



### 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 *	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/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 *	Lenovo ThinkSystem SR650				
Model number *	7X05, 7X06, 7Z20, 7Y94				
Issue date *	2020-01-31				
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 *	2020-1-31		Paguirement met
Model number *	7X05, 7X06, 7Z20, 7Y94	Logo	Lenovo

Product	environmental attributes - Legal requirements	Require	men	t met
Item		Yes	No	N/A
P1	Hazardous substances and preparations			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	$\boxtimes$		
P1.2*	Products do not contain Asbestos (see legal reference).  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-trichloroethane, 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).			
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/sustainability-resources			
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 lega reference)			
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	$\boxtimes$		
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)			X
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	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: <a href="https://www.lenovo.com/us/en/compliance/eu-doc">https://www.lenovo.com/us/en/compliance/eu-doc</a>		Ш	Ш
P3.2*	The product complies with the Eco design requirements for energy-related products,	$\boxtimes$		
	(see legal reference).  Required information is: given in item P15 or added to this document,	$\boxtimes$		
	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 an hexavalent chromium by weight of these together.	d 🔀		
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(sused (see legal reference).	s) 🔀		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protoco (see legal reference).  Comment: Legal reference has no maximum concentration values.	ol 🔀		
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).			

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	7X05, 7X06, 7Z20, 7Y94	Logo	Longvo
Issue date *	2020-1-31		LEI IOVO

Product	t environmental attributes - Market requirements (See General NOTE GN below)			
		Require	ment	met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	N/A
P7	Design, Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable			Ц.
P7.2*	Plastic materials in covers/housing have no surface coating.			
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.		Щ.	Ц_
P7.4*	Plastic parts > 25 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).	$\boxtimes$		
D7 74	Product lifetime	<u> </u>		
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives		Щ.	_Ц_
P7.8*	Upgrading can be done using commonly available tools	$\boxtimes$		
P7.9	Spare parts are available after end of production for: years			
P7.10	Service is available after end of production for: years			
D= 448	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
P7.12	Material type: Steel Material type: PC+ABS Material type:  Insulation materials of external electrical cables are PVC free.		$\boxtimes$	
P7.13	Insulation materials of internal electrical cables are PVC free.	-H	$\overline{X}$	+
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%			
F1.14	weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and			Ш
	polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing			
D7.45	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			
P7.16	as defined in IEC 61249-2-21. (See <sup>5</sup> NOTE B2)  Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:			
F1.10	Marking:	Ш		Ш
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components):			
	TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: chemical name: , CAS #:			
	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 #: (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:			
D7 40	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been			
P7.19	assigned 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):		$\square$	
1 7.20	r concentration reception places material content to account the product (coe note bo).	ш		Ш
	If YES; at least one of the two alternatives below shall be answered;			
	<ul> <li>a) Of total plastic parts' weight &gt; 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is</li> <li>%.</li> </ul>			
	or			
	b) The 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 <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 *	7X05, 7X06, 7Z20, 7Y94	Logo	Lonovo
Issue date *	2020-1-31		Lei IOVO,

Product environmental attributes - Market requirements (continued)			nt met
Item	Yes	No	N/A

	Material and substance requirements (continued)							
P7.21*	Biobased plastic	material content is used	in the product (See NC	OTE B7):			$\boxtimes$	
	If YES; at least one of the two alternatives below shall be answered;  a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %.  or  b) The weight of the biobased plastic material is 7.							
		of the biobased plastic n						
P7.22*		free from mercury, i.e.		um maraum, cantant na	rlama, ma			$\boxtimes$
P7.23*	If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg  If product includes an integral display, the total mercury content in the integrated display: mg							
P8	Batteries	3 ari integral display, the	total increary content	in the integrated displa	iy. iiig			
P8.1*	Battery chemical	composition:						
P9		ption (See NOTE B8)						
P9.1		ne following power level	e or energy consumption	one are reported:				
Energy mo		Power level at	Power level at	Power level at	Reference/Standard	for 6	neray	
Lincigy ino	uc	100 V AC	115 V AC	230 V AC	modes and test meth		, nergy	
Peak (On-I	max)	W	W	W	Full load			
Categor		1 14/	100	10/				
EPS No-loa		W	W	W				
(External power supply / charger plugged in the wall								
	lisconnected from							
the product								
PTEC *	,	W	W	W				$\boxtimes$
	ergy Consumption							
ETEC *		kWh/year	kWh/year	kWh/year				$\boxtimes$
	ergy Consumption	I I /I . I I' I	Efficient Markin Da	( 1\) *				
		ncy Level (International	Efficiency Marking Pro	tocol) * :				
Display res		negapixels						$\boxtimes$
	e to enter energy s	ave mode: minut	tes					$\boxtimes$
P9.2*	Information abou	t the energy save function	on is provided with the	product.		$\boxtimes$		
P9.3	Energy efficiency	class (monitors only):						$\boxtimes$
P10	Emissions				•			
		<ul> <li>Declared according to</li> </ul>	ISO 9296 (See NOTE					
P10.1	<del></del>	Mode description			t A-weighted sound por	wer lev	el, L <sub>WA,c</sub>	(B)
	Idle	* HDD idle		* 6.1				
	Operation * HDD Operating * 6.2							
	Other mode Declared A-weighted sound pressure level (dB) $L_{pAm}$ 47 (operator position desktop – idle)							
	Other mode	1						
	Measured accord			1				
	Measured according to: ISO 7779 ECMA-74 Other (only if not covered by ECMA-74)							
	Electromagnetic		(c) If flot covered by					
P10.4		meets the requirement	t for low frequency elec	tromagnetic fields of th	e following voluntary		1	1 🛛
	program(s):		11.1.1, 11.1.1	<b>5</b>	3	_		لكا د

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

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;

Model number *		7X05, 7X06, 7Z20, 7Y94			Logo	Lond		
Issue dat	te *	2020-1-31				Lenc	νο	тн
Product	environr	nental attributes - Market requi	rements (continued)			Require	ment	met
Item						Yes	No	N/A
P12	Ergono	mics for computing products						
P12.1*	The disp	play meets the ergonomic requirement	ts of ISO 9241-307 for visual di	splay technolog	gies.			$\boxtimes$
P12.2*	The phy	sical input device meets the requirem	ents of ISO 9995 and ISO 924	1-410.				$\boxtimes$
P13	Packagi	ng and documentation						
P13.1*	Product	packaging material type(s): LDPE packaging material type(s): EPE packaging material type(s):	weight (kg): 0.07 weight (kg): 1.3 weight (kg):					
P13.2*	Product	plastic primary packaging is free from	PVC.			$\boxtimes$		
P13.3*		duct primary corrugated fiberboard per recovered fiber content: 55 %	packaging, specify the contained	ed percentage	of minimum	post-		
P13.4*		media for user and product document ronic, ⊠Paper, ⊡Other	ation (tick box):					
P13.5	Ùser and	only complete this item if paper docur d product documentation on paper me lease specify:	,					
	•	hlorine-free al chlorine-free						

Date:

Date:

Date:

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Logo

Product category:

Product category:

Product category:

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.

Processed chlorine-free

Additional information (See NOTE B10)

Account Representative for more information.

The product meets the requirements of the following voluntary program(s):

Criteria version:

Criteria version:

Criteria version:

Energy consumption of computer products; description of the tested product configuration:

See Energy Star Qualified Enterprise Servers for the latest information: https://www.energystar.gov/products/data\_center\_equipment/enterprise\_servers

Voluntary programs

**ENERGY STAR®** 

Eco-label:

Eco-label:

Model number \*

P14

P15

P9

P9

P14.1

# 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**

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General	ın	ıt∩rr	nation

Commercial name (3.1 (b) )	Lenovo ThinkSystem SR650	Logo	
Contact Address (3.1 (b) )	7001 Development Dr. Building 7, Morrisville, NC 27560, United		
	States		Lonovo
Model Number (3.1 (c))	7X05, 7X06, 7Z20, 7Y94		Lenovo
Issue Date	2020-01-31		
Additional information			

Product 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 out of scope, product is out of scope as:					
1.b (3.1 (a))	Server type Rack Server High Performance Computing (HPC)					
(3.1 (a))	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: 2017					
1.d	Product model part of a server product family? No Yes					
(3.1 (p))	List of all model configurations that are represented by the model:  http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR650					
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.xx:/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://www.mankier.com/1/nvme-format					
	sg_sanitize: https://www.systutorials.com/docs/linux/man/8-sg_sanitize/					
	scrub: <a href="https://www.systutorials.com/docs/linux/man/1-scrub/">https://www.systutorials.com/docs/linux/man/1-scrub/</a>					
	$storcli:  \underline{https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCLI\_RefMan\_revf.pdf}$					
1.f	Blade servers? No Yes					
(3.1 (o))	list of recommended combinations with compatible chassis:					
Recycling						
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					
(3.3 (a))	i cos trair o g					
	between 5 g and 25 g					
0.1	above 25 g above 25 g					
2.b (3.3 (b))	Instructions on the disassembly operations					
(0.0 (5))	<ul><li>(a) the type of operation;</li><li>(b) the type and number of fastening technique(s) to be unlocked;</li></ul>					
	(c) the tool(s) required.					
2.c	OR - Reference to other information: https://thinksystem.lenovofiles.com/help/index.jsp  Firmware					
2.0	Reference to information on last available firmware:					
	https://datacentersupport.lenovo.com/cn/en/products/servers/thinksystem/sr650/downloads/driver-list/					
Additional	Additional information					
<u> </u>						

# Server family specific information Family 1

Family r	io. / name	□ 1 - 1 CPU populated family			
Model n	umber(s) / Description				
(3.1 (c))	. ,				nily): Intel Xeon Silver 4208, Storage: 1TB
		HDD * 2, Memory	: 16GB(lowe	est capacity in family) * 6, PSU	J: 550W * 1, NIC: 4port 1G RJ45
		High-end performance configuration:			
					mily): Intel Xeon Gold 8280, Storage:
				B * 12, PSU: 750W * 2, NIC: 4	
		You can refer to h	ttps://www.p	olugioadsolutions.com/80Plus	PowerSuppliesDetail.aspx?id=49&type=1
Addition	al information	along with http://ps	sref.lenovo.co	om/Product/ThinkSystem/ThinkS	System SR650 for the PSU efficiency
		details.			
Produc	t environmental attril	<b>butes</b> (EU) 2019/4	24 – Annex II	points 3.1 and 3.3	
F1.a				d 100 % of rated output power	
(3.1 (e))				e): Multi-output 📈 Single	e-output
	(0		and a second		
	Standard or low-end	performance config	uration(s):		
				93.99% Average 94.30%	
				3	
	High-end performand	ce configuration(s):			
	10% <b>91.56%</b> 20%	93.25% 50% 94.7	<mark>78%</mark> 100% \$	93.33% Average 93.79%	
F1.b	Power factor at 50 %			standard or low-end performar	nce high-end performance
(3.1 (f))	(rounded to three dec			configuration: 0.990	configuration: 1.000
F1.c	PSU rated power out	put		standard or low-end performar	
(3.1 (g))	(in Watts rounded to		)	configuration: 550	configuration: <b>750</b>
	,	3	,	3	3
	internal note:  If a product model is part of a ser product family shall be reported w	ver product family, all PSUs offe	ered in a server		
		vith the information specified in	(e) and (f)		1:1 1
F1.d	idle state power			standard or low-end performar	
(3.1 (h))	(in Watts and rounde			configuration: 68.6	configuration: 90.8
F1.e	List of all component	ts for additional idle	power allowa	ances	
(3.1 (i))		i	standard or	low-end performance	high-end performance
			configuratio	•	configuration:
	CPU Performance				
	CFO Feriorillance		_	et (10 × PerfCPU W)	1 Socket
"			2 Socket (7 × PerfCPU W)		2 Socket
power allowances adjustments during testing	Additional PSU				<b>Yes</b> (Yes / No) #: <b>1</b>
ţ.	HDD		Yes (Yes / No)		<b>No</b> (Yes / No) #: <b>0</b>
ins	SDD		No(Yes / No) i		<b>Yes</b> (Yes / No) #: 2
ng ad	Additional memory		Yes (Yes / No)	#: <b>92GB</b>	<b>Yes</b> (Yes / No) #: <b>380GB</b>
ces	Additional buffered DDF	R channel	No(Yes / No) i	#: <b>0</b>	<b>No</b> (Yes / No) #: <b>0</b>
/an g te	Additional I/O devices		none		none
v in			< 1 Gh/e: I	No Allowance	< 1 Gb/s: No Allowance
r al			< 1 Gb/s: No Allowance = 1 Gb/s: 2,0 W/Active Port		= 1 Gb/s: 2,0 W/Active Port
× e					
og .			> 1 Gb/s a	nd < 10 Gb/s: 4,0 W/Active Port	> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port
idle			≥ 10 Gb/s	and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port
			≥ 25 Gb/s	and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 50Gb/s: 20,0 W/Active Port
			> 50 Gb/s	26,0 W/Active Port	≥ 50 Gb/s 26,0 W/Active Port
F1.f	maximum power		£ 30 Ob/3	standard or low-end performar	
(3.1 (j))	(in Watts and rounde	d to the first decima	al nlace)	configuration: 134	configuration: 364.6
F1.g	operating condition c		ii piace)	standard or low-end performar	
(3.1 (k))	(as defined in Table			configuration:	configuration:
(0.1 (1.7)	(as defined in Table )	o of EIP lot 9)			
				A1	□A1 ⊠A2 □A3 □A4
	Evention comments				Formation assessments
	Exception comments Exception comments				
T1 k	idle state == -1.0-	o biabou b		atandard ar law and markey	high and naufarrer
F1.h				0 1	
(3.1 (I)) of the declared operating condition class (in Watts) configuration: 100 configuration: 120					
F1.i	, , , , , , , , , , , , , , , , , , , ,		standard or low-end performar		
(3.1 (m))	active state of the se	rver;		configuration: 18.7	configuration: 31.9

# Server family specific information Family 2

Family no. / name		2 - 2 CPUs 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 Xeon Bronze 3104, Storage: 1TB HDD * 2, Memory: 16GB(lowest capacity in family) * 12, PSU: 550W					
				ance configuration:			
		Processor(Maxin	num result o	of core count * frequency in fa	amily): Intel Xeon Gold 8280 * 2, Storage:		
				B * 24, PSU: 750W * 2			
Additional information  You can refer to <a href="https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=49">https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=49</a> along with <a href="https://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR650">https://psref.lenovo.com/Product/ThinkSystem_SR650</a> for the PSU efficience.					PowerSuppliesDetail.aspx?id=49&type=1 System SR650 for the PSU efficiency		
Produc	t environmental attril	details.	24 – Anney II	points 3.1 and 3.3			
F2.a	See family 1	20100 (20) 2010/1	LT / WINOX II	pointe of Faria of			
(3.1 (e))	Or specific to this fan	nily:					
				d 100 % of rated output power			
				e) : Multi-output Single	e-output		
	standard or low-end   10% 20%	performance config 50%	uration(s): 100%	Averege			
	10 /0 20 /0	30 /6	100 /6	Average			
	high-end performanc	- ',					
E0 h	10% 20%	50%	100%	Average			
F2.b (3.1 (f))	Power factor at 50 % (rounded to three dec		evei	See family 1			
, ,	(rounded to times det	omiai piacco)		Or specific to this family: standard or low-end performan	ice high-end performance		
				configuration:	configuration:		
F2.c	PSU rated power out			See family 1			
(3.1 (g))	(in Watts rounded to	the nearest integer	)	Or specific to this family:			
	internal note:			standard or low-end performan	ice high-end performance		
	If a product model is part of a sen product family shall be reported w	ver product family, all PSUs off vith the information specified in	ered in a server (e) and (f)	configuration:	configuration:		
F2.d	idle state power			standard or low-end performan			
(3.1 (h))	(in Watts and rounde			configuration: 82.5	configuration: 107.9		
F2.e (3.1 (i))	List of all component	is for additional idle		low-end performance	high-end performance		
( ) ( ) ( )			configuratio	-	configuration:		
			et (10 × PerfCPU W)	1 Socket			
			2 Socke	et (7 × PerfCPU W)	∠ 2 Socket		
ents			No(Yes / No) 7		Yes(Yes / No) #: 1		
stm	HDD SDD		Yes(Yes / No) #: 2		No(Yes / No) #: 0 Yes(Yes / No) #: 2		
adju g	Additional memory		No(Yes / No) #: 0 Yes(Yes / No) #: 188		Yes(Yes / No) #: 764		
power allowances adjustments during testing	Additional buffered DDR channel		Yes(Yes / No) #: 4		Yes(Yes / No) #: 4		
wan	Additional I/O devices		none		none		
allov durir			< 1 Gb/s: N	No Allowance	< 1 Gb/s: No Allowance		
wer			= 1 Gb/s: 2	2,0 W/Active Port	= 1 Gb/s: 2,0 W/Active Port		
			> 1 Gb/s a	nd < 10 Gb/s: 4,0 W/Active Port	> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port		
idle			≥ 10 Gb/s	and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port		
			≥ 25 Gb/s	and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 50Gb/s: 20,0 W/Active Port		
<b>50.6</b>			≥ 50 Gb/s	26,0 W/Active Port	≥ 50 Gb/s 26,0 W/Active Port		
F2.f (3.1 (j))	Maximum power (in Watts and rounde	d to the first decima	al place)	standard or low-end performan configuration: 191.1	ce high-end performance configuration: 674.2		
(3.1 (k))	Operating condition of		ai piaco)	See family 1	oomigaration. V N2		
	(as defined in Table 6	6 or ErP lot 9)		Or specific to this family:			
				standard or low-end performan			
				configuration:	configuration:		
				☐ A1	A1		
				A2	A2		
				☐ A3	☐ A3 ☐ A4		
				Exception comments	Exception comments		
F2.h							
(3.1 (I)) of the declared operating condition class (in Watts)		5	Or specific to this family:	and the second of			
	(III vvalts)	)		standard or low-end performan			
F2.i	the active state efficie	configuration: 110.4 configuration: 137 state efficiency and the performance in See family 1		Comiguration. 131			
(3.1 (m))							
				standard or low-end performan			
				configuration: 13.6	configuration: 38		