

OKProduct environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	Lenovo Logo			
Company name *	Lenovo			
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com			
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html			
Additional information	The latest version of this document can be found at			
	http://www.lenovo.com/social_responsibility/us/en/datasheets_i	notebooks.html		

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 *	Desktop			
Commercial name *	ideacentre AIO 310-20ASR			
Model number *	F0CK			
Issue date *	2016-09-22			
Intended market *	☑ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other			
Additional information	ENERGY STAR® Qualified; GREENGUARD Certification			

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality Control			ent met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).		

Model number *	ideacentre AIO 310-20ASR	F0CK	
Issue date *	2016-09-22	Logo	Lenovo.

Product	duct environmental attributes - Legal requirements				
Item		Yes	No	n.a.	
P1	Hazardous substances and preparations				
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.				
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.				
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).				
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	\boxtimes			
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.				
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)				
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.				
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.				
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/materials.html				
P2	Batteries				
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)				
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	\boxtimes			
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)				
P3	Safety, EMC connection to the telephone network and labeling				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	\square			
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).				
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	\boxtimes			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\square			
P4	Consumable materials				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).				
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).		\Box		
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).				
P5	Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	d			
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\boxtimes			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	l 🔀			

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Product	environmental attributes - Market requirements - 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.
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).			
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	\boxtimes		
P7.2*	Plastic materials in covers/housing have no surface coating.	\boxtimes	$\overline{\sqcap}$	
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		$\overline{\Box}$	$\overline{\Box}$
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		∺	Ħ
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		Ħ	Ħ
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ	Ħ
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives		П	П
P7.8*	Upgrading can be done using commonly available tools		$\overline{\sqcap}$	Ī
P7.9.	Spare parts are available after end of production for: 5 years			Ħ
P7.10	Service is available after end of production for: 5 years			Ħ
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
	Material type: PC Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes	
P7.13	Electrical cable insulation materials of signal cables are PVC free		\boxtimes	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	\boxtimes		
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)		\boxtimes	
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking:	\boxtimes		
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive), TBBPA (reactive), Other; chemical name: *Brominated Epoxy Resin*, CAS #: 26265-08-7;79-94-7			
DT 10	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: Brominated Epoxy Resin See P14			
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%:			
	Comment: No legal limits exist, this is a market requirement. 1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:			
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45,			
P7.20	R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)			_
	Of total plastic parts' weight >25g, recycled material content is 13%.			-
P7.21	Of total plastic parts' weight >25g, biobased material content is %.			<u> </u>
P7.22	Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg		Ш	
P8	Batteries " The state of the st			
P8.1*	Battery chemical composition: Lithium manganese dioxide coin battery			
P8.2	Batteries meet the requirements of the following voluntary program/s:			IXI

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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	ict environmental attributes - Market requirements (continued) Requirement met					
Item					Yes No	n.a.
	nergy consumpti					
9.1 For the product the following power levels or energy consumptions are reported: See P14						
Energy mode	*	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and tes method *	t 🔲
Peak (On-ma	x)	W	W	W	Full load	
Category I	1					
Short Idle St	ate - WOL Enable	ed W	27.7 W	27.7 W	Use for ENERGY STAR V6 registration (Pidle)	
Long Idle Sta	ate - WOL Enable	d W	17.2 W	16.5 W	Use for ENERGY STAR V6 registration (P _{idle})	十一
Sleep (S3) - I	WOL Enabled	W	0.6 W	0.6 W	Use for ENERGY STAR V6 registration(P _{sleep})	一
Sleep (S3) - I	WOL Disabled	W	W	W	Reference	
Off (S5) - WC)L Enabled	W	0.4 W	0.4 W	Use for ENERGY STAR V6 registration(Poff)	
Off (S5) - WC)L Disabled	W	W	W	Use for EuP	
plugged in the	ver supply / charge e wall outlet but from the product.)		0.050 W	0.080 W		
PTEC * Typical Energ	y Consumption	W	W	W		
TEC * Typical Energ	y Consumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Energ	y Consumption	kWh/year	kWh/year	108.3 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.45 + P _{sleep} x 0.05 + P _{long_Idle} x 0.15+ P _{short_Idle} x 0.35)	
	P _{off} : Off Mode(S5) - WOL Enabled; P _{sleep} : Sleep Mode(S3) - WOL Enabled; P _{idle} : Idle State - WOL Enabled		1_			
	ution* : 1.29 Mega					
Print Speed *	: Ima	ages per minute				
Default time to	o enter energy sav	ve mode: 25 minutes	3			
P9.2* In	formation about th	ne energy save func	tion is provided wi	th the product.		
E 0	- -					
	missions oise emission – [Declared according	to ISO 9296			
		ode description		Declared A-weighted sound power level $L_{W{ m Ad}}$ ((B) Operator position Desktop (only if product is no] t
Id	lle *	HDD:Idle		* 2.4	operator attended	4 _
	peration *	HDD: Operating		* 2.8	21	1 H
l <u> </u>	ther mode	,				┦ 💆
M	leasured according	g to: 🔀 ISO7779 🗍	ECMA-74	,		
		Other	(only if not cove	red by ECMA-74	with L _{pAm} measurement distance m)	
P10.2 T	he product meets	the acoustic noise r				

Model number *	ideacentre AIO 310-20ASR	F0CK	
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Product	environmental attributes - Market requirements (continued)	equire	ment	met
Item		Yes	No	n.a.
	Chemical emissions from printing products			
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:			\boxtimes
P10.4	Typical emission rate (print phase) is (mg/h):			X
	Dust Ozone Styrene Benzene TVOC			
P10.5	Chemical emission requirements of the following voluntary program/s are met for :			\boxtimes
	Dust Ozone Styrene Benzene TVOC			
	Electromagnetic emissions			
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:			
P11	Consumable materials for printing products			
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).			\boxtimes
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.			
P11.3*	2-sided (duplex) printing/copying is an integrated product function.			\boxtimes
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.			
P13	Packaging and documentation			
P13.1*	Product packaging material type(s): EPE weight (kg): 0.35			
	Product packaging material type(s): PAPER weight (kg): 1.14			
P13.2*	Product packaging material type(s): LDPE weight (kg): 0.015 Product plastic packaging is free from PVC.	<u> </u>		
	1 1 0 0		_Ц	井
P13.3*	Specify media for user and product documentation (tick box): Electronic , Paper , Other ,			Ш
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled			
P13.4	fiber: 3%			
P14	Additional information (See Note B4)			
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied,	regardir	ng the	
	information contained in this document. All information provided by supplier in this document is provided based knowledge available at the time of completion, and supplier shall have no obligation to update such information	I on sup	pliers	tion
	provided here is approximate and provided for informational purposes only. See a Lenovo Account Representa	itive for i	noma more	liori
	information.			
P9	See Energy Star Qualified Notebooks & Tablet Computers for the latest information:			
	http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO			

Note B4: 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 B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

Lenovo ErP Lot3 Information Sheet

- PC / Notebook -

As required by 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 (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	ideacentre AIO 310-20ASR	Logo	
Model Number	F0CK	Lenovo	
Issue Date	2016-09-22	20.1010	
Additional information	ENERGY STAR® Qualified; GREENGUARD Certification; EPEAT		

(d)	year of manufacture: Available on pro-							
(e)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display:							
	Category (according to ErP Lot 3): B Etec: 58.05kWh							
(f)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enabled:							
(g)	idle state power demand (Watts);	B:15.88						
(h)	sleep mode power demand (Watts);	B:0.65						
(i)	sleep mode with WOL enabled power demand (Watts) (where enabled);							
(j)	off mode power demand (Watts);							
(k)	off mode with WOL enabled power demand (Watts) (where enabled);	B:0.44						
(I)	internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):	N/A						
	10% 20% 50% 100% Average							
(m)	external power supply efficiency (if applicable): Average*: level V							
(0)	*internal note: show values for all available external power supplies the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):							
(o)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers).	N/A						
(p-1)	the measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency: N/A							
(p-2)	the measurement methodology used to determine information mentioned in points (m) - external PSU							
•	efficiency: refer to ErP lot7							
(p-3)	the measurement methodology used to determine information mentioned in points (o) – loadingcycles batteries:							

	the measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration:							
	IEC 62623/IEC EN50564:2011 measurement methodology							
(q)	sequence	of steps for achieving	g a stab	le condition with respect to power demand::				
	Power on->Walt 5 minutes->Stable condition							
(r)	description of how sleep and/or off mode was selected or programmed:							
	Begin menu->Power->Select sleep or off mode							
	sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:							
	Control Panel->Power Options->Change Settings->Restore default settings for this plan							
	the duration of idle state condition before the computer automatically reaches sleep mode, or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes): 25 minutes							
	the length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes): 25 minutes							
(v)	the length of time before the display sleep mode is set to activate after user inactivity (in minutes): 10 minutes							
(w)	information on the energy-saving potential of power management functionality:							
				NA				
(x)	user inform	nation on how to ena	ble the p	power management functionality:				
				Refer to User Guide				
	test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing:							
	Test voltage in V and frequency in Hz 230V/50Hz							
	Total harmonic distortion of the electricity supply system <2% Information and documentation on the instrumentation, set-up and circuits used for electrical testing							
		230V/50Hz, AC s	source:	Chroma 63640-80-80, Power Meter: Yokogawa WT310				
Addition No	tebook B	attery Information:						
Yes		No	n/a	This notebook computer is operated by battery/ies that cannot be acce- by a non-professional user.	ssed and replaced			
(Battery r	ot user	(Battery user replaceable)		The battery[ies] in this product cannot be easily replathemselves	aced by users			
Additional	nformatio	n						
Additional information								