



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		LEITOVO	
	alcarter@lenovo.com			
Internet site *	https://www.lenovo.com/us/en/about/sustainability			
Additional information	Iditional 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 SR950				
Model number *	7X11, 7X12, 7X13				
Issue date *	Feb. 12, 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 nu	mber *	7X11, 7X12, 7X13	Logo	Lon		
Issue dat	e *	Feb. 12, 2020		Lend) _{TM}
Product	environ	mental attributes - Legal requirements		Require	ment	met
Item				Yes	No	N/A
P1		us substances and preparations				
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)					
P1.2*	Commer	do not contain Asbestos (see legal reference). tt: Legal reference has no maximum concentration value.				
P1.3*		do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),		\boxtimes		
		mofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbonte				
	concentr	ethane, methyl bromide (see legal reference). Comment: Legal reference has ation values.				
P1.4*		։ do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% բ l (PCT) in preparations (see legal reference).	oolychlorinated			
P1.5*	Products	do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-1	3 carbon atoms in the	ne 🔀		
		ntaining at least 48% per mass of chlorine in the SCCP (see legal reference)		<u> </u>		
P1.6*		h direct and prolonged skin contact do not release nickel in concentrations at al reference).	ove 0,5 μg/cm²/wee	ek 🔀		
		nt: Max limit in legal reference when tested according to EN1811:2011-5.				
P1.7*		Article 33 information about substances in articles is available at (add URL or	mail contact):	\boxtimes		
	https://w	ww.lenovo.com/us/en/sustainability-resources				
P2	Batterie					
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled Information on proper disposal is provided in user manual. (See legal referen				
P2.2*	Batteries reference	or accumulators do not contain more than 0,0005% of mercury or 0,002% of	cadmium. (See lega	al 🔀		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)		\boxtimes		
P2.4*	Docume	ntation includes the number of cycles the (secondary) battery can withstand.	(See legal reference	:)		\boxtimes
P2.5*	user", the	ternal batteries of a notebook computer cannot be "accessed and replaced by e related text is present and legible on the external packaging (see legal refer				
P3		nity verification & Eco design (ErP)				
P3.1*		luct is CE-marked to show conformance with applicable legal requirements (slaration of Conformity can be requested at: https://www.lenovo.com/us/en/cor				
P3.2*		luct complies with the Eco design requirements for energy-related products, al reference).		\boxtimes		
	, ,	d information is; given in item P15 or added to this document,				
	•	available at: https://www.lenovo.com/us/en/complia	ance/eco-declaration			

Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and

The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s)

The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol

P5

P5.1*

P5.2*

P5.3*

P6

P6.1*

Product packaging

(see legal reference).

Treatment information

used (see legal reference).

hexavalent chromium by weight of these together.

Comment: Legal reference has no maximum concentration values.

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 *	7X11, 7X12, 7X13	Logo	Lanova
Issue date *	Feb. 12, 2020		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 7*	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			
	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%	\dashv		
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		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 10	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
	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 50%.			
	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 *	7X11, 7X12, 7X13	Logo	Lonovo
Issue date *	Feb. 12, 2020		Lei Iovo

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

	Material and substance requirements (continued)							
P7.21*	Biobased plastic	material content is used	in the product (See NO	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 g.							
D7.00*								
P7.22*		free from mercury, i.e. d specify: Number of lan		ım mercury content pe	r lamp: mg			Ш
P7.23*	If product includes an integral display, the total mercury content in the integrated display: mg							
P8	Batteries							
P8.1*	Battery chemical composition: Lithium Manganese Dioxide							
P9		ption (See NOTE B8)						
P9.1		ne following power level	s or energy consumptio	ns are reported:				
Energy mo		Power level at	Power level at	Power level at	Reference/Standard	for er	nergy	\boxtimes
		100 V AC	115 V AC	230 V AC	modes and test meth	od *		
Peak (On-I	max)	W	W	W	Full load			
Categor	y							
EPS No-loa	ad	W	W	W				
	ower supply /							
	igged in the wall							
	lisconnected from							
the product	ι.)	W	W	W				
_	ergy Consumption	V V	VV	VV				\boxtimes
ETEC *	orgy concumption	kWh/year	kWh/year	kWh/year				\square
Annual Ene	ergy Consumption			•				
External Po	ower Supply Efficie	ncy Level (International	Efficiency Marking Pro	tocol) * :				\boxtimes
Display res	solution * : r	negapixels						\boxtimes
Default time	e to enter energy s	ave mode: minut	tes					
P9.2*	Information abou	t the energy save function	on is provided with the	oroduct.	•	\boxtimes		
P9.3	Energy efficiency	class (monitors only):						
P10	Emissions							
		 Declared according to 	ISO 9296 (See NOTE	B9)				
P10.1		Mode description			t A-weighted sound pov	ver leve	I, L _{WA,c}	(B)
Idle * HDD Idle			* 5.79					
Operation * HDD Operating		* 5.77						
Other mode ${\it Declared\ A-weighted\ sound\ pressure\ level\ (dB)\ }L_{p{ m Am}}$		57.9 (operator position desktop – idle)						
	Other mode Declared A-weighted sound pressure level (dB) L _{pAm} 57.7 (operator position desktop – operating)							
	Measured accord	ling to: 🔀 ISO 7779 🗌	ECMA-74	•				
		Other	(only if not covered by	ECMA-74)				
	Electromagnetic		(
P10.4		meets the requirement	for low frequency elect	tromagnetic fields of th	e following voluntary			
	program(s):		. ,	-				

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;

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

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

Model num	nber *	7X11, 7X12, 7X13 Logo	Land		
Issue date	*	Feb. 12, 2020	Lend	VO	тм
Product e	nvironn	mental attributes - Market requirements (continued)	Require	ment	met
Item			Yes	No	N/A
P12		mics for computing products			
P12.1*	The disp	play meets the ergonomic requirements of ISO 9241-307 for visual display technologies.			
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410.			\boxtimes
P13	Packagi	ing and documentation			
P13.1*	Product	packaging material type(s): Corrugated weight (kg): 3.5 packaging material type(s): Wood weight (kg): 9 packaging material type(s): HDPE Foam packaging material type(s): HDPE Bag weight (kg): 0.001			
P13.2*		plastic primary packaging is free from PVC.			
P13.3*		duct primary corrugated fiberboard packaging, specify the contained percentage of minimular recovered fiber content: 35%	m post-		
P13.4*		media for user and product documentation (tick box): ronic, ⊠Paper, □Other			
P13.5	Ùser and	only complete this item if paper documentation used) d product documentation on paper media is chlorine-free: lease specify:			
	•	hlorine-free al chlorine-free			
	Processe	ed chlorine-free			
P14	Volunta	ry programs			
P14.1	The prod	duct meets the requirements of the following voluntary program(s):			

Date:

Date:

Date:

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

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.

ENERGY STAR®

Additional information (See NOTE B10)

Account Representative for more information.

Eco-label:

Eco-label:

P15

P9

P9

Criteria version:

Criteria version:

Criteria version:

See Energy Star Qualified Enterprise Servers for the latest information:

https://www.energystar.gov/products/data_center_equipment/enterprise_servers

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

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

\sim			••
General	int	orma	tınn

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		LEI IOVO"
Issue Date	Feb. 12, 2020		
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))	I ower 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								
1.d (3.1 (p))	Product model part of a server product family?								
(3.1 (μ))	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))									
	(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	Indicative weight range at component level, of the (a) Cobalt in the batteries (b) Neodymium in the HDDs								
(3.3 (a))	following critical raw materials: (a) Cobait in the batteries (b) Neodymian in the FIDDs [a) Less than 5 g [b) Less than 5 g								
	between 5 g and 25 g								
	above 25 g								
2.b	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;								
	(b) the tool(s) required.								
2.0	OR - Reference to other information: https://thinksystem.lenovofiles.com/help/topic/7X12/SR950_maintenance_manual.pdf Firmware								
2.c	Reference to information on last available firmware:								
	https://datacentersupport.lenovo.com/cn/en/products/servers/thinksystem/sr950/7x12/downloads/driver-list/								
Additiona	ll information								
•									

Server family specific information Family 1

Family r	no. / name	1 - 2 CPU populated family					
Model n	number(s) / Description	Standard or low-end performance configuration:					
(3.1 (c))		2x Intel(R) Xeon(R) Platinum 8256 4C 3.8GHz CPUs, 12x 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					
		1x ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter, 2x 1100W Platinum Power Supplies					
		High-end performance configuration:					
		2x Intel(R) Xeon(R) Platinum 8280L 28C 2.7GHz CPUs, 24x ThinkSystem 64GB 2Rx4 PC4-2933Y					
		TruDDR4 RDIMMs, 1x ThinkSystem M.2 32GB SATA 6Gbps Non-Hot Swap SSD 10x ThinkSystem Intel S4600 Series 960GB 6Gb/s 2.5" SATA SSDs, 1x ThinkSystem 1Gb 2-port					
				RAID 930-16i 4GB Flash PCle			
			•		x ConnectX-4 Lx 1x40GbE QSFP+		
		Adapter, 2x 2000W					
		You can refer to					
Addition	nal information	https://www.pluglo	oadsolution	ns.com/80PlusPowerSupplies	Detail.aspx?id=49&type=1 along with		
		http://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SR950 for the PSU efficiency details.					
Produc	t environmental attri	butes (EU) 2019/42	4 – Annex II	points 3.1 and 3.3			
F1.a	PSU efficiency at 10	% (if applicable), 20	%, 50 % an	d 100 % of rated output power			
(3.1 (e))	(expressed in % and	rounded to the first of	decimal plac	ce): Multi-output X Single	e-output		
			·	,	·		
	Standard or low-end	performance configu	ration(s):				
	700-014189-1500 (A						
			00% 94.7	Average 94.5			
	FSF056 (AcBel 110		000/ 00 0				
			00% 93.3	Average 94.1			
	High-end performand						
	700-014265-1500 (A 10% 92.5 20%	•	00% 03 3	Average 94.4			
	700-014265-9000 (A		00 /0 93.3	Average 34.4			
			00% 93.1	Average 94.3			
	DPS-2000HB A (Del		00,000	o.ago one			
			00% 92.6	Average 93.5			
	Other optional config						
	700-014190-1500 (A	rtesyn 1600W)					
			00% 93.9	Average 94.5			
	DPS-1600AB-11 X (,					
	10% 92.6 20%	94.8 50% 95.2 1	00% 93.5	Average 94.5			
E4 b	Dama fasta at 50.0/	-£4b	±1	-tdddf	high and markenson		
F1.b (3.1 (f))		of the rated load lev	eı	standard or low-end performar	• .		
(3.1 (1))	(rounded to three de	cimai piaces)		configuration: 1.000(all suppo	rted configuration: 1.000 (all supported PSUs)		
F1.c	PSU rated power out	tput		standard or low-end performar	,		
(3.1 (g))	(in Watts rounded to	•		configuration: 1100	configuration: 2000		
	internal note:	σ ,		configuration. 7700			
	product family shall be reported v	ver product family, all PSUs offere with the information specified in (e	ed in a server) and (f)				
F1.d	idle state power			standard or low-end performar	nce high-end performance		
(3.1 (h))	(in Watts and rounde	ed to the first decimal	place)	configuration: 105.5	configuration: 225.3		
F1.e	List of all componen	ts for additional idle p	ower allowa	ances			
(3.1 (i))		Г	standard or	low-end performance	high-end performance		
			configuratio		configuration:		
	CPU Performance			et (10 × PerfCPU W)	1 Socket		
တ္				,			
ee _			2 Socket (7 × PerfCPU W)				
wan nts ting	Additional PSU No #: 1				Yes #: 1		
allo me	HDD		Yes #: 2		No #: 0		
ler a	SDD		No #: 0	20	Yes #: 10		
idle power allowances adjustments during testing	Additional memory		Yes #: 1880	3B	Yes #: 1532GB		
<u>e</u>	Additional buffered DDR channel Yes #: 4 Additional I/O devices			Yes #: 4			
.º	Additional I/O devices		none		none		
L			_	- trade de de de	List of the second		
F1.f	maximum power		-1)	standard or low-end performar			
(in Watts and rounded to the first decimal place)			piace)	configuration: 360.3	configuration: 778.6 nce high-end performance		
F1.g (3.1 (k))	operating condition class (as defined in Table 6 or ErP lot 9)		standard or low-end performar				
(3.1 (K))				configuration: configuration:			
				□ A1 □ A2 □ A3 □ A4 □ A1 □ A2 □ A3 □ A4			
				Exception comments Exception comments			
E1 h idlo state power at the higher houndary temperature, standard or law and performance. High and newforman							
F1.h idle state power at the higher boundary temperature of the declared operating condition class (in Watts)				standard or low-end performar configuration: 130.8	nce high-end performance configuration: 235.1		
F1.i	the action of th			standard or low-end performar	ŭ		
	F1.i the active state efficiency and the performance in (3.1 (m)) active state of the server:			configuration: 13.1	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					
		1x ThinkSystem RAID 930-16i 4GB Flash PCle 12Gb Adapter, 2x 1100W Platinum Power Supplies High-end performance configuration:					
		4x Intel(R) Xeon(R) Platinum 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 DCPMM	s (App Direc	ct Mode) , 12x Intel 960GB SA	ATA 2.5" SSDs		
					AID 930-16i 4GB Flash PCIe 12Gb Adapter		
A -1 -1 141					lapter, 4x 2000W Platinum Power Supplies		
	nal information	Please refer to th					
F2.a	t environmental attrib	Jules (EU) 2019/4	24 – Alliex I	i politis 3. i and 3.3			
(3.1 (e))	See family 1 Or specific to this fan	milu.					
			0 % 50 % an	nd 100 % of rated output power			
					le-output		
	standard or low-end			oc). E Maiti-output E omg	ic-output		
	10% 20%	50%	100%	Average			
	high-end performanc	0 ()		•			
	10% 20%	50%	100%	Average			
F2.b (3.1 (f))	Power factor at 50 % (rounded to three dec		evel	See family 1			
(3.1 (1))	(rounded to three dec	cimai piaces)		Or specific to this family:	and the second of the second o		
				standard or low-end performation:	nce high-end performance configuration:		
F2.c	PSU rated power out	tnut		See family 1	comiguration.		
(3.1 (g))	(in Watts rounded to)	Or specific to this family:			
	internal note: If a product model is part of a ser	ver product family all PSUs off	, fered in a server	standard or low-end performal	nce high-end performance		
	product family shall be reported w	vith 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: 155.8	configuration: 264.2		
F2.e (3.1 (i))	List of all component	is for additional idle		ances Not Applicable for 4-Sock			
(3.1 (1))			configuration	r low-end performance	high-end performance configuration:		
	CPU Performance			et (10 × PerfCPU W)	1 Socket		
			2 Socket (7 × PerfCPU W)		2 Socket		
ıts	Additional PSU		(Yes / No) #:		(Yes / No) #:		
mer	HDD		(Yes / No) #:		(Yes / No) #:		
just	SDD		(Yes / No) #:		(Yes / No) #:		
s ad	Additional memory		(Yes / No) #:		(Yes / No) #:		
allowances adjustments during testing	Additional buffered DDR channel		(Yes / No) #:		(Yes / No) #:		
war ng t	Additional I/O devices		none		none		
allo			< 1 Gb/s: No Allowance		< 1 Gb/s: No Allowance		
e.			= 1 Gb/s:	2,0 W/Active Port	= 1 Gb/s: 2,0 W/Active Port		
idle pow			> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port		> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port		
d e			≥ 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		
F2.f	Maximum power			standard or low-end performal	nce high-end performance		
(3.1 (j))	(in Watts and rounde		al place)	configuration: 646.4	configuration: 1559.3		
(3.1 (k))	Operating condition of	class		See family 1			
	(as defined in Table (o or ErP lot 9)		Or specific to this family:			
				standard or low-end performation:	nce high-end performance configuration:		
					A1		
				☐ A1			
				A2	A2		
				☐ A3	A3		
				A4	A4		
				Exception comments	Exception comments		
F2.h	idle state power at the higher boundary temperature			See family 1			
•		rating condition class		Or specific to this family:			
	(in Watts)	-		standard or low-end performal	nce high-end performance		
				configuration: 181.1	configuration: 274.0		
F2.i	the active state efficient		mance in	See family 1			
(3.1 (m))	active state of the se	rver;		Or specific to this family:			
				standard or low-end performan			
				configuration: 14.5	configuration: 31.5		