



## 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	LEITOV			
	alcarter@lenovo.com				
Internet site *	https://www.lenovo.com/us/en/about/sustainability				
Additional information	n 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 statemen	conforms to the statements given in this declaration.				
Type of product *	Type of product * SERVER				
Commercial name *	Lenovo ThinkSystem SN850				
Model number *	7X15				
Issue date *	Jan 31, 2020				
Intended market * Global					
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 *	Error! Reference source not found.	Logo	Long		
Issue date *		Jan 31, 2020		Lend	JVC	) <sub>TM</sub>
Product	environ	mental attributes - Legal requirements		Require	ment	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)	$\boxtimes$		
P1.2*		s do not contain Asbestos (see legal reference). nt: 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*		s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carb ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in th	ne 🔀		
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above 0 al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	,5 μg/cm²/wee	k		
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail oww.lenovo.com/us/en/sustainability-resources	contact):			
P2	Batterie	S				
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with t Information on proper disposal is provided in user manual. (See legal reference)	he disposal			
P2.2*	Batteries reference	or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	ium. (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 le	egal reference	)		$\boxtimes$
P2.5*	user", the	ternal batteries of a notebook computer cannot be "accessed and replaced by a nor e related text is present and legible on the external packaging (see legal reference)	professional			
P3	Conforn	nity verification & Eco design (ErP)				

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>

given in item P15 or added to this document,

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

available at: https://www.lenovo.com/us/en/compliance/eco-declaration

The product complies with the Eco design requirements for energy-related products,

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.

P3.1\*

P3.2\*

P5

P5.1\*

P5.2\*

P5.3\*

P6

P6.1\*

(see legal reference). Required information is;

Product packaging

used (see legal reference)

(see legal reference).

Treatment information

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).

Model number *	Error! Reference source not found.	Logo	Lanava
Issue date *	Error! Reference source not found.		LEI IOVO,

Product	environmental attributes - Market requirements (See General NOTE GN below)			
	- Environmental conscious design	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			
P7.2*	Plastic materials in covers/housing have no surface coating.	$\boxtimes$		
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	$\boxtimes$		
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	$\boxtimes$		
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).	$\boxtimes$		
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			
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			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):  Material type: PC+ABS Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.		X	
P7.13	Insulation materials of internal electrical cables are PVC free.		X	
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%			
	weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, an			_
	polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containin more than 25% post-consumer recycled content.	g		
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low haloge	n 🔀		
	as defined in IEC 61249-2-21. (See <sup>5</sup> NOTE B2)			
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking:			
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components):			
	TBBPA (additive), TBBPA (reactive) \( \subseteq \text{(See NOTE B3)}, Other: chemical name: \( \begin{array}{c} Carbonic \\ Carbonic \end{array} \)	$\boxtimes$		
	dichloride, polymer with 4,4'-(1-methylethylidene)bis[2,6-dibromophenol] and 4,4'-(1-methylethylidene)bis[phenol], CAS #: 32844-27-2			
				$\boxtimes$
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g			
P7.18	according ISO 1043-4: <u>Alt. 1:</u> Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations i	n		
1 7.10	concentrations above 0.1%:	" П		
	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:			
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been		$\boxtimes$	
	assigned the following Risk phrases; and Hazard statements:			
D7.66*	The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):		$\boxtimes$	
	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			
I	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 *	Error! Reference source not found.	Logo	Lonovo
Issue date *	Error! Reference source not found.		Lei IOVO.

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

	Material and sub	stance requirements	(continued)					
P7.21*		material content is used	·	OTF B7):				
1 7.21				•		ш		ш
	,	ne of the two alternative		,	tad as a paraentage of			
		tic parts' weight > 25 g, by weight) is %.	the biobased plastic ma	ateriai content (calcula	teu as a percentage of			
	or	oyo.g, .o , ,						
		of the biobased plastic n						
P7.22*		free from mercury, i.e.				$\boxtimes$		$\boxtimes$
	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							
P7.23*		s an integral display, the	e total mercury content	in the integrated displa	ay: mg			$\boxtimes$
P8	Batteries							
P8.1*		composition: Lithium N	langanese Dioxide					
P9		ption (See NOTE B8)						
P9.1		ne following power level			To 6 (6)			
Energy mo	de *	Power level at	Power level at	Power level at	Reference/Standard		ergy	$\boxtimes$
Peak (On-	movi	100 V AC W	115 V AC W	230 V AC 1340 W	modes and test meth	<u> </u>		
Peak (OII-	IIIax)	VV	VV	1340 VV	ruii ioau			
Categor	y							
EPS No-loa		W	W	W				
	ower supply /							
	igged in the wall							
the product	lisconnected from							
PTEC *	ι.)	W	W	W				$\square$
_	ergy Consumption	**	**	**				
ETEC *	- <u>5</u> ,	kWh/year	kWh/year	kWh/year				$\boxtimes$
	ergy Consumption		·	•				
External Po	ower Supply Efficie	ncy Level (International	Efficiency Marking Pro	tocol) * :				$\boxtimes$
Display res	solution * : r	negapixels						$\boxtimes$
Default tim	e to enter energy s	ave mode: minut	es					
P9.2*		the energy save function	on is provided with the	oroduct.	1	$\square$		Ħ
P9.3		class (monitors only):					<u> </u>	
P10	Emissions	older (memere emy).						
FIU		<ul> <li>Declared according to</li> </ul>	ISO 9296 (See NOTE	B9)				
P10.1		Mode description	(000000		t A-weighted sound pov	ver level	, L <sub>WA.c</sub>	(B)
	Idle	* no any stress		* 7.1bel				
	Operation	* stress CPU to 50% T	'DP	* 7.5bel				Ħ
				53 5dB (operator p	osition deskton – idle)			
	$E_{pAm}$							
	Other mode Declared A-weighted sound pressure level (dB) $L_{pAm}$ 56.3dB (operator position desktop – operating)							
	Measured according to: ☐ ISO 7779 ☐ ECMA-74							
		Other	(only if not covered by	ECMA-74)				
	Electromagnetic	emissions		•				
P10.4		meets the requirement	for low frequency elec	tromagnetic fields of th	ne following voluntary			
	program(s):					_		

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

NOTE B9 A Guidance document on Acoustic Noise is available; see <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

Model number *	Error! Reference source not found.	Logo	Lonovo
Issue date *	Error! Reference source not found.		LEI IOVO.

Product 6	environmental attributes - Market requirements (continued)	Require	ment	met
Item		Yes	No	N/A
P12	Ergonomics for computing products			
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	$\boxtimes$		
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	$\boxtimes$		
P13	Packaging and documentation			
P13.1*	Product packaging material type(s): Corrugated cardboard weight (kg): 1.51 Product packaging material type(s): Cardboard weight (kg): 0.19 Product packaging material type(s): Recycled Expanded Polyethylene weight (kg): 0.35	<b>5</b> -2		
P13.2*	Product plastic primary packaging is free from PVC.			
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: $55$ %			
P13.4*	Specify media for user and product documentation (tick box):  ☐ Electronic, ☐ Paper, ☐ Other			
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify:			
	Totally chlorine-free Elemental chlorine-free			
	Processed chlorine-free			
P14	Voluntary programs			
P14.1	The product meets the requirements of the following voluntary program(s):			
	ENERGY STAR® Criteria version: Date: Product category: Eco-label: Date: Product category:			
P15	Additional information (See NOTE B10)			
P9	Energy consumption of computer products; description of the tested product configuration:			
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or in the information contained in this document. All information provided by supplier in this document is pusupplier's knowledge available at the time of completion, and supplier shall have no obligation to update information. The information provided here is approximate and provided for informational purposes on Account Representative for more information.	ovided te such	based	on
P9	See Energy Star Qualified Enterprise Servers for the latest information: <a href="https://www.energystar.gov/products/data">https://www.energystar.gov/products/data</a> center equipment/enterprise servers			

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**

$\sim$		4.
General	ınt∩rn	nation

Commercial name (3.1 (b))	Error! Reference source not found.	Logo	
Contact Address (3.1 (b) )	7001 Development Dr. Building 7, Morrisville, NC 27560, United		
	States		Lonovo
Model Number (3.1 (c))	7X15		Lenovo
Issue Date	Error! Reference source not found.		
Additional information			_

	ict 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)					
(0.1 (u))	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: 2018					
1.d	Product model part of a server product family?					
(3.1 (p))	List of all model configurations that are represented by the model:					
1.e	https://psref.lenovo.com/Product/ThinkSystem/ThinkSystem_SN850 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.xxsftp root:password@xx.xxx.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: <a href="https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCLI_RefMan_revf.pdf">https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCLI_RefMan_revf.pdf</a>					
1.f	Blade servers?  No  Yes					
(3.1 (o))	list of recommended combinations with compatible chassis: Flex System Enterprise 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					
(0.0 (4))	less than 5 g					
	between 5 g and 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><li>(c) the tool(s) required.</li></ul>					
	OR - Reference to other information: https://thinksystem.lenovofiles.com/help/index.jsp					
2.c	Firmware					
	Reference to information on last available firmware:  https://datacentersupport.lenevo.com/cn/on/products/servers/thinksystem/sn850/7x15/downloads/driver-list/					
Additional	https://datacentersupport.lenovo.com/cn/en/products/servers/thinksystem/sn850/7x15/downloads/driver-list/ litional information					
Auditional	III VIII III VIII III VIII VIII VIII V					

## Server family specific information Family 1

Family r	o. / name		ulated fami	ly		
Model n	el number(s) / Description Standard or low-end performance configuration:					
(3.1 (c))	(CPU: Intel(R) Xeon(R) Bronze 3104 CPU @ 1.70GHz					
		Memory: 96GB				
		Storage: 4000GB HDD				
		PSU: 2500W NIC: Intel(R) Ethernet Connection X722 for 10GbE backplane				
		High-end perform				
			n(R) Platinเ	ım 8276M CPU @ 2.20GHz 28	cores 165w	
		Memory: 384GB	CD			
		Storage: 960GB S PSU: 2500W	30			
			rnet Conne	ction X722 for 10GbE backpla	ne	
		You can refer to				
Addition	nal information		oadsolution	ns.com/80PlusPowerSupplies	Detail.aspx?id=49&type=1 for the PSU	
		efficiency details				
	t environmental attri					
F1.a (3.1 (e))				id 100 % of rated output power		
(3.1 (6))	(expressed in % and	rounded to the first	decimal plac	ce): 🔛 Multi-output 🔀 Single	e-output	
	Standard or low-end	nerformance configu	ration(s).			
			50% <b>94.2</b>	100% <b>91.5</b> Averag	e <b>93.36</b>	
	High-end performand					
E4 1:			0% 94.2		e 93.36	
F1.b (3.1 (f))	Power factor at 50 % (rounded to three de		/ei	standard or low-end performar configuration: 1.000	nce high-end performance configuration: 1.000	
F1.c	PSU rated power out			standard or low-end performar		
(3.1 (g))	(in Watts rounded to					
	internal note:	0 /		<b>G</b>	ŭ	
	If a product model is part of a ser product family shall be reported v	ver product family, all PSUs offer	red in a server			
F1.d	idle state power	nar are information opeomed in (	o) and (i)	standard or low-end performar	nce high-end performance	
(3.1 (h))	,	d to the first decimal place) configuration: 98.6 configuration: 111.9				
F1.e	List of all componen	ts for additional idle <sub>l</sub>	power allowa	ances		
(3.1 (i))		Γ	standard or	low-end performance	high-end performance	
			configuration	•	configuration:	
	CPU Performance		1 Socke	et (10 × PerfCPU W)	1 Socket	
			2 Socke	et (7 × PerfCPU W)	2 Socket	
allowances adjustments during testing	Additional PSU		Yes (	(Yes / No) #: <b>3</b>	Yes (Yes / No) #: 3	
stme	HDD			(Yes / No) #: 2	No (Yes / No) #:	
djus	SDD			es / No) #:	Yes (Yes / No) #: 2	
ss a	Additional memory  Additional buffered DDF	2 channal	,	Yes / No) #: 92GB	Yes (Yes/No)#: 380GB	
ance	Additional I/O devices	Channel		'es / No) #:	No (Yes / No) #:	
owa	radiional i/o dovidoo		none		none	
de d			<pre>&lt; 1 Gb/s: No Allowance = 1 Gb/s: 2.0 W/Active Port</pre>		< 1 Gb/s: No Allowance	
idle power			=		= 1 Gb/s: 2,0 W/Active Port	
е рс				and < 10 Gb/s: 4,0 W/Active Port	> 1 Gb/s and < 10 Gb/s: 4,0 W/Active Port	
Бi			=	and < 25Gb/s: 15,0 W/Active Port	≥ 10 Gb/s and < 25Gb/s: 15,0 W/Active Port	
			=	and < 50Gb/s: 20,0 W/Active Port	≥ 25 Gb/s and < 50Gb/s: 20,0 W/Active Port	
			≥ 50 Gb/s	26,0 W/Active Port	≥ 50 Gb/s 26,0 W/Active Port	
F1.f (3.1 (j))	maximum power (in Watts and rounde	ed to the first decima	l nlace)	standard or low-end performar configuration: 190.3	nce high-end performance configuration: 536.4	
F1.g	operating condition of		i piace)	standard or low-end performar		
(3.1 (k))	(as defined in Table			configuration:	configuration:	
	,	,		□A1 ⊠A2 □A3 □A4	□A1	
				Exception comments	Exception comments	
E1 h	idle etete sever =+ +1-	o higher have dam: 4-	amporation-	atandard or law and norfe	noo high and parformance	
F1.h (3.1 (l))	idle state power at the of the declared operation			standard or low-end performar configuration: 103.53	nce high-end performance configuration: 117.5	
F1.i	the active state effici			standard or low-end performar		
(3.1 (m))	active state of the se			configuration: 12.1	configuration: 37.7	

## Server family specific information Family 2

Family no. / name		2 - 4 CPU populated family			
Model number(s) / Description Standard or low-end performance configuration:					
(3.1 (c))	(c) )  NA  High-end performance configuration:				
		NA	nance conn	guration.	
		You can refer to			
Addition	nal information		<u>lloadsolution</u>	ns.com/80PlusPowerSupplies	Detail.aspx?id=49&type=1 for the PSU
Droduc	at any ironmental attri	efficiency detail	O4 Annov I	I nainta 2.1 and 2.2	
F2.a	t environmental attri	butes (EU) 2019/4	-24 – Annex I	i points 3.1 and 3.3	
(3.1 (e))	See family 1 Or specific to this far	nilv:			
			0 %, 50 % an	d 100 % of rated output power	
	` .		•	ce) : 🔲 Multi-output 🛛 Sing	le-output
	standard or low-end		. ,	4000/ 04.5	
	10% <b>93.52</b> 2	.0% <b>94.39</b>	50% <b>94.2</b>	100% <b>91.5</b> Averag	ge <b>93.36</b>
	high-end performand				
			50% <b>94.2</b>		ge <b>93.36</b>
F2.b (3.1 (f))	Occilanily i				
( ' ( ) '	(rounded to times de	cimai piaces)		Or specific to this family: standard or low-end performance 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 performa	nce high-end performance
	If a product model is part of a ser product family shall be reported w	ver product family, all PSUs of vith the information specified ir	fered in a server (e) and (f)	configuration:	configuration:
F2.d	idle state power			standard or low-end performan	nce high-end performance
(3.1 (h))	(in Watts and rounde			configuration:	configuration:
F2.e (3.1 (i))	List of all componen	ts for additional idle		ances · low-end performance	high-end performance
( (-//			configuration		configuration:
	CPU Performance		1 Socke	et (10 × PerfCPU W)	1 Socket
			2 Socket (7 × PerfCPU W)		2 Socket
idle power allowances adjustments during testing	Additional PSU	(Yes / No) #:			(Yes / No) #:
stm	HDD		(Yes / No) #: (Yes / No) #: (Yes / No) #:		(Yes / No) #:
adju 9	SDD Additional memory				(Yes / No) #: (Yes / No) #:
ses s	Additional buffered DDF			,	(Yes / No) #:
vanc	Additional I/O devices		none		none
allov					< 1 Gb/s: No Allowance
ver a					= 1 Gb/s: 2,0 W/Active Port
yod			> 1 Gb/s and < 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
F2.f (3.1 (j))	Maximum power (in Watts and rounde	nd to the first decim	al place)	standard or low-end performation:	nce high-end performance configuration:
(3.1 (k))	Operating condition		ai piace)	See family 1	corniguration.
	(as defined in Table			Or specific to this family:	
				standard or low-end performal	
				configuration:	configuration:
				☐ A1	<u></u>
				A2	A2
				A3	☐ A3
				Exception comments	Exception comments
F2.h	idle state power at th			See family 1	
(3.1 (l)) of the declared operating condition class (in Watts)		S	Or specific to this family:		
			standard or low-end performance high-end performance configuration:		
F2.i	the active state effici	ency and the perfo	mance in	See family 1	comiguration.
(3.1 (m))					
				standard or low-end performa	
				configuration:	configuration: