



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 * e-mail address	Lenovo Global Environmental Affairs Alvin L Carter alcarter@lenovo.com	Lenovo			
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 (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 *	Notebook					
Commercial name *	ThinkPad L15 Gen 2 AMD					
Model number *	20X7,20X8					
Issue date *	2021/03/01					
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

Issue date * 2021/03/01 Product environmental attributes - Legal requirements Item P1 Hazardous substances and preparations P1.1* Products do comply with current European RoHS Directive. (See legal reference and NOTE B1) P1.2* Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. P1.3* Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum	ment i	
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P1 Hazardous substances and preparations P1.1* Products do comply with current European RoHS Directive. (See legal reference and NOTE B1) P1.2* Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. P1.3* Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-	No	n.a.
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hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-		
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concentration values.		
P1.4* Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated		
terphenyl (PCT) in preparations (see legal reference).		
P1.5* Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).		
P1.6* Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week	\Box	$\overline{\Box}$
(see legal reference).	ш	ш
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):		
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 symbol. Information on proper disposal is provided in user manual. (See legal reference)		
P2.2* Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal		\Box
reference)		
P2.3* Batteries and accumulators are readily removable. (See legal reference)		
P3 Conformity verification & Eco design (ErP)		
P3.1* The product is CE-marked to show conformance with applicable legal requirements (see legal reference).		
The Declaration of Conformity can be requested at (add link or e-mail address): https://www.lenovo.com/us/en/compliance/eu-doc		
P3.2* The product complies with the Eco design requirements for energy-related products, (see legal reference).		
Required information is; given in item P15 or added to this document,		
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		
hexavalent chromium by weight of these together.		
P5.2* The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) sused (see legal reference).		Ш
P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol		
(see legal reference).		
(see legal reference). Comment: Legal reference has no maximum concentration values.		

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.

Issue date	Model number *		20X7,20X8 Logo	Long	21/0	
- Environmental conscious design Item Termandaroty to fill in Additional information regarding each item may be found under P14.	Issue dat	te *	2021/03/01	Len		ты
Item "=mandatory to fill in Additional information regarding each item may be found under P14. Yes No n.a. Disassembly, recycling Disassembly, recycling Disassembly, recycling P7.1" Parts that have to be treated separately are easily separable	Product			Paguiro	nant r	not
P7.2* Plastic materials in covers/housing have no surface coating. P7.3* Plastic materials in covers/housing have no surface coating. P7.4* Plastic materials in covers/housing have no surface coating. P7.5* Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. P7.5* Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. P7.6* Labels are easily separable. (This requirement does not apply to safety/regulatory labels). P7.6* Labels are easily separable. (This requirement does not apply to safety/regulatory labels). P7.7* Upgrading can be done e.g. with processor, memory, cards or drives P7.8* Upgrading can be done e.g. with processor, memory, cards or drives P7.9* Spare parts are available after end of production for: 5 years P7.10* Service is available after end of production for: 5 years Material and substance requirements P7.11* Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: PC+ABS Material type: PC+ABS Material type: Material type: PC+ABS Material type: Material type: PC+ABS Material type: PC+ABS Material type: PC+ABS Material type: PC-ABS Material type: PC	Item		tory to fill in. Additional information regarding each item may be found under P14			
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 > 25 g have material codes according to ISO 11469 referring ISO 1043-4. P1.4* Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. P1.5* 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). P7.6* Upgrading can be done e.g. with processor, memory, cards or drives P7.7* Upgrading can be done e.g. with processor, memory, cards or drives P7.8* Upgrading can be done using commonly available tools P7.9 Spare parts are available after end of production for: 5 years P7.10 Service is available after end of production for: 5 years Material and substance requirements P7.11* Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: PC-4BS Material type: PC-5BS Material		Design		103	110	n.a.
P7.2* Plastic materials in covers/housing have no surface coating. P7.3* Plastic parts > 100 g consist of one material or of easily spearable materials. P7.4* Plastic parts > 26 g have material codes according to ISO 11469 referring ISO 1043-4. 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). P7.6* Labels are easily separable. (This requirement does not apply to safety/regulatory labels). P7.8* Upgrading can be done e.g., with processor, memory, cards or drives P7.8* Upgrading can be done using commonly available tools P7.9* Spare parts are available after end of production for: 5 years P7.10* Service is available after end of production for: 5 years P7.11* Product cover/housing material type (e.g. plastics, metal, aluminum): Material and substance requirements P7.11* Insulation materials of internal 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, and polyvinyl chloride or 0.3% evelpth (2000 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 g are low halogen as defined in IEC 6149-2-21. Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): P7.16* Plame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0.1%: Alt. 1: Chemical specifications of flame retardants in printed circuit boards (without components): P7.18* Alt. 1: Elime retarded plastic parts > 25 g contain the following flame retardant substances/pre	P7.1*			\square	П	
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P7.7° Upgrading can be done e.g. with processor, memory, cards or drives P7.8° Upgrading can be done e.g. with processor, memory, cards or drives P7.9° Spare parts are available after end of production for: 5 years P7.10 Service is available after end of production for: 5 years P7.11° Product cover/housing material type (e.g. plastics, metal, aluminum): Material and substance requirements P7.11° Material type: PC+ABS Material type: Material type: PC+ABS Material type: Insulation materials of external electrical cables are PVC free. 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 polyviny chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine attributable to brominated flame retardants, 25% post-consumer recycled content. P7.15 Printed circuit boards, PCBs (without components) are low halogen: all ∑ PCBs > 25 g are low 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) 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 Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: Note the concentrations above 0,1%: 1. Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: (AS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) □ In plastic parts > 25 g, flame retardant substances/preparations above 0,1%: □ TBBPA (additive). □ TBBPA (reactive) (See NOTE B4) 2. Chemical name: (AS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 10	P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).			
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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 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) 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 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 in concentrations above 0,1%: 1. Chemical name: , CAS #: 3. Chemical name: , CAS #: 3. Chemical name: , CAS #: 4. Lt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) 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): 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 2.01%.						\forall
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 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) 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 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 in concentrations above 0,1%: 1. Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: 4lt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) 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): 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 2.01%.					H	\dashv
P7.15 Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low 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:		weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing			
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 Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: □ Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: □ Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) □ Chemical name: , CAS #: □ Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) □ 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)): □ P7.20* Postconsumer recycled plastic material content is used in the product (See Note B6): □ 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 2.01%. or	P7.15	Printed of	circuit boards, PCBs (without components) are low halogen: all 🏻 PCBs > 25 g 🔲 are low halogen			
TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: DOPO, CAS #: 35948-25-5 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 in concentrations above 0,1%: 1. Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) 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): 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 2.01%. or	P7.16	Marking:	FR(40)			
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: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) 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): 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 2.01%. or	P7.17					
concentrations above 0,1%: 1. Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) 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): 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 2.01%. or						
1. Chemical name: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40) 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): 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 2.01%. or	P7.18				П	
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)): Postconsumer recycled plastic material content is used in the product (See Note B6): 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 2.01%. or		2. Chem	ical name: , CAS #: "	_	_	
assigned the following Risk phrases; and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)): Postconsumer recycled plastic material content is used in the product (See Note B6): 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 2.01%. or		Alt. 2: Cl	nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40)	\boxtimes		
P7.20* Postconsumer recycled plastic material content is used in the product (See Note B6): 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 2.01%. or	P7.19					
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 2.01%. or						
 a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 2.01%. or 	P7.20*	Postcons	sumer recycled plastic material content is used in the product (See Note B6):	\boxtimes		
		a) Of t	otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as			
			weight of recycled material is 15.6 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 *	20X7,20X8	Logo	Lenovo		
Issue date *	2021/03/01		Lein		TH
Product environmental attributes - Market requirements (continued) Requirement					
Item			Yes	No	n.a.

D7.04*		ostance requirements		OTE D7/						
P7.21*	7.21* Biobased plastic material content is used in the product (See NOTE B7):									
		f YES; at least one of the two alternatives below shall be answered;								
			rts' weight > 25 g, the biobased plastic material content (calculated as a percentage of ight) is %.							
	or	by weight) is %.								
		of the biobased plastic	material is g.							
P7.22*		ight sources are free from mercury, i.e. less than 0,1 mg/lamp.								
		d specify: Number of la	mps: and maximi	um mercury content pe						
P8	Batteries									
P8.1*		composition: Li-ion				<u> </u>				
P9		ption (See NOTE B8)	I							
P9.1 Energy mod		Power level at	els or energy consumption Power level at	Power level at	Reference/Standard for energy					
Lifergy filot	ue	100 V AC	115 V AC	230 V AC	modes and test method *					
Peak (On-r	nax)	65 W	65 W	65 W	Full load					
Category	<u>/ -2-</u>									
Short Idle	State - WOL	5.92 W	5.89 W	5.87 W	Use for ENERGY STAR V7					
Enabled					registration (Pidle)					
Long Idle	State / Sleep (S3)	- 2.13 W	2.13 W	2.18 W	Use for ENERGY STAR V7					
WOL Enab		2.73 W	2.73 VV	2.70 VV	registration (P _{idle} , P _{sleep})					
					, idio cicop					
Off (S5) - V	VOL Enabled	0.40 W	0.40 W	0.44 W	Use for ENERGY STAR V7					
					registration, ErP (P _{off})					
EPS No-loa	ad	0.095 W	0.096 W	0.117 W						
(External power supply / charger plugged in the wall outlet but disconnected from the product.)		9								
TEC *		kWh/week	kWh/week	kWh/week						
	ergy Consumption									
PTEC *		W	W	W		\boxtimes				
	ergy Consumption	0.4.0.4.1.3.4/1-/	0.4.77 1.30//- /	04.00 1-\0/1-6	F = (0700/4000) (D 0.05					
ETEC *	ergy Consumption	24.84 kWh/year	24.77 kWh/year	24.99 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25 + P_{sleep} \times 0.35 + P_{long ldle} \times 0.10 +$					
Allildai Elic	igy Consumption				P _{short Idle} x 0.30)					
		Poff: Off Mode(\$5) - W	OL Enabled; P _{sleep} : Sleep	Mode(S3) - WOL Enable	ed; P _{idle} : Idle State - WOL Enabled					
	,	, ,	al Efficiency Marking Pro	otocol) * : VI						
Display res	olution * : 2.074 m	negapixels			1920*1080					
Default time	e to enter energy s	save mode: 10 minutes								
P9.2*	Information abou	t the energy save funct	ion is provided with the	product.						
P9.3	Energy efficiency	class (monitors only):	•							
P10	Emissions									
	Noise emission	 Declared according t 	o ISO 9296 (See NOTE	B9)						
P10.1		Mode description			it A-weighted sound power level, $L_{WA,c}$	(B)				
	Idle	* HDD idle		* 2.7						
	Operation	* Operating (HDD)		* NA						
	Otto	* Operating (CPU)	ad proceure level (dP)	* 3.7						
	Other mode	Declared A-weighted Sour	nd pressure level (dB) $_{L_{p\mathrm{Am}}}$	16 (operator position	<u> </u>					
	Other mode		nd pressure level (dB) $_{L_{p\mathrm{Am}}}$	L_{pAm} NA (operator position desktop – operatingHDD)						
	N4	li	7 5044 74	১1 (operator position	n desktop – operatingCPU)					
	Measured accord	· <u> </u>		E0144 74)						
		Other	(only if not covered by	ECMA-/4)						

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;

 $\textbf{see} \hspace{0.1cm} \underline{\textbf{http://www.ecma-international.org/publications/standards/Ecma-370.htm}$

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

Model number * 20	0X7,20X8 Logo	Long	V/0	
Issue date * 20	021/03/01	Leno	VO.	
Product environme	ental attributes - Market requirements (continued)	Require	ment	met
Item		Yes	No	n.a.
Electroma	gnetic emissions			
	display meets the requirement for low frequency electromagnetic fields of the following voluntary : MPR-II(3 pin AC adapter only)	<i>y</i>		
	cs for computing products			
P12.1* The display	y meets the ergonomic requirements of ISO 9241-307 for visual display technologies.			
' '	al input device meets the requirements of ISO 9995 and ISO 9241-410.	X		
	and documentation			
Product pad Product pad	ckaging material type(s): Carton weight (kg): 0.376 ckaging material type(s): Paper pad weight (kg): 0.037 ckaging material type(s): LDPE cushion weight (kg): 0.11			
P13.2* Product pla	astic primary packaging is free from PVC.			
P13.3* For produc consumer r	at primary corrugated fiberboard packaging, specify the contained percentage of minimum percovered fiber content: 70%	ost-		
	edia for user and product documentation (tick box): nic, ☑Paper, ☑Other			
P13.5 (Please onl	ly complete this item if paper documentation used) roduct documentation on paper media is chlorine-free:			
	orine-free chlorine-free chlorine-free			
P14 Voluntary				
ENERGY S Eco-label: 1 Eco-label: 1	EPEATCriteria version:IEEE 1680.1-2018Date: 2020/12/15Product category: NotTCOCriteria version:NoteBook 8.0Date: 2021/01/12Product category: Not	lotebook		
	information (See NOTE B10)			
P9 Energy con	nsumption of specific configuration may vary; description of the tested product configur	ration:		
information knowledge provided he information		ased on suppation. The inf	lier's ormati	on
	y Star Qualified Notebooks & Tablet Computers for the latest information: energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_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

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	ThinkPad L15 Gen2 AMD	Logo	
Model Number	20X7,20X8		Lonovo
Issue Date	2021/03/01		Lenovo.
Additional information			

d)	year of manufacture:				2021
*)	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 Categor enable	y and capability adjust	ments applied when a	all discrete graphics of	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]	28			
ents ting	Additional internal storage	Yes (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)				
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)				
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled	20.60			
g)	Idle state power demand (Watts);				6.3
1)	Sleep mode power demand (Watts);				1.53
)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		1.56
)	Off mode power demand (Watts);				0.47
()	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.51
)	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 °	% of rated output pow	er (if applicable):	
	10% 20% 50%	100% Avera	age		
n)	external power supply efficiency (if appli	cable)*:			
	Average active efficiency: 45W: 87,98%	%,88,63%,88,83%; 65V	V: 89,41%,88,62%,88	,96%	
o)	*internal note: show values for all available external p Minimum number of loading cycles that t		tand (annlies only to r	notebook computers).	
-,	minimum ridinger or loading cycles that t	and batteries our withs	cana (applied only to i	iotosson compaters).	500 cycles
p-1)	Measurement methodology used to dete	rmine information mer <i>NA</i>	ntioned in points (I) – i	nternal PSU efficiency:	:
0-2)	Measurement methodology used to dete	rmine information mer	ntioned in points (m) –	external PSII efficienc	cv.

(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:	maximum, idle, sleep, off mode			
	EN 62623:2013 measurement methodology					
(q)	Sequence of steps for	or achieving a stable condition with respect to power	demand::			
		EN 62623:2013 measurement methodo	ology			
(r)	Description of how s	eep and/or off mode was selected or programmed:				
	В	y selecting sleep and/or off mode thru Windows	operating system			
(s)	Sequence of events off mode:	required to reach the mode where the equipment au	tomatically changes to sleep and/or			
	on mode.	Automatically changes to sleep after 30 i	minutes			
(t)		te condition before the computer automatically re		10		
(u)	Length of time after	r a period of user inactivity in which the compute ver power demand requirement than sleep mode (in	r automatically reaches a power	NA		
(v)		re the display sleep mode is set to activate after		10		
(w)		nergy-saving potential of power management function				
	User information	n described in User Guide and Power Manager u programs	nder ThinkVantage menu in all			
(x)	user information on h	now to enable the power management functionality:				
	User information	n described in User Guide and Power Manager u programs	nder ThinkVantage menu in all			
(z)		neasurements: — test voltage in V and frequency in tem, — information and documentation on the instru				
	ioi cicotilodi testing.	230V/50HZ; Total Harmonic Distortion	1 <2 %			
Addition	Notebook Battery	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/built-in Battery						
External/detachable Battery						
Bios Bacl	kup Battery					
Other:	Other:					
Additiona	l information		1	<u>'</u>		
\						

т)
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 batteria/le 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.

Il-batterija/batteriji f'dan il-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 uşor înlocuită (înlocuite) de utilizatorii înşişi. Batériu(-ie) v tomto výrobku nemôže vymieñať používateľ. Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.

Tämän tuottéen 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.