

### 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 *	tinformation * Lenovo Global Environmental Affairs		Lenovo			
e-mail address	Alvin L Carter					
	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 stateme	conforms to the statements given in this declaration.					
Type of product * SERVER						
Commercial name *	Lenovo ThinkSystem SR950					
Model number *	7X11, 7X12, 7X13, 7Z12, 7Z13					
Issue date *	July 15, 2020					
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 n	umber *	7X11, 7X12, 7X13, 7Z12, 7Z13		Logo				
lssue da	ite *	July 15, 2020			Leno		Этм	
Produc	t environ	mental attributes - Legal requirements			Require	ment	t met	
Item					Yes	No	N/A	
P1	Hazardo	us substances and preparations						
P1.1*	Product	do comply with current European RoHS Directive. (Se	e legal reference and NOTE	EB1)	$\boxtimes$			
P1.2*		do not contain Asbestos (see legal reference). t: Legal reference has no maximum concentration valu	le.		$\boxtimes$			
P1.3*	hydrobro trichloro	do not contain Ozone Depleting Substances: Chloroflu mofluorocarbons (HBFC), hydrochlorofluorcarbons (HG ethane, methyl bromide (see legal reference). Commen ation values.	CFC), Halons, carbontetrach					
P1.4*	Product	do not contain more than; 0,005% polychlorinated bip I (PCT) in preparations (see legal reference).	henyl (PCB), 0,005% polych	lorinated	$\boxtimes$			
P1.5*	Product	do not contain more than 0,1% short chain chloropara ntaining at least 48% per mass of chlorine in the SCCP		bon atoms in t	he 🔀			
P1.6*	(see leg	h direct and prolonged skin contact do not release nick al reference). it: Max limit in legal reference when tested according to		),5 μg/cm²/we	ek 🔀			
P1.7*	REACH	Article 33 information about substances in articles is aw ww.lenovo.com/us/en/sustainability-resources		contact):	$\boxtimes$			
P2	Batterie	8						
P2.1*		duct contains a battery or an accumulator, the battery/ nformation on proper disposal is provided in user man		the disposal	$\boxtimes$			
P2.2*		Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal X I I I I I I I I I I I I I I I I I I						
P2.3*	Batterie	and accumulators are readily removable. (See legal re	eference)		$\boxtimes$			
P2.4*	Docume	ntation includes the number of cycles the (secondary) b	pattery can withstand. (See I	egal reference	e)			
P2.5*		ernal batteries of a notebook computer cannot be "acc e related text is present and legible on the external pac						
P3	Conform	nity verification & Eco design (ErP)						
P3.1*		uct is CE-marked to show conformance with applicable aration of Conformity can be requested at: https://www						
P3.2*	•	uct complies with the Eco design requirements for ene Il reference).	rgy-related products,		$\square$			
	Require	l information is; given in item P15 or added to available at: https://www.len	,	eco-declaratio				
P5	Product	packaging						
P5.1*	Packagi	g and packaging components do not contain more nt chromium by weight of these together.	than 0,01% lead, mercury	y, cadmium a	and 🔀			
P5.2*	The pac	aging materials are marked with abbreviations and nue e legal reference).	mbers indicating the nature	of the materia	l(s) 🔀			
P5.3*	The prod (see leg	uct packaging material is free from ozone depleting sub l reference). it: Legal reference has no maximum concentration valu		Montreal Proto	icol 🔀			
P6		nt information						
P6.1*	Informat	on for recyclers/treatment facilities is available (see leg	al 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 n	umber *	7X11, 7X12, 7X13, 7Z12, 7Z13	Logo				
Issue da	ite *	July 15, 2020		Len	OVC	<b>D</b>	
Product		mental 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. Disassembly, recycling		Yes	No	N/A	
P7.1*	0 /	at have to be treated separately are easily separable					
P7.2*		naterials 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.			╞	╞	
P7.5	-	arts are free from metal inlays or have inlays that can be removed with commonly a	available tools		╞	╞	
P7.6*							
17.0	Product						
P7.7*		ng can be done e.g. with processor, memory, cards or drives					
P7.8*		ng can be done using commonly available tools			H	⊢⊢	
P7.9		arts are available after end of production for: years				⊢⊢	
P7.10		s available after end of production for: years				╞	
		and substance requirements					
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):					
			al type:				
P7.12		n materials of external electrical cables are PVC free.			$\square$		
P7.13		n materials of internal electrical cables are PVC free.			$\square$		
P7.14	weight (* polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 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 i in 25% post-consumer recycled content.	e retardants, an	d			
P7.15	Printed c	circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g and the second sec	are low haloge	n 🗌			
P7.16		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 c additive) , TBBPA (reactive) (See NOTE B3), Other: chemical name:	omponents): ,CAS #:				
		nemical specifications of flame retardants in printed circuit boards (without compon g ISO 1043-4:	ents) > 25 g				
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 #: "	es/preparations i	n			
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 104					
P7.19		; parts > 25 g, flame retardant substances/preparations above 0,1% are used which I the following Risk phrases; and Hazard statements:	h have been				
			See note B5)				
P7.20*	lfYES;a a) Oft ape or	sumer recycled plastic material content is used in the product (See Note B6): at least one of the two alternatives below shall be answered; total plastic parts' weight > 25 g, the postconsumer recycled plastic material conter ercentage of total plastic by weight) is 27.3%. a weight of recycled material is g.	nt (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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>.

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 *	7X11, 7X12, 7X13, 7Z12, 7Z13	Logo	Lenovo
Issue date *	July 15, 2020		Lenovo.
Product environment	nental attributes - Market requirements (continued)		Requirement met

Requirement metYesNoN/A

	Material and substance requirements (continued)							
P7.21*		material content is used		DTE B7):				
	a) Of total plas	ne of the two alternative stic parts' weight > 25 g, by weight) is %.		,	ated as a percentage of			
	b) The weight	of the biobased plastic n	naterial is g.					
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. X If mercury is used specify: Number of lamps: And maximum mercury content per lamp: X Maximum mercury content per lamp: X X X X X X X X X X X X X X X X X X X							
P7.23*		es an integral display, the						
P8	Batteries							
P8.1*	Battery chemical composition: Lithium Manganese Dioxide							
P9	Energy consum	ption (See NOTE B8)						
P9.1		he following power levels	s or enerav consumptio	ns are reported:				
Energy mod		Power level at	Power level at	Power level at	Reference/Standard		ах 🔀	
Peak (On-r	maxl	100 V AC W	115 V AC W	230 V AC W	modes and test metho	a		
Peak (UII-I	lidx)	VV	VV	vv	ruii ioau			
Category	<u>y</u>							
EPS No-loa	ad	W	W	W				
	ower supply /							
	gged in the wall							
	isconnected from							
the product PTEC *	)	W	W	W				
	ergy Consumption		vv	vv			$\bowtie$	
ETEC *	ligy consumption	kWh/year	kWh/year	kWh/year			$\boxtimes$	
	ergy Consumption		kirin your	itt in your				
External Po	ower Supply Efficie	ency Level (International	Efficiency Marking Pro	tocol) * :			$\mathbf{X}$	
Display res	olution * :	megapixels						
Default time	e to enter energy	save mode: minut	es					
P9.2*	Information about	it the energy save function	on is provided with the p	product.				
P9.3	Energy efficiency	v class (monitors only):						
P10	Emissions							
		<ul> <li>Declared according to</li> </ul>	ISO 9296 (See NOTE					
P10.1	Mode	Mode description			nit A-weighted sound pow	ver level, L	<i>w</i> A,c (B)	
	Idle * HDD Idle			* 5.79				
Operation * HDD Operating			* 5.77					
	Other mode Declared A-weighted sound pressure level (dB) $L_{pAm}$ 57.9 (operator position desktop – idle)							
	Other mode Declared A-weighted sound pressure level (dB) $L_{pAm}$ 57.7 (operator position desktop – operating)							
	Measured according to: ISO 7779 ECMA-74 Other (only if not covered by ECMA-74)							
	Electromagneti		(only if not covered by					
P10.4		y meets the requirement	for low frequency elect	romagnetic fields of t	he following voluntary			
	program(s).							

Item

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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

Model nu	umber * 7X11, 7X	12, 7X13, 7Z12, 7Z13			Logo				
Issue da	te * July 15, 2	July 15, 2020				Lenc	_enovo		
Product	t environmental att	ributes - Market requiremen	ts (continued)			Require	ment	met	
Item						Yes	No	N/A	
P12		omputing products							
P12.1*	The display meets t	he ergonomic requirements of ISC	O 9241-307 for visual	display technolog	gies.			$\boxtimes$	
P12.2*	The physical input of	device meets the requirements of	ISO 9995 and ISO 92	241-410.				$\square$	
P13	Packaging and do	cumentation							
P13.1*	Product packaging Product packaging	material type(s): <i>Wood</i> we material type(s): <i>HDPE Foam</i> we	eight (kg): <b>3.5</b> eight (kg): <b>9</b> eight (kg): <b>3.4</b> eight (kg): <b>0.001</b>						
P13.2*		Product plastic primary packaging is free from PVC.							
P13.3*		y corrugated fiberboard packagir d fiber content: <b>35</b> %	ng, specify the conta	ined percentage	of minimum	n post-			
P13.4*	Specify media for user and product documentation (tick box):								
P13.5		ete this item if paper documentatio ocumentation on paper media is c fy:							
	Totally chlorine-free Elemental chlorine-								
	Processed chlorine	-free							
P14	Voluntary progran	าร							
P14.1	The product meets	the requirements of the following	voluntary program(s):	:					
	ENERGY STAR® Eco-label: Eco-label:	Criteria version: Criteria version: Criteria version:	Date: Date: Date:	Product o Product o Product o	category:				
P15	Additional information	ation (See NOTE B10)							
P9		ion of computer products; desc							
	the information co supplier's knowle information. The i	akes no representations, guara ontained in this document. All in dge available at the time of com nformation provided here is app ntative for more information.	formation provided pletion, and supplie	by supplier in the shall have no	his docume obligation to	nt is provided o update such	based	don	
P9	See Energy Star G	Qualified Enterprise Servers for a systar.gov/products/data_center							

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**

### General information

Commercial name (3.1 (b) )	Lenovo ThinkSystem SR950	Logo		
Contact Address (3.1 (b) )	7001 Development Dr. Building 7			
	Morrisville, NC 27560			
	United States	Lenovo		
Model Number (3.1 (c))	7X11, 7X12, 7X13, 7Z12, 7Z13			
Issue Date	July 15, 2020			
Additional information				

Product e	nvironmental 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)         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: 2020					
(3.1 (d)) 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: http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR950					
1.e	Information on the secure data deletion functionality					
(3.1 (n))	<ul> <li>(a) instructions on how to use the functionality:</li> <li>2 methods are provided to use the functionality.</li> <li>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.</li> <li>Eg: OneCli.exe serase -bmc USERID:PASSWORD@xx.xx.xxxsftp root:password@xx.xxx.xx.r/home -log 5</li> <li>2) Use BoMC to create a full functions bootable media, start the media and choose secure erase from the text menu.</li> <li>(b) techniques used:</li> <li>OS tools under Linux -&gt; Standard Linux Open Source tool</li> <li>(c) supported secure data deletion standard (if any):</li> <li>Secure Erase/block Erase/Crypto Erase, Sanitize</li> </ul> OR - Reference to other information: Hdparm: <a href="https://www.mankier.com/1/nvme-format">https://www.mankier.com/1/nvme-format</a> sg_sanitize: <a href="https://www.systutorials.com/docs/linux/man/8-sg_sanitize/scrub">https://www.systutorials.com/docs/linux/man/8-sg_sanitize/scrub</a> storcli: <a href="https://www.systutorials.com/docs/linux/man/1-scrub/storcli">https://www.systutorials.com/docs/linux/man/1-scrub/</a> storcli: <a href="https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCL1">https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCL1</a> RefMan revf.pdf					
1.f						
(0.4.(-))	Blade servers? X No Yes 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         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure					
	Instructions on the disassembly operations					
(3.3 (b))	<ul> <li>(a) the type of operation;</li> <li>(b) the tool(s) required.</li> <li>OR - Reference to other information: https://thinksystem.lenovofiles.com/help/topic/7X12/SR950_maintenance_manual.pdf</li> </ul>					
2.c	Firmware Reference to information on last available firmware: https://datacentersupport.lenovo.com/cn/en/products/servers/thinksystem/sr950/7x12/downloads/driver-list/					
Additional i	nformation					

## Server family specific information Family 1

Family r	no. / name	1 - 2 CPU po	nulated fami	ily		
-	umber(s) / Description			ance configuration:		
(3.1 (c) )	······································		•	8256 4C 3.8GHz CPUs		
		12x ThinkSystem 16GB 2Rx8 PC4-2666V TruDDR4 RDIMMs				
				ATA 6Gbps Non-Hot Sv	wap SSI	)
				pm 12Gb SAS HDDs		
		1x ThinkSystem				
				i 4GB Flash PCle 12Gb	b Adapte	er
		2x 1100W Platin				
		High-end perform		guration: 8280L 28C 2.7GHz CPU		
				PC4-2933Y TruDDR4 I		
		· · · · ·		ATA 6Gbps Non-Hot Sv		
				Series 960GB 6Gb/s 2		
		1x ThinkSystem				
		1x ThinkSystem	RAID 930-16	i 4GB Flash PCle 12Gb	b Adapte	er
				GBase-T Adapter		
				1x40GbE QSFP+ Adapt	ter	
		2x 2000W Platin	um Power Si	upplies		
A .		You can refer to		·····		
Addition	nal information					Detail.aspx?id=49&type=1 along with n_SR950 for the PSU efficiency details.
Due due					KSysten	I_SR950 for the PSO eniciency details.
	t environmental attri					
F1.a				nd 100 % of rated output		
(3.1 (e))	(expressed in % and	d rounded to the firs	t decimal place	ce): 🗌 Multi-output 🛛 🛛	Single	-output
	Otomaland a di					
	Standard or low-end		guration(s):			
	<b>700-014189-1500 (</b> 10% <b>91.6</b> 20%	<b>94.1</b> 50% <b>94.8</b>	100% 04 7	Average 04 5		
	10% 91.0 20%	<b>94.1</b> 50% <b>94.0</b>	100% 94.7	Average 94.5		
	FSF056 (AcBel 110	0W)				
	•	<b>94.1</b> 50% <b>95.0</b>	100% 93.3	Average 94.1		
	20,0			, tronago <b>v</b>		
	High-end performan	ce configuration(s):				
	700-014265-1500 (/					
	10% <b>92.5</b> 20%	94.8 50% 95.3	100% <mark>93.3</mark>	Average 94.4		
				-		
	700-014265-9000 (/					
	10% <b>92.3</b> 20%	9 <b>4.6</b> 50% 95.2	100% <mark>93.1</mark>	Average 94.3		
	DPS-2000HB A (De		4000/ 00 0			
	10% <b>91.6</b> 20%	9 <b>3.4</b> 50% 94.5	100% 92.6	Average 93.5		
	Other optional confi	auration(c):				
	700-014190-1500 (					
	10% <b>91.2</b> 20%		100% 93 9	Average 94.5		
	10/0 0112 20/0			, tronago <b>v</b> no		
	DPS-1600AB-11 X	(Delta 1600W)				
	10% <mark>92.6</mark> 20%	<b>94.8</b> 50% <b>95.2</b>	100% <mark>93.5</mark>	Average 94.5		
				-		
F1.b	Power factor at 50 %	% of the rated load le	evel	standard or low-end pe	erforman	ce high-end performance
(3.1 (f))	(rounded to three de	ecimal places)		configuration: 1.000(all	l <mark>l suppo</mark> l	
				PSUs)		PSUs)
F1.c	PSU rated power ou		,	standard or low-end pe	erforman	
(3.1 (g))	(in Watts rounded to	the nearest integer	r)	configuration: 1100		configuration: 2000
	internal note:					
	If a product model is part of a se product family shall be reported	erver product family, all PSUs of with the information specified in	tered in a server n (e) and (f)			
F1.d	idle state power			standard or low-end pe	erforman	ce high-end performance
(3.1 (h))	(in Watts and round	<u>ed to the firs</u> t decim	al place)	configuration: 105.5		configuration: 225.3
F1.e	List of all componer	nts for additional idle	power allow	ances		
(3.1 (i))			ata di 1	lass and sector		high and markeness of
				r low-end performance		high-end performance
			configuratio			configuration:
	CPU Performance			et (10 × PerfCPU W)		1 Socket
s			🔀 2 Sock	et (7 × PerfCPU W)		2 Socket
nce	Additional PSU		No #: 1			Yes #: 1
waı rts ïng	HDD		Yes #: 2			No #: 0
power allowances adjustments during testing	SDD		No #: 0			Yes #: 10
rer ; ustr ng t	Additional memory		Yes #: 188	GB		Yes #: 1532GB
adji Iurij	Additional buffered DD	R channel	Yes #: 4			Yes #: 4
idle p	Additional I/O devices		none		T	none
id				No Allowance		<pre>1 Gb/s: No Allowance</pre>
	l		= 1 Gb/s:	2,0 W/Active Port		= 1 Gb/s: 2,0 W/Active Port

	≥ 10 Gb/s ≥ 25 Gb/s	and < 10 Gb/s: 4,0 W/Active Port and < 25Gb/s: 15,0 W/Active Port and < 50Gb/s: 20,0 W/Active Port 26,0 W/Active Port	<ul> <li>&gt; 1 Gb/s and &lt; 10 Gb/s: 4,0 W/Active Port</li> <li>≥ 10 Gb/s and &lt; 25Gb/s: 15,0 W/Active Port</li> <li>≥ 25 Gb/s and &lt; 50Gb/s: 20,0 W/Active Port</li> <li>≥ 50 Gb/s 26,0 W/Active Port</li> </ul>
F1.f (3.1 (j))	maximum power (in Watts and rounded to the first decimal place)	standard or low-end performant configuration: <b>360.3</b>	ce high-end performance configuration: 778.6
F1.g (3.1 (k))	operating condition class (as defined in Table 6 or ErP lot 9)	standard or low-end performance configuration: A1 A2 A3 A4 Exception comments	ce high-end performance configuration: A1 A2 A3 A4 Exception comments
F1.h (3.1 (l))	idle state power at the higher boundary temperature of the declared operating condition class (in Watts)	standard or low-end performant configuration: 130.8	ce high-end performance configuration: 235.1
F1.i (3.1 (m))	the active state efficiency and the performance in active state of the server;	standard or low-end performant configuration: <b>13.1</b>	ce high-end performance configuration: 32.9

## Server family specific information Family 2

Family no. / name		2 - 4 CPUs populated family						
Model number(s) / Description		Standard or low-end performance configuration:						
(3.1 (c) )		4x Intel(R) Xeon(R) Gold 5222 4C 3.8GHz CPUs						
		24x ThinkSystem 16GB 2Rx8 PC4-2666V TruDDR4 RDIMMs						
		1x ThinkSystem M.2 32GB SATA 6Gbps Non-Hot Swap SSD 2x ThinkSystem 300GB 10Krpm 12Gb SAS HDDs						
		1x ThinkSystem 1Gb 2-port RJ45 LOM						
				i 4GB Flash PCle 12Gb Adap	ter			
		2x 1100W Platin High-end perform						
				8280L 28C 2.7GHz CPUs				
		40x ThinkSystem 64GB 2Rx4 PC4-2933Y TruDDR4 RDIMMs						
		8x ThinkSystem 128GB TruDDR4 2666MHz (1.2V) Intel Optane DC Persistent Memory DCPMMs (App						
		Direct Mode) 12x Intel 960GB	SATA 2.5" SS	SDs				
		1x ThinkSystem 1Gb 2-port RJ45 LOM 1x ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter						
								1x Broadcom NetXtreme II BCM57810 Dual Port 10GbE Adapter 4x 2000W Platinum Power Supplies
		Additional information Ple		Please refer to the comments in Family 1				
Product environmental attributes (EU		butes (EU) 2019/4	019/424 – Annex II points 3.1 and 3.3					
F2.a (3.1 (e))	See family 1							
(0.1(0))	Or specific to this family:							
	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							
					Jie-output			
	10% 20%	standard or low-end performance configuration(s): 10% 20% 50% 100% Average						
	high-end performance configuration(s): 10% 20% 50% 100% Average							
F2.b	Power factor at 50 %							
(3.1 (f))		actor at 50 % of the rated load level       See family 1         vd to three decimal places)       Or specific to this family:						
				standard or low-end performa	nce high-end performance			
	configuration: configuration:							
F2.c (3.1 (g))	PSU rated power output (in Watts rounded to the nearest integer) See family 1 Or specific to this family:							
(0.1 (9))	(iii watts tounded to	the nearest integer	,	Or specific to this family:				
	internal note:	ver product family, all DSLID of	ffored in a conver	standard or low-end performa	nce high-end performance			
	product family shall be reported v	el is part of a server product family, all PSUs offered in a server nall be reported with the information specified in (e) and (f) Configuration: Configuration:						
F2.d idle state power (3.1 (h)) (in Watts and rounded to the first decimal pl.				standard or low-end performance high-end performance place) configuration: 155.8 configuration: 264.2				
F2.e								
(3.1 (i))		s for additional idle power allowances Not Applicable for 4-Soo standard or low-end performance			high-end performance			
	1		configuratio		configuration:			
	CPU Performance		1 Socke	et (10 × PerfCPU W)	1 Socket			
ŝ			2 Socket (7 × PerfCPU W)		2 Socket			
lent	Additional PSU		(Yes / No) #:		(Yes / No) #:			
listm	HDD SDD		(Yes / No) #: (Yes / No) #:		(Yes / No) #: (Yes / No) #:			
adju	Additional memory		(Yes / No) #:		(Yes / No) #:			
idle power allowances adjustments during testing	Additional buffered DDR channel		(Yes / No) #:		(Yes / No) #:			
	Additional I/O devices		none		none			
allo			< 1 Gb/s: No Allowance		< 1 Gb/s: No Allowance			
Ver			= 1 Gb/s: 2	2,0 W/Active Port	= 1 Gb/s: 2,0 W/Active Port			
Ód			> 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 a	and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port			
			≥ 25 Gb/s a	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			
F2.f	Maximum power	d to the first deal		standard or low-end performation:				
(3.1 (j)) (3.1 (k))	(3.1 (j))         (in Watts and rounded to the first de           (3.1 (k))         Operating condition class		iai piace)	configuration: 646.4	configuration: 1559.3			
	(as defined in Table 6 or ErP lot 9)			See family 1 Or specific to this family:				
		,		or opcome to une ranniny.				
				standard or low-end performa	nce high-end performance			
				configuration:	configuration:			
				A1	A1			
				—				
				A2	A2			
				A3	A2 A3			
				=	A2			

F2.h (3.1 (l))	idle state power at the higher boundary temperature of the declared operating condition class (in Watts)	See family 1 Or specific to this family:		
		standard or low-end performance configuration: <b>181.1</b>	high-end performance configuration: 274.0	
F2.i (3.1 (m))	the active state efficiency and the performance in active state of the server;	See family 1 Or specific to this family:		
		standard or low-end performance configuration: <b>14.5</b>	high-end performance configuration: <b>31.5</b>	