



### 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		
Contact information *	Lenovo Global Environmental Affairs		Lenovo
e-mail address	Alvin L Carter		LCIIOVO
	alcarter@lenovo.com		
Internet site *	https://www.lenovo.com/us/en/sustainability-resources/		
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 *	Type of product * SERVER					
Commercial name *	Lenovo ThinkSystem SR650 V2 / ThinkAgile HX5530/5531/7530/7531					
Model number *	7Z72,7Z73,7Z82,7Z84,7D0W,7D0Y					
Issue date *	2021-06-21, revised 2022-08-03					
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.

P1.1*   Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)   P1.2*   Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)   P1.2*   Products do not contain Asbestos (see legal reference).   D1.3*   P1.3*	Model number *		7Z72,7Z73,7Z82,7Z84,7D0W,7D0Y	Logo	Lone		
Item	Issue dat	e *	2021-06-21, revised 2022-08-03		Lend	JVC	<b>)</b> <sub>H.</sub>
Item	<b>Product</b>	environ	mental attributes - Legal requirements		Require	ment	met
P1.1º Products do comply with ournent European RoHS Directive. (See legal reference and NOTE B1)  P1.2º Products do not contain Asbestos (see legal reference).  Comment. Legal reference has no maximum concentration value.  P1.3º Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrochromfluorocarbons (HBFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.  P1.4º Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).  P1.5º 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).  P1.5º 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).  P1.6º Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm²/week (see legal reference).  P1.7º REACH Anticle 33 information about substances in articles is available at (add URL or mail contact): https://www.lenov.com/us/en/Lenovo-REACH-SVHC-Disclosure  P2.1º Batteries  P2.1º Batteries  Batteries  Batteries  P2.2º Batteries  Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)  P2.3º Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of particles of 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)  P2.4º Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)  P2.4º Documentation includes the number of cycles the (secondary) battery can withstand. (See legal r	Item		• •		Yes	No	N/A
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P1.3* Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrochromofluorocarbons (MBFC), hydrochromoflu	P1.1*	Products	do comply with current European RoHS Directive. (See legal reference and NOTE	B1)	$\boxtimes$		
P1.3* Products do not contain Ozone Depleting Substances: Chloroffluorocarbons (CFC), hydrochromfluorocarbons (HCFC), Halons, carbonettachloride, 1,1,1-trichlorocarbane, methyl bromide (see legal reference). Comment: Legal reference has no maximum 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). Comment: 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 (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): https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disciosure  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 reference)  P2.4* Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)  P2.4* Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference).  P3. Conformity verification & Eco design (EFP)  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 https://www.lenovo.com/us/en/compliance/eu-doc for EU and https://www.lenovo.com/us/en/compliance/eu-doc for EU and https://www.lenovo.com/us/en/compliance/eu-doc for EU and https://www.lenovo.com/us/en/compliance/eu-doc declaration  P5.1* The packaging ma	P1.2*		` ' ' '				
hydrobromofluorocarbons (HBFC), hydrochlorofluoroarbons (HGFC), Halons, carbontetrachlorida, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.  Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated 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 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 (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): https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disciosure  P2.8 Batteries  P2.1* If the product contains a battery or an accumulator, the batteny/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 reference)  P2.3* Batteries and accumulators are readily removable. (See legal reference)  P2.4* Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)  P2.5* When internal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional user", the related text is present and legible on the external packaging (see legal reference).  P3.1* The product is CE-marked to show conformance with applicable legal requirements (see legal reference).  The Declaration of Conformity verification & Ecc design (EIP)  P3.1* The product complies with the Eco design (EIP)  P5.2* The product packaging  P5.2* The packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavale	P1.3*				$\square$		
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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: https://www.lenovo.com/us/en/compliance/ecodeclaration  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) used (see legal reference).  P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.	P3.1*	The Dec	laration of Conformity can be requested at: https://www.lenovo.com/us/en/comp				
Required information is; given in item P15 or added to this document,  available at: 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) used (see legal reference).  P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.	P3.2*	The prod	luct complies with the Eco design requirements for energy-related products,				
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) used (see legal reference).  P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.  P6 Treatment information			l information is; given in item P15 or added to this document,	ce/eco-			
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) used (see legal reference).  P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.  P6 Treatment information		declarat	ion .				
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) used (see legal reference).  P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.  P6 Treatment information							
used (see legal reference).  P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.  P6 Treatment information	P5.1*	hexavale	ent chromium by weight of these together.				
P5.3* The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.  P6 Treatment information	P5.2*			of the material	(s)		
P6 Treatment information	P5.3*	The prod	luct packaging material is free from ozone depleting substances as specified in the Nal reference).	Montreal Proto	col 🔀		
	P6						
	P6.1*				$\square$		

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.

	ımber *	/2/2,/2/3,/282,/284,/D0W,/D0Y	Logo	Lend	21/0	
Issue da	te *	2021-06-21, revised 2022-08-03		Leik		ты
	- Enviro	mental attributes - Market requirements (See General NOTE GN l onmental conscious design	below)	Require		
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	N/A
P7		Disassembly, recycling			_	
P7.1*		t have to be treated separately are easily separable			<u>Ц</u>	
P7.2*		aterials in covers/housing have no surface coating.				
P7.3*		arts > 100 g consist of one material or of easily separable materials.				
P7.4*	•	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		$\boxtimes$		
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly a	vailable tools.	$\boxtimes$		
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).				
	Product lifetime					
P7.7*		g can be done e.g. with processor, memory, cards or drives				
P7.8*	Upgradir	g can be done using commonly available tools		$\boxtimes$		
P7.9	Spare parts are available after end of production for: years					
P7.10	Service i	s available after end of production for: years				
		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
P7.12		type: <i>Metal</i> Material type: <i>Plastic</i> Material materials of external electrical cables are PVC free.	и туре:		$\overline{}$	$\boxtimes$
P7.13		n materials of external electrical cables are PVC free.				
P7.13		plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bi	romino and 0.10	0/	<u> </u>	
P7.14	weight (' polyvinyl	plastic cashigrover parts > 25 g contain no more than 0,1% weight (1000 ppm) of 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 ir n 25% post-consumer recycled content.	e retardants, ar	nd		
P7.15		ircuit boards, PCBs (without components) are low halogen: all ☐ PCBs > 25 g ☐ ed in IEC 61249-2-21. (See ⁵NOTE B2)	are low haloge	en 🗌		
P7.16	Flame re Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:				
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without co additive) , TBBPA (reactive) (See NOTE B3), Other: chemical name:	omponents): , CAS #:			
	accordin	nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	, ,			
P7.18	concentr 1. Chem 2. Chem	ame retarded plastic parts > 25 g contain the following flame retardant substance: ations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "	s/preparations	in 🔲		
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043				
P7.19	assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which the following Risk phrases; and Hazard statements:				
P7.20*	The source(s) for these classifications is/are found at (add URL(s)):  , (See note B5)  * Postconsumer recycled plastic material content is used in the product (See Note B6):					
F1.2U*	If YES; a a) Of t a pe or	t 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 %.  weight of recycled material is g.	t (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 <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 *	7Z72,7Z73,7Z82,7Z84,7D0W,7D0Y	Logo	Len	0)/(0	1
Issue date *	2021-06-21, revised 2022-08-03		Len	OVU	тн
Product environr	nental attributes - Market requirements (continued)		Requi	remen	t met
Item			Yes	No	N/A

						_
P7.21*		bstance requirements of material content is used		TE D7):		
17.21	If YES; at least of a) Of total plas	one of the two alternative stic parts' weight > 25 g, by weight) is %.	s below shall be answe	ered;	ted as a percentage of	
	or	of the biobased plastic n	naterial is a			
P7.22*	Light sources are	e free from mercury, i.e.	less than 0,1 mg/lamp.			_
	If mercury is use	d specify: Number of lan	nps: and maximu	um mercury content pe	er lamp: mg	
P7.23*	If product include	es an integral display, the	e total mercury content	in the integrated displa	ay: mg 🗌 🔀	
P8	Batteries					
P8.1*		composition: Lithium M	langanese Dioxide			
P9		ption (See NOTE B8)				
P9.1		he following power levels  Power level at	s or energy consumption  Power level at	ns are reported:  Power level at	Reference/Standard for energy	
Energy mod		100 V AC	<b>115</b> V AC	230 V AC	modes and test method *	
Peak (On-r	nax)	W	W	W	Full load	
Category	/					
EPS No-loa		W	W	W		
	ower supply /					
	gged in the wall isconnected from					
the product						
PTEC *	•/	W	W	W		_
Typical Ene	ergy Consumption					
ETEC *		kWh/year	kWh/year	kWh/year		
	ergy Consumption					
		ency Level (International	Eπiciency Marking Pro	tocol) * :		
Display res	olution * :	megapixels				
Default time	e to enter energy					
P9.2*		it the energy save function	on is provided with the p	oroduct.		
P9.3	Energy efficiency	/ class (monitors only):				
P10	Emissions Noise emission	<ul> <li>Declared according to</li> </ul>	ISO 9296 (See NOTE	B9)		
P10.1	Mode	Mode description			it A-weighted sound power level, L <sub>WA,c</sub> (B)	_
	Idle	* Typical Configuration		* 5.9		
	Operation	* Typical Configuration (Stress CPU to 80% TDP)	or Stress GPU to	* 6.2		
		TDP)				
	Idle	* GPU Rich Configuration * GPU Rich Configuration		* 7.2 * 8.5		
	Operation	(Stress CPU to 80% TDP)		* 6.5		
	Idle	* Storage Rich Configura	tion	* 7.5		
	Operation	* Storage Rich Configura (Stress CPU to 80% TDP) TDP)		* 7.6		
	Other mode $L_{pAm}$ Other mode $L_{pAm}$ (operator position desktop – idle)			sition desktop – idle)		
	Other mode	Declared A-weighted sound $L_{p{\sf Am}}$	d pressure level (dB)	(operator po	sition desktop – operating)	_
	Measured accor		ECMA-74 (only if not covered by	FCMA-74)		
	Electromagneti		(Strily if flot Govered by			
P10.4		y meets the requirement	t for low frequency elec	tromagnetic fields of th	ne following voluntary	1
	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 <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>

Model num	ıber *	<b>7Z72,7Z73,7Z82,</b> 7	7Z84,7D0W,7D0	Υ			Logo	Long	1/0	
Issue date	*	2021-06-21, revis	ed 2022-08-03					Lenc	VO	м
	nvironn	nental attributes	- Market requ	uirements (cont	inued)			Require	ment	
Item								Yes	No	N/A
P12		nics for computin								
P12.1*		lay meets the ergo					gies.			$\boxtimes$
P12.2*	The phys	sical input device m	eets the requirer	ments of ISO 9995	and ISO 924	1-410.				$\boxtimes$
P13		ng and document								
P13.1*	Product   Product   Product   Product	packaging material packaging material packaging material packaging material packaging material	type(s): Paper- type(s): Plastic type(s): Plastic type(s): Paper-	Corrugated sing Solid EPE (solid LDPE (low dense) molded pulp	le wall weigh d Expanded p sity polyethyl	ht (kg): <b>0.23</b> polyethylene) v ene) weight (kg				
P13.2*		plastic primary pacl	0 0					$\boxtimes$		
P13.3*	consume	luct primary corruger recovered fiber c	ontent: 34 %		fy the contain	ed percentage	of minimur	n post-		
P13.4*		media for user and ronic, ⊠Paper, □		ntation (tick box):						
P13.5	Ùser and	only complete this i I product document ease specify:			ree:					
	,	hlorine-free al chlorine-free								
	Processe	ed chlorine-free						Ħ		
P14	Volunta	ry programs								
P14.1	The proc	luct meets the requ	irements of the fo	following voluntary	program(s):					
	Eco-labe	l: ENERGY STAR	Eco-label:		Eco-label:	Eco-labe	el:			
	Eco-labe	d:	Eco-label:		Eco-label:	Eco-labe	el:			
P15	Addition	nal information (Se	e NOTE B10)							
P9	Energy	consumption of co	omputer produc	cts; description o	f the tested p	roduct config	uration:			
	the information of the informati	Supplier makes no rmation contained 's knowledge ava tion. The informat t Representative f	in this docume ilable at the time ion provided he or more informa	ent. All information te of completion, tere is approximate ation.	on provided b and supplier e and provide	y supplier in to shall have no ed for informat	his docume obligation t	ent is provided to update such	based	on
P9		rgy Star Qualified www.energystar.go								

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**

(2anaral	informati	n

Odilolai illiolillatioli		
Commercial name (3.1 (b))	Lenovo ThinkSystem SR650 V2	Logo
	ThinkAgile HX5530/5531/7530/7531	
Contact Address (3.1 (b))	7001 Development Dr. Building 7	
	Morrisville, NC 27560	New York Control of the Control of t
	United States	Lenovo
Model Number (3.1 (c) )	7Z72,7Z73,7Z82,7Z84,7D0W,7D0Y	
Issue Date	2021-06-21, revised 2022-08-03	
Additional information		

	environmental attributes (EU) 2019/424 – Annex II points 3.1 and 3.3  Is the product consider to be in scope of ErP Lot 9  in scope  out of scope, product is out of scope as:
	le the product consider to be in seems of ErD Let 0.
1.a	Is the product consider to be in scope of ErP Lot 9 in scope of scope, product is out of scope as:
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	Year of manufacture: 2021
(3.1 (d))	
1.d (3.1 (p))	Product model part of a server product family?
1.e	Information on the secure data deletion functionality
(3.1 (n))	(a) instructions on how to use the functionality:  2 methods are provided to use the functionality.  1) Use a command line tool to do the secure data deletion on the remote target system via boot up a customized Linux OS on it.  Eg: OneCli.exe serase –bmc USERID:PASSWORD@xx.xx.xx.xxsftp root:password@xx.xxx.xx.x/home -log 5  2) Use BoMC to create a full functions bootable media, start the media and choose secure erase from the text menu.  (b) techniques used:  OS tools under Linux -> Standard Linux Open Source tool  (c) supported secure data deletion standard (if any): Secure Erase/block Erase/Crypto Erase, Sanitize  OR - Reference to other information: Hdparm: https://en.wikipedia.org/wiki/Hdparm  Nvme-format: https://en.wikipedia.org/wiki/Hdparm  Nvme-format: https://www.mankier.com/1/nvme-format  sg_sanitize: https://www.systutorials.com/docs/linux/man/8-sg_sanitize/ scrub: https://www.systutorials.com/docs/linux/man/1-scrub/  storcli: https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCLI RefMan_revf.pdf
1.f	
(3.1 (o))	Blade servers?
Recyclin	
2.a (3.3 (a))	Indicative weight range at component level, of the following critical raw materials:  (a) Cobalt in the batteries (b) Neodymium in the HDDs (c) less than 5 g (d) between 5 g and 25 g (e) between 5 g and 25 g (f) above 25 g (h) Albance description of the HDDs (o) Neodymium in the HDDs (o) Description of the HDDs (o) Description of the HDDs (o) Neodymium in the HDDs (o) Description of the HDDs
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:  https://thinksystem_lengyofiles.com/help/tonic/SR650V2/sr650v2_maintenance_manual.ndf

2.c	Firmware
	Reference to information on last available firmware:
	https://datacentersupport.lenovo.com/us/en/products/servers/thinksystem/sr650v2/7z73/downloads/driver-list/
Additiona	l information

## Server family specific information Family 1

Family no. / name		1 - 2 CPU populated family						
Model number(s) / Description		Standard or low-end performance configuration:						
(3.1 (c))		Processor(Minimum result of core count * frequency in family): Intel Silver 4309Y * 2, Storage: 16TB						
		3.5" HDD * 2, Memory: 16GB(lowest capacity in family) * 16, PSU: 500W * 2 High-end performance configuration:						
		Processor(Maximum result of core count * frequency in family): Intel Platinum 8380 * 2, Storage:						
		240GB SSD * 2, Memory: 32GB * 16, PSU: 1800W * 2						
		You can refer to						
		https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=49&type=1, along with						
Addition	al information	https://lenovopress.com/lp1392-thinksystem-sr650-v2-server &						
		https://dcsc.lenovo.com/#/categories/STG%40Servers%40Rack%20and%20Tower%20Servers%40T						
<u> </u>		hinkSystem%20SR650%20V2						
F1.a	t environmental attri	butes (EU) 2019/424 - Annex II	d 100 % of rated output power					
(3.1 (e))	PSU efficiency at 10 % (if applicable), 20 %, 50 % and 100 % of rated output power (expressed in % and rounded to the first decimal place): Multi-output Single-output							
	expressed in % and rounded to the lifst decimal place): [   Multi-output   Single-output							
		performance configuration(s):						
	10% <b>91.66</b> 20% <b>93</b>	<b>3.87</b> 50% <b>95.01</b> 100% <b>94.10</b>	Average 94.32					
	High-end performance configuration(s):							
	10% <b>92.38</b> 20% <b>94</b>	1.75 50% 95.15 100% 93.27	Average 94.39					
F1.b (3.1 (f))		of the rated load level	standard or low-end performance high-end performance					
F1.c	(rounded to three de- PSU rated power out		configuration: 0.990 standard or low-end performar	configuration: 1.000 nce high-end performance				
(3.1 (g))	(in Watts rounded to		configuration: 500	configuration: 1800				
	internal note:	<b>,</b>	C	· ·				
	If a product model is part of a ser product family shall be reported v	ver product family, all PSUs offered in a server with the information specified in (e) and (f)						
F1.d	idle state power		standard or low-end performar					
(3.1 (h)) F1.e	(in Watts and rounded to the first decimal place) configuration: 160.8 configuration: 184.1  List of all components for additional idle power allowances							
(3.1 (i))	List of all component	<u> </u>						
			low-end performance	high-end performance				
	CPU Performance	configuration	et (10 × PerfCPU W)	configuration:  1 Socket				
	Of O 1 chomianoc	=	et (10 × PerfCPU W)	S 2 Socket				
ıts	Additional PSU	No #: 1	et (/ ^ Felloro W)	Yes #: 1				
mer	HDD	Yes #: 2		No #: 0				
just	SDD	No #: 0		Yes #: 2				
power allowances adjustments during testing	Additional memory	Yes #: 2520	GB	Yes #: 508GB				
nce	Additional buffered DDF Additional I/O devices			No #: 0				
owa	Additional I/O devices	none		none				
dur dur			No Allowance	< 1 Gb/s: No Allowance				
) we			2,0 W/Active Port	= 1 Gb/s: 2,0 W/Active Port				
			and < 10 Gb/s: 4,0 W/Active Port	> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port				
idle			and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port				
			and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 50Gb/s: 20,0 W/Active Port				
T4.f		≥ 50 Gb/s	26,0 W/Active Port	≥ 50 Gb/s 26,0 W/Active Port				
F1.f (3.1 (j))	maximum power (in Watts and rounde	ed to the first decimal place)	standard or low-end performar configuration: 341.1	nce high-end performance configuration: 864.0				
F1.g	operating condition class		standard or low-end performar					
(3.1 (k))	(as defined in Table		configuration:	configuration:				
			□A1 ⊠A2 ⊠A3 ⊠A4	☐A1  ☐A2  ☐A3  ☐A4				
			Evention comments	Evantion comments				
			Exception comments	Exception comments				
F1.h	idle state power at the higher boundary temperature		standard or low-end performar					
(3.1 (I))	1 3		configuration: 219.7	configuration: 237.5				
F1.i (3.1 (m))	the active state efficiency and the performance in active state of the server;		standard or low-end performar configuration: 19.7	nce high-end performance configuration: 45.4				
· · · · · · · ///	active state of the Se	1701,	oormgaradon. 19.1	oormgaration. To.T				

Family no. / name		1 - 1 CPU populated family					
Model number(s) / Description		Standard or low-end performance configuration:					
(3.1 (c))		Processor(Minimum result of core count * frequency in family): Intel Silver 4309Y * 1, Storage: 16TB					
		3.5" HDD * 2, Memory: 16GB(lowest capacity in family) * 8, PSU: 500W * 2					
		High-end performance configuration:  Processor(Maximum result of core count * frequency in family): Intel Platinum 8380 * 1, Storage:					
		240GB SSD * 2, Memory: 32GB * 8, PSU: 1800W * 2					
		You can refer to					
		https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=49&type=1, along with					
Additional information		https://lenovopress.com/lp1392-thinksystem-sr650-v2-server &					
		https://dcsc.lenovo.com/#/categories/STG%40Servers%40Rack%20and%20Tower%20Servers%40T					
		hinkSystem%20SR650%20V2					
F1.a	t environmental attri	butes (EU) 2019/424 - Annex II	I points 3.1 and 3.3				
(3.1 (e))							
	(expressed in % and rounded to the first decimal place): Multi-output Single-output						
	Standard or low-end	performance configuration(s):					
	10% <b>91.66</b> 20% <b>93</b>	87 50% 95.01 100% 94.10 Average 94.32					
	High-end performance						
	10% 92.38 20% 94	<b>4.75</b> 50% <b>95.15</b> 100% <b>93.27</b>	Average 94.39				
F1.b (3.1 (f))		of the rated load level	standard or low-end performance high-end performance configuration: 0.990 configuration: 1.000				
F1.c	(rounded to three de PSU rated power out		standard or low-end performar				
(3.1 (g))	(in Watts rounded to the nearest integer) standard or low-end performance ingri-end performance configuration: 500 configuration: 1800						
	internal note:						
	If a product model is part of a ser product family shall be reported v	rver product family, all PSUs offered in a server with the information specified in (e) and (f)					
F1.d	idle state power		standard or low-end performar				
(3.1 (h)) F1.e	(iii tratic and realized to the met decimal place)						
(3.1 (i))	List of all componen						
			low-end performance	high-end performance			
l — —	CPU Performance	configuration	et (10 × PerfCPU W)	configuration:  1 Socket			
	or or orionnance	-	et (7 × PerfCPU W)	2 Socket			
lts l	Additional PSU	No #: 1	et (/ ^ Felloro W)	Yes #: 1			
mer	HDD	Yes #: 2		No #: 0			
just	SDD	No #: 0		Yes #: 2			
oower allowances adjustments during testing	Additional memory	Yes #: 1240	GB	Yes #: 252GB			
nce	Additional buffered DDF Additional I/O devices			No #: 0			
owa	Additional I/O devices	none		none			
dur dur			No Allowance	< 1 Gb/s: No Allowance			
wer		I 💳	2,0 W/Active Port	= 1 Gb/s: 2,0 W/Active Port			
idle po			and < 10 Gb/s: 4,0 W/Active Port	> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port			
Ρ̈́Ε			and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port			
			and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 50Gb/s: 20,0 W/Active Port			
F4.f		≥ 50 Gb/s	26,0 W/Active Port	≥ 50 Gb/s 26,0 W/Active Port			
F1.f (3.1 (j))	maximum power (in Watts and rounde	ed to the first decimal place)	standard or low-end performar configuration: 181.9	nce high-end performance configuration: 468.9			
F1.g	operating condition of		standard or low-end performar				
(3.1 (k))	(as defined in Table	6 or ErP lot 9)	configuration:	configuration:			
			□A1 ⊠A2 ⊠A3 ⊠A4	☐A1  ☐A2  ☐A3  ☐A4			
			Evention	Franking			
			Exception comments	Exception comments			
F1.h	idle state power at the higher boundary temperature standard or low-end performance high-end perfor			nce high-end performance			
(3.1 (I))	of the declared operating condition class (in Watts)		configuration: 155.3	configuration: 167.8			
F1.i (3.1 (m))		ency and the performance in	standard or low-end performar				
(0.1 (111))	active state of the se	ivei,	configuration: 20.9	configuration: 40.9			