



Annex B2 - Product environmental attributes Servers/Data Storage Products

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	Table 1 and
Contact information *	Lenovo Global Environmental Affairs	Lenovo
e-mail address	Alvin L Carter	LEI IOVO.
	alcarter@lenovo.com	
Internet site *	https://www.lenovo.com/us/en/about/sustainability	
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 *	Server			
Commercial name *	ThinkSystem DW612 Enclosure			
Model number *	7D1L			
Issue date *	Feb 18, 2021			
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 nu	el number * 7D1L Logo		Long	21/6	Ų.		
Issue date	tte * Feb 18, 2021			Lend	JVC	,	
Product	environ	mental attributes -	Legal requirements		Require	ment	met
Item					Yes	No	N/A
P1		us substances and p					
P1.1*	Products	do comply with currer	nt European RoHS Directive. (See legal reference and NOT	E B1)	\boxtimes		
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.						
P1.3*	Droducto	it: Legai reference nas	Depleting Substances: Chlorofluorocarbons (CFC),			$\overline{}$	
P1.3			FC), hydrochlorofluorcarbons (HCFC), Halons, carbontetract	hloride 1 1 1_	\boxtimes	Ш	
	trichloroe		e (see legal reference). Comment: Legal reference has no r				
P1.4*			han; 0,005% polychlorinated biphenyl (PCB), 0,005% polycl	nlorinated	X		
			s (see legal reference).				
P1.5*			han 0,1% short chain chloroparaffins (SCCP) with 10-13 can per mass of chlorine in the SCCP (see legal reference).	bon atoms in th	ie 🔀		
P1.6*			skin contact do not release nickel in concentrations above	0,5 μg/cm²/wee	k 🔀		
		al reference).					
D4 7*	Commer	nt: Max limit in legal re	ference when tested according to EN1811:2011-5.				
P1.7*			about substances in articles is available at (add URL or mail Lenovo-REACH-SVHC-Disclosure	contact):		Ш	Ш
P2	Batteries						
P2.1*			y or an accumulator, the battery/accumulator is labeled with disposal is provided in user manual. (See legal reference)	the disposal			
P2.2*	Batteries reference		ot contain more than 0,0005% of mercury or 0,002% of cadr	mium. (See lega	al 🔀		
P2.3*	Batteries	and accumulators are	e readily removable. (See legal reference)		\boxtimes		
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)						\boxtimes
P2.5*			tebook computer cannot be "accessed and replaced by a no at and legible on the external packaging (see legal reference				\boxtimes
P3		nity verification & Ec					
P3.1*			how conformance with applicable legal requirements (see le can be requested at: https://www.lenovo.com/us/en/complia				
P3.2*	The prod		Eco design requirements for energy-related products,				
		l information is;	given in item P15 or added to this document,				
	·		available at: https://www.lenovo.com/us/en/compliance/e	eco-declaration			_
P5	Product	packaging	,				
P5.1*	Packagir		mponents do not contain more than 0,01% lead, mercui t of these together.	ry, cadmium ar	nd 🔀		
P5.2*	The pack		arked with abbreviations and numbers indicating the nature	of the material(s) 🔀		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).						
			no maximum concentration values.				
P6		nt information					
P6.1*			ent 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 nu	ımber *	7D1L	Logo	Long	21/0	
Issue dat	te *	Feb 18, 2021		Len	JVO	=
Product environmental attributes - Market requirements (See General NOTE GN below)						
		onmental conscious design		Require		
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	N/A
P7 P7.1*		Disassembly, recycling at have to be treated separately are easily separable				
P7.2*		naterials in covers/housing have no surface coating.				井
P7.3*		arts > 100 g consist of one material or of easily separable materials.			<u> </u>	
P7.4*	1 0				 	
P7.5		, ,	ivaliable tools.			4
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).				Ш
P7.7*	Product	Iffetime ng can be done e.g. with processor, memory, cards or drives				
P7.8*		<u> </u>			<u> </u>	
P7.9		ng can be done using commonly available tools			<u> Ш</u>	井
		arts are available after end of production for: years				<u> </u>
P7.10		s available after end of production for: years				Щ
P7.11*		and substance requirements cover/housing material type (e.g. plastics, metal, aluminum):				
		, , , , ,	al type: PC+AB	S		
P7.12		n materials of external electrical cables are PVC free.			X	\Box
P7.13	Insulatio	n materials of internal electrical cables are PVC free.		Ħ		Ħ
P7.14	External	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) br	romine and 0,1	%		Ħ
		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	n parts containir	ng		
P7.15	more than 25% post-consumer recycled content. Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen					
		ed in IEC 61249-2-21. (See ⁵ NOTE B2)	are less rialege	,,, <u> </u>		
P7.16	Flame re	starded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:				
D7.47	Marking:					
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without co additive) , TBBPA (reactive) (See NOTE B3), Other: chemical name:	mponents): , CAS #:			
		, , , , , , , , , , , , , , , , , , , ,	•		ш	
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	ents) > 25 g			
D7.40		<u> </u>				
P7.18		ame retarded plastic parts > 25 g contain the following flame retardant substance: ations above 0.1%:	s/preparations	ın 🖂		
		ical name: , CAS #: (See NOTE B4)			ш	
		ical name: , CAS #: "				
		ical name: , CAS #: "				
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043				
P7.19	•	parts > 25 g, flame retardant substances/preparations above 0,1% are used which	have been			
	_	If the following Risk phrases; and Hazard statements:				
P7.20*		rce(s) for these classifications is/are found at (add URL(s)): , (S) sumer recycled plastic material content is used in the product (See Note B6):	ee note B5)			
F 1.20	FUSICOIN	sumer recycled plastic material content is used in the product (see Note Do).			igtriangledown	Ш
		at least one of the two alternatives below shall be answered;				
		otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content ercentage of total plastic by weight) is %.	t (calculated as			
	or a pe	ercentage of total plastic by weight) is %.				
		e weight of recycled material is g.				

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm.

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	ber * 7D1L Logo		Lenovo				
Issue date *	Feb 18, 2021		Lein	540			
Product environr	nental attributes - Market requirements (continued)		Requir	emen	t met		
Item			Yes	No	N/A		

		stance requirements					
P7.21*	•	material content is used		•			
		ne of the two alternative					
		tic parts' weight > 25 g, by weight) is %.	the biobased plastic ma	aterial content (calcula	ted as a percentage of		
	or	by Worghity 10 70.					
	b) The weight	of the biobased plastic r	naterial is g.				
P7.22*	U	free from mercury, i.e.					
P7.23*		d specify: Number of lan		ım mercury content pe			
	If product includes an integral display, the total mercury content in the integrated display: mg						
P8	Batteries		D1 11				
P8.1*		composition: Lithium Ma	anganese Dioxide				
P9		otion (See NOTE B8)					
P9.1 Energy mod		ne following power level Power level at	Power level at	Power level at	Reference/Standard fo	r operav	
Energy mo	ue	100 V AC	115 V AC	230 V AC	modes and test method		\bowtie
Peak (On-I	max)	W W	W	W	Full load		
<u> </u>							
Categor		T	1				
EPS No-loa		W	W	W			
	ower supply / lgged in the wall						
	isconnected from						
the product							
PTEC *		W	W	W			\boxtimes
Typical Energy Consumption							
ETEC *		kWh/year	kWh/year	kWh/year			\boxtimes
	ergy Consumption	<u> </u>	Efficiency Marking Pro	tocol) * ·	+		\square
Display res		negapixels	Ellicicity Walking 1 10		+		\square
. ,	e to enter energy s	• .	tes		+		
P9.2*		the energy save function	on is provided with the	oroduct.		$\neg \neg$	
P9.3		class (monitors only):					
P10	Emissions	,					
1 10		 Declared according to 	ISO 9296 (See NOTE	B9)			
P10.1		Mode description		Statistical upper limi	it A-weighted sound power	level, L _{WA}	_{,c} (B)
	Idle	*		*			\boxtimes
	Operation	*		*			\boxtimes
	Other mode	Declared A-weighted soun	d pressure level (dB) $L_{p{\sf Am}}$	(operator po	sition desktop – idle)		
	Other mode	Declared A-weighted sound	d pressure level (dB) $L_{p{\sf Am}}$	(operator po	sition desktop – operating)		
•	Measured accord	ing to: ISO 7779	ECMA-74	•			
		Other	(only if not covered by	ECMA-74)			
	Electromagnetic		, ,				
P10.4		meets the requirement	for low frequency elect	tromagnetic fields of th	ne following voluntary		
	program(s):						

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

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

Model number *		7D1L					Logo	Long	1/0		
Issue date * Feb 18, 2021					Lenc	VO					
Product	environr	nental attributes	s - Market requirem	ents (cont	inued)			Requirement met			
Item								Yes	No	N/A	
P12		mics for computin									
P12.1*	The disp	play meets the ergo	nomic requirements of	ISO 9241-30	7 for visual	display technolog	gies.				
P12.2*	The phy	sical input device n	neets the requirements	of ISO 9995	and ISO 92	41-410.				\boxtimes	
P13		ing and document									
P13.1*	Product	packaging material	type(s): Corrugate type(s): wood type(s): PE weight (k	weight (kg): weight (kg): (g): 3.0							
P13.2*	Product	plastic primary pac	kaging is free from PV	C.				\boxtimes			
P13.3*		duct primary corruger recovered fiber of	gated fiberboard pack content: 41 %	aging, specif	y the contai	ined percentage	of minimum	post-			
P13.4*	Specify		product documentation Other	n (tick box):							
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify:										
	Totally chlorine-free										
	Elemental chlorine-free										
	Processed chlorine-free										
P14	Volunta	ry programs									
P14.1	The prod	duct meets the requ	uirements of the followi	ng voluntary	program(s):						
	Eco-labe	el:	Criteria version: Criteria version: Criteria version:	İ	Date: Date: Date:	Product o Product o Product o	category:				
P15		nal information (S									
P9	NOTE: S the info supplied informa	Supplier makes no rmation contained r's knowledge ava tion. The informat	omputer products; do representations, gual in this document. A dilable at the time of co tion provided here is for more information.	arantees, as Il informatio completion, a	surances of n provided and supplie	r warranties wh by supplier in tl r shall have no (ether expres his document obligation to	nt is provided update such	based	on	
P9	See Ene	ergy Star Qualified	l Enterprise Servers to ov/products/data cel								

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, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), 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 2006/66/EC (Battery and accumulators Directive), as amended.* * 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 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE 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
Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power demand and average active efficiency of external power supplies	P3.1, P3.2, P9.1
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	P2.4, P2.5, P3.1, P3.2, P7.23, P9.1
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
Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register.	
Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	

Lenovo ErP Lot9 Information Sheet - Servers & Storage Products-

As required by COMMISSION REGULATION (EU) 2019/424 of 15 March 2019 laying down ecodesign requirements for servers and data storage products pursuant to Directive 2009/125/EC of the European Parliament and of the Council and amending Commission Regulation (EU) No 617/2013. (ErP Lot9)

Products scope of this sheet: Servers & storage products

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

SERVERS

|--|

Jonioral Illionnianon			
Commercial name (3.1 (b)	ThinkSystem DW612 Neptune DWC Enclosure	Logo	
Contact Address (3.1 (b))	7001 Development Dr. Building 7, Morrisville, NC 27560, United]	
	States		Lanava
Model Number (3.1 (c))	7D1L]	Lenovo
Issue Date	Feb 18, 2021]	
Additional information			

Product 6	environmental attributes (EU) 2019/424 – Annex II points 3.1 and 3.3
1.a	Is the product consider to be in scope of ErP Lot 9 in scope of out of scope, product is out of scope as: Blade chassis
1.b (3.1 (a))	Server type Rack Server High Performance Computing (HPC) Tower Server Multi Node Server Blade Server Data Storage product (Please go to "DATA STORAGE PRODUCTS" section
1.c (3.1 (d))	Year of manufacture:
1.d (3.1 (p))	Product model part of a server product family? No Yes List of all model configurations that are represented by the model:
1.e (3.1 (n))	Information on the secure data deletion functionality (a) instructions on how to use the functionality: (b) techniques used: (c) supported secure data deletion standard (if any): OR - Reference to other information:
1.f (3.1 (o))	Blade servers? No Yes list of recommended combinations with compatible chassis:
Recycling	g Data
2.a (3.3 (a))	Indicative weight range at component level, of the following critical raw materials: (a) Cobalt in the batteries less than 5 g less than 5 g less than 5 g between 5 g and 25 g above 25 g above 25 g above 25 g
2.b (3.3 (b))	Instructions on the disassembly operations (a) the type of operation; (b) the type and number of fastening technique(s) to be unlocked; (c) the tool(s) required.
	OR - Reference to other information:
2.c	Firmware Reference to information on last available firmware:
Additional	l information