Idle	State - WOL	4.77 W	4.84 W	4.9 W	ENERGY STAR Computers V8	
Enabled					(P <sub>idle</sub> )	
Long Idle	State - WOL	0.72 W	<b>0.72</b> W	0.72 W	ENERGY STAR Computers V8	
Enabled					(P <sub>idle</sub> )	
Cloop (C2)	) WOL Disabled	0.72 W	<b>0.72</b> W	0.71 W	ENERGY STAR Computers V8	
	) - WOL Disabled WOL Disabled	0.42 W	0.42 W	0.43 W	ENERGY STAR Computers V8	
EPS No-lo		0.098 W	0.098 W	0.098 W	ENERGY STAR Computers Vo	
	supply / charger plugged in the	0.090 VV	0.090 VV	0.030 VV		
wall outlet but dis	sconnected from the product.)					
ETEC *	0 "	1: 15.88 kWh/year	1: 15.59 kWh/year	1: 15.98 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25)$	
Annuai En	ergy Consumption				+ P <sub>sleep</sub> x 0.35 + P <sub>long_idle</sub> x 0.10+	
ETEC *		2:16.27 kWh/year	2:16.46 kWh/year	2:16.64 kWh/year	$P_{short\_Idle} \times 0.30$ $E_{TEC} = (8760/1000) \times (P_{off} \times 0.25)$	
	ergy Consumption	Z. 70.27 KVVII/yeai	2.70.40 KWII/yeai	2.70.04 KVVII/yeai	$+ P_{sleep} \times 0.35 + P_{long\_ldle} \times 0.10 +$	ш
, umaan Em	orgy concumption				P <sub>short_Idle</sub> x 0.30)	
		Poff: Off Mode(S5) - W	OL Enabled; Psleep: Slee	ep Mode(S3) - WOL Enab		
External P	ower Supply Efficien	cy Level (Internationa	l Efficiency Marking Pr	otocol) * : VI		
	solution * : <b>4.1</b> mega			,		$\overline{}$
		ve mode: 10 minutes				$\overline{}$
P9.2*			on is provided with the	product		<del>                                     </del>
			on is provided with the	product.		
P9.3	Energy efficiency of	class (monitors only):				$\bowtie$

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 <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

NOTE B9 A Guidance document on Acoustic Noise is available;

see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

P10	Emissions								
	Noise emission	Noise emission – Declared according to ISO 9296 (See NOTE B9)							
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)						
	Idle	* Idle	* 2.5						
	Operation	* CPU	* 3.0						
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p  m Am}$							
ĺ	Other mode	Declared A-weighted sound pressure level (dB) $L_{p  m Am}$	30.4 (operator position desktop – operating)						
	Measured acco	ording to: X ISO 7779 ECMA-74							
		Other (only if not covered	by ECMA-74)						

Model number *	83B3	Logo	Lanovo
Issue date *	2023/2/20		Lei IOVO.

Product	environmental attrib	outes - Market requiremen	ts (continued)					
	Requirement met		(					
Item	-				Yes	No	n.a.	
	Electromagnetic emis	ssions						
P10.4		ts the requirement for low frequ	ency electromagnetic	fields of the following	$\boxtimes$			
	voluntary program(s):							
P12	Ergonomics for comp	<u> </u>					_	
P12.1*		ergonomic requirements of ISC		· · · · · · · · · · · · · · · · · · ·	$\boxtimes$			
P12.2*	The physical input devi	ce meets the requirements of I	SO 9995 and ISO 924	1-410.	$\boxtimes$			
P13	Packaging and documentation							
P13.1*	Product packaging material type(s): Corrugated Fibrerboard weight (kg): 0.5649							
	Product packaging material type(s): <i>Cardboard</i> weight (kg): <i>0.0209</i>							
	Product packaging material type(s): <i>LDPE Cushion</i> weight (kg): 0.0992  Product packaging material type(s): <i>LDPE Bag</i> weight (kg): 0.0108							
P13.2*	Product plastic primary packaging is free from PVC.							
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum						+	
10.5	post-consumer recover		specify the contained	percentage of millimum			Ш	
P13.4*	Specify media for user and product documentation (tick box):						П	
	⊠Electronic, ⊠Pape		,					
P13.5	(Please only complete	this item if paper documentatio	n used)					
		mentation on paper media is cl	nlorine-free:		$\boxtimes$			
	If Yes, please specify:							
	Totally chlorine-free				$\boxtimes$			
	Elemental chlorine-free	•			$\Box$			
	Processed chlorine-fre	е			$\Box$			
P14	Voluntary programs							
P14.1	<u> </u>	requirements of the following v	oluntary program(s):					
		·						
	ENERGY STAR®	Criteria version: 8.0	Date: 2023/2/06	Product category: 1,2				
	Eco-label:	Criteria version:	Date:	Product category:				
P15	Eco-label:	Criteria version:	Date:	Product category:				
P15	Additional information	of specific configuration mag	v vany description o	f the tested product confic	vuration			
F 9		es no representations, guarar						
		ation contained in this docum						
		ıpplier's knowledge available						
	to update such inform	nation. The information provi	ded here is approxin	nate and provided for info	rmationa	al .		
		Lenovo Account Representa						
P9		ified Notebooks & Tablet Cor						
	http://www.energysta	r.gov/index.cfm?fuseaction=	find_a_product.shov	vProductGroup&pgw_cod	e=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 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:**

Notebook/Tablet Computer < 6 W Idle

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

Commercial name	IdeaPad Duet 5 12IRU8/XiaoXin Duet IRU8	Logo
Model Number	83B3	
Product Type	Notebook	Lenovo
Issue Date	2023-2-20	
Additional information		

year of manufacture:		2023
Network Standby Classification	Choose	
Off Mode Power (Watts)	0.4 Watts	
Standby Mode	Watts minutes Default Delay Time	⊠Mode Not Applicable
Description of how to enable Network Standby Mode	Default	
Description of how to manually enter Network Standby Mode	Default	
Default Delay time to Network Standby Mode	10.0 minutes	
Reactivation Function from Network Standby Mode	N/A	

	Present in Product Activated at Shipment Active in Network Standby Mode Location of Network Port							
	Activated at Shipment Active in Network Standby Mode Location of		_					
	Active in Network Standby Mode Location of							
	Location of		_					
		Choose	Choose	Choose	Choose	Choose	Choose	Choose
	Network Port Maximum	GB/s	GB/s	GB/s	GB/s	GB/s	GB/s	GB/s
· ·	Performance							
	Network Protocol	107.44	0.70.14/ //			107.77	107.77	100
	Network Standby	Watts	0.73 Watts	14/2442	14/2442	Watts	Watts	Wat
	Mode Power			Watts	Watts			
	Network Standby Power – All Connections				0.73Watts			
i) - [	Test parameters for m							
	ambient temperature, test voltage in V and frequency in Hz,			0.0	22.7 degrees Celsius			
			z,		2.7 degrees Cel 30 V / 50 Hz	sius		
		I frequency in H		23		sius		
	test voltage in V and	I frequency in H tion of the elect umentation on t	ricity supply sys	stem, 0.	08%	sius tal Harmonic Dis	stortion <2 %	
5)	test voltage in V and total harmonic distor	I frequency in H tion of the elect umentation on t for electrical te	ricity supply sys he instrumentat sting	stem, 0.	08%		stortion <2 %	
5)	test voltage in V and total harmonic distor information and doc up and circuits used	I frequency in H tion of the elect umentation on t for electrical te	ricity supply sys he instrumentat sting	23 stem, 0.6 ion, set- 23	08%	tal Harmonic Dis	l No Loa	-
() ()	test voltage in V and total harmonic distor information and doci up and circuits used External power supply	I frequency in H tion of the elect umentation on t for electrical te v efficiency (if ap	ricity supply sys he instrumentat sting oplicable)*:  Output	stem, 0.0 ion, set-	80 V / 50 Hz 08% 80V, 50GHz, Tot Average Active	tal Harmonic Dis	l No Loa	r
·)	test voltage in V and total harmonic distor information and docup and circuits used External power supply	I frequency in H tion of the elect umentation on t for electrical te v efficiency (if ap  Output Voltage	ricity supply sys he instrumentat sting oplicable)*:  Output Current	output Power	80 V / 50 Hz 08% 80V, 50GHz, Tot Average Active Efficiency	tal Harmonic Dis	No Loa	r W
5)	test voltage in V and total harmonic distor information and docup and circuits used External power supply Model  ADLX65UCGC2A	I frequency in H tion of the elect umentation on t for electrical te v efficiency (if ap  Output Voltage 5 V	he instrumentat sting opticable)*:  Output Current 3 A	23 stem, 0.6 ion, set- 23 Output Power 15 W	80 V / 50 Hz 08% 80V, 50GHz, Tot Average Active Efficiency 84.47%	tal Harmonic Dis	No Loa Power 0.035 I	w W
5)	test voltage in V and total harmonic distor information and docup and circuits used External power supply Model  ADLX65UCGC2A ADLX65UCGC2A	I frequency in H tion of the elect umentation on t for electrical te v efficiency (if ap Output Voltage 5 V 9 V	he instrumentat sting oplicable)*:  Output Current 3 A 3 A 3 A	23 stem, 0 ion, set- 23 Output Power 15 W 15 W	80 V / 50 Hz 08% 80V, 50GHz, Tot Average Active Efficiency 84.47% 87.51%	tal Harmonic Dis	No Loa Power	w W W