



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		LCI IOVO,		
	alcarter@lenovo.com				
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Additional information	nation 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 SR590			
Model number *	7X89, 7X99			
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.

Model nu	mber *	7X98, 7X99 Log	jo 📗	Lon		
Issue dat	e *	2020-01-31		Lend	JVC) _{TM}
Product	environ	mental attributes - Legal requirements		Require	mení	met
Item		• ,		Yes	No	N/A
P1	Hazardo	ous substances and preparations				
P1.1*	Products	do comply with current European RoHS Directive. (See legal reference and NOTE B1)	1	\boxtimes		
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.		\boxtimes		
P1.3*	hydrobro trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), omofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachlorid ethane, methyl bromide (see legal reference). Comment: Legal reference has no maximation values.				
P1.4*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorin d (PCT) in preparations (see legal reference).	ated	\boxtimes		
P1.5*	Products	s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon a ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	atoms in the			
P1.6*	Parts wit	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μ al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	g/cm²/week			
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail conta ww.lenovo.com/us/en/sustainability-resources	act):	\boxtimes		
P2	Batterie	s				
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the d Information on proper disposal is provided in user manual. (See legal reference)	isposal	\boxtimes		
P2.2*	Batteries reference	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium.	. (See legal	\boxtimes		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)		\square		
P2.4*	Docume	ntation includes the number of cycles the (secondary) battery can withstand. (See legal	reference)		T	
P2.5*	When in user", the	ternal batteries of a notebook computer cannot be "accessed and replaced by a nonpro e related text is present and legible on the external packaging (see legal reference)	fessional			
P3	Conforn	nity verification & Eco design (ErP)				
P3.1*		duct is CE-marked to show conformance with applicable legal requirements (see legal re laration of Conformity can be requested at: https://www.lenovo.com/us/en/compliance/e				
P3.2*		duct complies with the Eco design requirements for energy-related products, al reference).				
	Required	d information is; given in item P15 or added to this document, available at: https://www.lenovo.com/us/en/compliance/eco-c	declaration			
P5	Product	packaging	TO GIAI GETOTI			
P5.1*	Packagii	ng and packaging components do not contain more than 0,01% lead, mercury, ca ent chromium by weight of these together.	admium and	d 🔀		
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature of the legal reference).	e material(s	s) 🔀		
P5.3*	The prod	duct packaging material is free from ozone depleting substances as specified in the Montr al reference). nt: Legal reference has no maximum concentration values.	real Protoco	ol 🖂		
P6	Treatme	nt information				
D0 4*					$\overline{}$	\neg

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.

Information for recyclers/treatment facilities is available (see legal reference).

P6.1*

Model number *	7X98, 7X99	Logo	Lanava
Issue date *	2020-01-31		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.			_ <u>Ц</u> _
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.	\boxtimes		
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes		
D7 74	Product lifetime			
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			
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): Material type: Metal Material type: Plastic Material type:			
P7.12	Material type: Metal Material type: Plastic Material type: Insulation materials of external electrical cables are PVC free.	$\overline{}$		
P7.13	Insulation materials of internal electrical cables are PVC free.	-	\blacksquare	+
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 ⁵ NOTE B2) Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:			
F1.10	Marking:			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 riote bo).			ш
	If YES; at least one of the two alternatives below shall be answered;			
	 a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is %. 			
	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 http://www.ecma-international.org/publications/standards/Ecma-370.htm.

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

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

Model number *	7X98, 7X99	Logo	Lonovo
Issue date *	2020-01-31		Lei IOVO.

Product environmental attributes - Market requirements (continued)		Requirement me		
Item	Yes	No	N/A	

D7 04*		bstance requirements	, ,	TE D7).				
P7.21*	Biodased plastic	material content is used	in the product (See NC	TEB7):		Ш	\boxtimes	
		ne of the two alternative			(l			
		stic parts' weight > 25 g, by weight) is %.	the biobased plastic ma	ateriai content (caicula	ted as a percentage of			
	or	by weight, io 70.						
		of the biobased plastic n						
P7.22*		e free from mercury, i.e.			. 1	\boxtimes		
P7.23*		d specify: Number of lan es an integral display, the		im mercury content pe		$\overline{}$	$\overline{}$	
P8	Batteries	es an integral display, the	e total mercury content	in the integrated displa	ay. IIIg		<u> Ш</u>	
P8.1*	Batteries Battery chemical composition: <i>Lithium Manganese Dioxide</i>							
P9	Energy consumption (See NOTE B8)							
P9.1		he following power level	s or energy consumptio	ns are reported:				
Energy mo		Power level at	Power level at	Power level at	Reference/Standard	for en	ergy	X
0,		100 V AC	115 V AC	230 V AC	modes and test metho			
Peak (On-	max)	W	W	W	Full load			
Categor	V							
EPS No-loa		W	W	W				
	ower supply /	**		**				
	igged in the wall							
	outlet but disconnected from							
the product.)			147					
PTEC *	ergy Consumption	W	W	W				\boxtimes
ETEC *	cigy consumption	kWh/year	kWh/year	kWh/year				\square
	ergy Consumption	, and the second	,	•				
External Po	ower Supply Efficie	ency Level (International	Efficiency Marking Pro	tocol) * :				\boxtimes
Display res	solution * :	megapixels						X
Default time	e to enter energy:	save mode: minut	tes					
P9.2*	Information abou	it the energy save function	on is provided with the p	product.		X	\Box	Ħ
P9.3	Energy efficiency	class (monitors only):						X
P10	Emissions							
	Noise emission	- Declared according to	ISO 9296 (See NOTE	B9)				
P10.1	Mode	Mode description			t A-weighted sound pow	er level,	, Lwa,c	(B)
	Idle	* Indicates idle condit		* 5.9				
		powered on, but no di other devices idling)	sk activity and all					
	Operation	* Indicates CPU and m	nemory operating	* 5.8				
		condition(run PTU wit						
		CPU and memory sub	system					
	Other mode $\frac{1}{2}$ Declared A-weighted sound pressure level (dB) L_{pAm} (operator position desktop – idle)							
	Other mode	Declared A-weighted sound	d pressure level (dB) $L_{p{\sf Am}}$	(operator po	sition desktop – operating)		
	Measured accord	ding to: XISO 7779	ECMA-74	1			-	-
		Other	(only if not covered by	ECMA-74)				
	Electromagneti	c emissions		,				
P10.4		y meets the requirement	for low frequency elect	romagnetic fields of th	ne following voluntary			
	program(s):							

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

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

NOTE B9 A Guidance document on Acoustic Noise is available;

Model number *		7X98, 7X99				Logo			
Issue date	*	2020-01-31					Leno	VO.	н
Product	environn	nental attributes	- Market requirements	s (continued)			Require	ment	met
Item				•			Yes	No	N/A
P12		mics for computing	•						
P12.1*	The disp	lay meets the ergono	omic requirements of ISO	9241-307 for visual displa	ay technolo	gies.			\boxtimes
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.								
P13		ing and documentat							
P13.1*	Product Product Product	packaging material to packaging material to packaging material to	ype(s): Paper - Corrugat ype(s): Plastic - Solid EF ype(s): Plastic - HDPE (h	ed Double wall weight (led single wall weight (led single wall weight (led solid Expanded poly eigh density polyethylen	kg): 1.02 ethylene)	weight (kg): 1.3 weight (kg): 0.07			
P13.2*	Product plastic primary packaging is free from PVC.					\boxtimes			
P13.3*		duct primary corruga er recovered fiber co		g, specify the contained	percentage	of minimum pos	it-		
P13.4*			roduct documentation (tic	k box):					
		ronic, 🔀 Paper, 🔲 🤇	Other						
P13.5	Ùser and		em if paper documentatior tion on paper media is ch						
	•	hlorine-free al chlorine-free							
	Processe	ed chlorine-free							
P14	Volunta	ry programs							
P14.1	The prod	duct meets the requir	rements of the following vo	oluntary program(s):					
DAS	Eco-labe Eco-labe	el:	Criteria version: Criteria version: Criteria version:	Date: Date: Date:	Product	category: category: category:			
P15	Addition	nal information (See	NOTE B10)						

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

NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such

information. The information provided here is approximate and provided for informational purposes only. See a Lenovo

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.

Additional information (See NOTE B10)

Account Representative for more information.

See Energy Star Qualified Enterprise Servers for the latest information:

https://www.energystar.gov/products/data center equipment/enterprise servers

P9

P9

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	int∩r	mation
Ochelai	HILLO	manon

Commercial name (3.1 (b))	Lenovo ThinkSystem SR550	Logo	
Contact Address (3.1 (b))	7001 Development Dr. Building 7		
	Morrisville, NC 27560		
	United States		Lenovo
Model Number (3.1 (c))	7X98, 7X99		
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_SR590								
1.e (3.1 (n))	Information on the secure data deletion functionality								
(= (//	(a) instructions on how to use the functionality:								
	2 methods are provided to use the functionality.								
	 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: 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? No Yes								
. , ,,,	list of recommended combinations with compatible chassis:								
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								
(* * (* //	i loca train a g								
	between 5 g and 25 g								
2.b	■ above 25 g ■ above 25 g ■ above 25 g ■ Instructions on the disassembly operations								
(3.3 (b))	(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.lenovofiles.com/help/topic/7X98/SR590_maintenance_manual.pdf								
2.c	Firmware								
	Reference to information on last available firmware:								
A .1.1141	https://datacentersupport.lenovo.com/cn/en/products/servers/thinksystem/sr590/7x98/downloads/driver-list/								
Additiona	ll information								

Server family specific information Family 1

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 Xeon Silver 4109T, Storage:									
		1TB HDD * 2, Memory: 16GB(lowest capacity in family) * 4, PSU: 550W * 1									
		High-end performance configuration: Processor: Intel Xeon Gold 6252, Storage: 1.92TB SSD * 2, Memory: 32GB * 8, PSU: 750W * 2									
		You can refer to									
Addition	nal information	https://www.plugloadsolutions.com/80PlusPowerSuppliesDetail.aspx?id=49&type=1 along with									
		http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR590 for the PSU efficiency details.									
	t environmental attril										
	F1.a PSU efficiency at 10 % (if applicable), 20 %, 50 % and 100 % of rated output power										
(3.1 (e))	(expressed in % and rounded to the first decimal place): Multi-output Single-output										
	Standard or low-end performance configuration(s): 10% 91.6 20% 93.8 50% 95.1 100% 94.0 Average 94.3										
High-end performance configuration(s): 10% 91.4 20% 93.3 50% 94.8 100% 93.3 Average 93.8											
F1.b	Power factor at 50 %	of the rated load level	of the rated load level standard or low-end performance high-end performance								
(3.1 (f))	(rounded to three de			configuration: 0.990	configurat						
F1.c (3.1 (g))	PSU rated power out (in Watts rounded to			standard or low-end performar configuration: 550	ce high-end p configurat	performance ion: 750					
	internal note: If a product model is part of a server product family, all PSUs offered in a server product family shall be reported with the information specified in (e) and (f)										
F1.d (3.1 (h))	d idle state power standard or low-end performance high-end performance										
F1.e	\	ts for additional idle po		<u> </u>							
(3.1 (i))		<u> </u>									
				low-end performance	high-end perform	nance					
	CPU Performance		onfiguratio		configuration:						
			_	et (10 × PerfCPU W)	1 Socket						
ø			2 Socket (7 × PerfCPU W)		2 Socket						
power allowances adjustments during testing			lo #: 0		Yes #: 1						
stm	HDD		Yes#: 2		No #: 0						
dju	SDD		No #: 0		Yes #: 2						
ss a ting	Additional memory Additional buffered DDF		Yes #: 60GB No #: 0		Yes #: 252GB No #: 0						
nce	Additional I/O devices	k channel N			_						
wa ing	Additional I/O devices		none		none						
allo			=	No Allowance	< 1 Gb/s: No Allo						
ver			= 1 Gb/s: 2	2,0 W/Active Port	= 1 Gb/s: 2,0 W/A	Active Port					
od		L	> 1 Gb/s a	nd < 10 Gb/s: 4,0 W/Active Port	> 1 Gb/s and < 10	0 Gb/s: 4,0 W/Active Port					
idle			≥ 10 Gb/s a	and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 2	25Gb/s: 15,0 W/Active Port					
		Ī	≥ 25 Gb/s	and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 5	50Gb/s: 20.0 W/Active Port					
		١Ē	≥ 50 Gb/s	26,0 W/Active Port	≥ 50 Gb/s 26,0 W	//Active Port					
F1.f	maximum power			standard or low-end performar		performance					
(3.1 (i)) (in Watts and rounded to the first decimal place) configuration: 122.9 configuration: 270.7											
F1.g	operating condition c		,	standard or low-end performar	ce high-end p	performance					
(3.1 (k))	(as defined in Table	(as defined in Table 6 or ErP lot 9)		configuration: config							
				A1	⊠ A1 □	A2 A3 A4					
				Exception comments	Exception	comments					
F1.h (3.1 (l))				standard or low-end performar configuration: 134.2	ce high-end p	performance					
F1.i	1 0 1			standard or low-end performance high-end performance							
(3.1 (m))				configuration: 19.2	configurat						

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 * 2, Storage:									
, ,		1TB HDD * 2, Memory: 16GB(lowest capacity in family) * 8, PSU: 550W * 1									
		High-end performance configuration:									
					* 2, Memory: 32GB * 16, PSU: 750W * 2						
Addition	nal information	Please refer to the	e comments	s in Family 1							
Product environmental attributes (EU) 2019/424 – Annex II points 3.1 and 3.3											
F2.a	See family 1										
(3.1 (e))	Or specific to this fan	nilv:									
			0 %, 50 % an	d 100 % of rated output power							
	(expressed in % and rounded to the first decimal place): Multi-output Single-output										
	standard or low-end			ong.	o output						
	10% 20%	50%	100%	Average							
				2 2 3 2							
	high-end performanc	e configuration(s):									
	10% 20%	50%	100%	Average							
F2.b	Power factor at 50 %		vel	See family 1							
(3.1 (f))	(rounded to three ded	cimal places)		Or specific to this family:							
				standard or low-end performar	nce 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: If a product model is part of a sen	ver product family, all PSUs off	ered in a server	standard or low-end performar							
	If a product model is part of a sen product family shall be reported w	ith the information specified in	(e) and (f)	configuration:	configuration:						
F2.d	idle state power			standard or low-end performar							
(3.1 (h))	(in Watts and rounde			configuration: 74.7	configuration: 93.1						
F2.e	List of all component	s for additional idle									
(3.1 (i))				low-end performance	high-end performance						
	CPU Performance		configuratio		configuration:						
	CPU Periormance			et (10 × PerfCPU W)	1 Socket						
	2			et (7 × PerfCPU W)	2 Socket						
ent	Additional PSU No #: 0				Yes #: 1						
tm:	HDD Yes #: 2			No #: 0							
idle power allowances adjustments during testing			No #: 0		Yes #: 2						
s ac ing	,		Yes #: 124GB		Yes #: 508GB						
est	Additional buffered DDR channel		No #: 0		No #: 0						
war ng t	Additional I/O devices		none		none						
allo			< 1 Gb/s: No Allowance		< 1 Gb/s: No Allowance						
er e			= 1 Gb/s: 2,0 W/Active Port > 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port		= 1 Gb/s: 2,0 W/Active Port						
NOC					> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port						
<u>e</u>			≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port		≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port						
.0				·							
			\blacksquare	and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 50Gb/s: 20,0 W/Active Port						
F0.6			≥ 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 desima	al place)	standard or low-end performar configuration: 176.6	nce high-end performance configuration: 496.7						
(3.1 (k))	Operating condition of		ii piace)	See family 1	coringulation. 450.7						
, ,	(as defined in Table 6			Or specific to this family:							
	(11111111111111111111111111111111111111	,		standard or low-end performance high-end performance							
				configuration: configuration:							
				A1	A1						
				A2	A2						
				A3	A3						
				A4	A4						
				Exception comments	Exception comments						
E2 h	idle state names =1 11-	o bigbor bounds::::	omnorative-								
F2.h (3.1 (l))	idle state power at the higher boundary temperature			See family 1							
of the declared operating condition class (in Watts)			,	Or specific to this family:	noo high and norformana-						
	(iii vvallo)			standard or low-end performar configuration: 149.8	nce high-end performance configuration: 169.2						
F2.i	the active state efficiency and the performance in			Comiguration. 103.2							
F2.i the active state efficiency and the performance in (3.1 (m)) active state of the server;				See family 1 Or specific to this family:							
,		- 1		standard or low-end performar	nce high-end performance						
				configuration: 14.1	configuration: 37.5						