



Ecma/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

## Annex B2 - Product environmental attributes Computers and computer monitors

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 * e-mail address	Lenovo Global Environmental Affairs Alvin L Carter alcarter@lenovo.com	Lenovo.				
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/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 *	Notebook					
Commercial name *	ThinkPad X270					
Model number *	20HM, 20HN, 20K5, 20K6					
Issue date *	2016/12/5					
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 number *	20HM, 20HN, 20K5, 20K6	Logo	Lanova
Issue date *	2016/12/5		Lei Iovo

Product	environmental attributes - Legal requirements	ı	Require	ment	met
Item			Yes	No	n.a.
P1	Hazardous substances and preparations				
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE	B1)	$\boxtimes$		
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, carbontetrach trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no moncentration values.	naximum			
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychterphenyl (PCT) in preparations (see legal reference).	lorinated			
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 card chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in the			
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0 (see legal reference).  Comment: Max limit in legal reference when tested according to EN1811:2011-5.	l,5 μg/cm²/week			
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail <a href="http://www.lenovo.com/social">http://www.lenovo.com/social</a> responsibility/us/en/environment.html	contact):	$\boxtimes$		
P2	Batteries				
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with symbol. Information on proper disposal is provided in user manual. (See legal reference)	he disposal			
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmeference)	nium. (See legal	X		
P2.3*	Batteries and accumulators are readily removable. (See legal reference)		$\boxtimes$		
P3	Conformity verification & Eco design (ErP)				
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal The Declaration of Conformity can be requested at (add link or e-mail address):	gal reference).			
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference).				
	Required information is;  given in item P15 or added to this document,  available at (add URL):  http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks/				
P5	Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury hexavalent chromium by weight of these together.	y, cadmium and			
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature used (see legal reference).	of the material(s)			
P5.3*	The product packaging material is free from ozone depleting substances as specified Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.	in the Montreal			
P6	Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).		$\boxtimes$		

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	20HM, 20HN, 20K5, 20K6	Logo	Lanova
Issue date *	2016/12/5		Lei IOVO.

Product	environmental attributes - Market requirements (See General NOTE GN below)			
	- Environmental conscious design	quire	nent	met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P7	Design			
P7.1*	Disassembly, recycling  Parts that have to be treated separately are easily separable	$\square$	$\overline{}$	
P7.2*	Plastic materials in covers/housing have no surface coating.		X	$\exists$
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.			$\blacksquare$
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	$\overline{X}$	Ħ	$\dashv$
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		Ħ	$\forall$
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	$\overline{\mathbb{X}}$	Ħ	$\dashv$
	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: 5 years			
P7.10	Service is available after end of production for: 5 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
P7.12	Material type: PA+GF50% Material type: PC+ABS Material type: PC Insulation materials of external electrical cables are PVC free.			
P7.12	Insulation materials of external electrical cables are PVC free.			
P7.13			<u> </u>	$\perp$
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, and	X		Ш
	polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts			
	containing 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 as defined in IEC 61249-2-21. (See 1NOTE B2)		Ш	
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: <i>FR</i> (40)			
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: <b>Bisphenol A diglycidyl ether</b> , CAS	$\boxtimes$	Ш	Ш
	#: 40039-93-8			
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:		Ш	
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: halogen-free organic phosphorus compound, CAS #: confidential (See NOTE		$\boxtimes$	Ш
	B4)			
	2. Chemical name: , CAS #: "			
	3. Chemical name: , CAS #: "	$\boxtimes$		
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:FR(40)			
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; <b>R36</b> ; <b>R38</b> and Hazard statements: <b>H319</b> ; <b>H315</b>			
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):		$\overline{}$	
F1.20	rostconsumer recycled plastic material content is used in the product (See Note Bo).	$\boxtimes$	Ш	
	If YES; at least one of the two alternatives below shall be answered;			
	<ul> <li>a) Of total plastic parts' weight &gt; 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 0.017%%.</li> </ul>			
	or			
	b) The weight of recycled material is 0.36 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 *	20HM, 20HN, 20K5, 20K6	Logo	Lonovo
Issue date *	2016/12/5		LEI IOVO.

Product environmental attributes - Market requirements (continued)  Requirement met							
eq:tem:tem:tem:tem:tem:tem:tem:tem:tem:tem							
	stance requirements						
P7.21* Biobased plastic m	naterial content is used	in the product (See N	OTE B7):				
a) Of total plasti of total plastic			ered; material content (calcul	ated as a percentage			
or b) The weight of	the highesed plastic r	natorial is a					
P7.22* Light sources are t	P7.22* Light sources are free from mercury, i.e. less than 0,1 mg/lamp.						
P8 Batteries	specily. Number of lan	ips. and maxim	um mercury content per	lamp: mg			
	omposition: Lithium Id	on/Lithium Manganes	e Dioxide				
·	tion (See NOTE B8)						
		s or energy consumption	ons are reported:				
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 test method *			
Peak (On-max)	45/65 W	45/65 W	45/65 W	Full load			
CategoryI1							
Short Idle State - WOL Enabled	5.30 W	5.47 W	5.52 W	Use for ENERGY STAR V6 registration (P <sub>idle</sub> )			
Long Idle State - WOL Enabled	3.03 W	2.96 W	3.03 W	Use for ENERGY STAR V6 registration (P <sub>idle</sub> )			
Sleep (S3) - WOL Enabled	0.49 W	0.49 W	0.52 W	Use for ENERGY STAR V6 registration(P <sub>sleep</sub> )			
Sleep (S3) - WOL Disabled	W	W	<b>0.43</b> W	Reference			
Off (S5) - WOL Enabled	0.29 W	0.29 W	0.31 W	Use for ENERGY STAR V6 registration(P <sub>off</sub> )			
Off (S5) - WOL Disabled	W	W	<b>0.27</b> W	Use for ErP			
	W	W	W	Reference			
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	<b>0.05</b> W	0.06 W	0.08 W				
PTEC * Typical Energy Consumption	44.53 W	44.53 W	44.53 W				
ETEC * Annual Energy Consumption	<b>18.72</b> kWh/year	19.11 kWh/year	19.43 kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>off</sub> x 0.25 + P <sub>sleep</sub> x 0.35 + P <sub>long_ldle</sub> x 0.10+ P <sub>short_ldle</sub> x 0.30)			
				d; P <sub>idle</sub> : Idle State - WOL Enabled			
External Power Supply Efficien	•	Efficiency Marking Pro	otocol) * : VI				
Display resolution * : 1.05 meg	apixels						
CategoryI2							
Short Idle State - WOL Enabled	6.03 W	6.08 W	6.17 W	Reference			
Long Idle State - WOL Enabled	3.58 W	3.42 W	3.59 W	Reference			
Sleep (S3) - WOL Enabled	0.48 W	<b>0.48</b> W	0.52 W	Reference			
Sleep (S3) - WOL Disabled	W	W	0.44 W	Reference			
Off (S5) - WOL Enabled	0.29 W	0.29 W	0.33 W	Reference			
Off (S5) - WOL Disabled	W	W	<b>0.27</b> W	Reference			
	W	W	W	Reference			

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>

EPS No-	load	0.08 W	0.08 W	0.12 W	
	rer supply / charger plugged in the disconnected from the product.				
PTEC *		<b>51.89</b> W	51.89 W	<b>51.89</b> W	
	Energy Consumption				
ETEC * Annual E	Energy Consumption	<b>21.09</b> kWh/year	21.08 kWh/year	<b>21.68</b> kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>off</sub> x 0.25 + P <sub>sleep</sub> x 0.35 + P <sub>long_Idle</sub> x 0.10+ P <sub>short_Idle</sub> x 0.30)
		P <sub>off</sub> : Off Mode(S5) - I	WOL Enabled; P <sub>sleep</sub> : Sle	eep Mode(S3) - WOL Enal	bled; P <sub>idle</sub> : Idle State - WOL Enabled
External	Power Supply Effici	ency Level (Internatior	nal Efficiency Marking I	Protocol) * : VI	
Display r	esolution * : 2.07 m	egapixels			
Default ti	Default time to enter energy save mode: 30 minutes				
P9.2*	P9.2* Information about the energy save function is provided with the prod			ne product.	
P9.3	Energy efficience	y class (monitors only)	:		
P10	Emissions				
	Noise emission	- Declared according	to ISO 9296 (See NO	TE B9)	
P10.1	Mode	Mode description		Statistical upper li	mit A-weighted sound power level, $L_{WA,c}$ (B)
	Idle	* HDD idle		* 3.0	
	Operation	* Operating (HDD) * Operating (CPU)		* 3.0 * 3.2	
	Other mode	Declared A-weighted so	und pressure level (dB) $L_{ m p}$	<sub>pAm</sub> 23 (operator posit	ition desktop – idle)
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p  ext{Am}}$ 23 (operator position desktop – operating			tion desktop – operating (HDD) )
	Other mode	Declared A-weighted sound pressure level (dB) $L_{pAm}$ 25 (operator position desktop – operating (CPU) )			
	Measured accor	ding to: ISO 7779 Other	ECMA-74 (only if not covered	by ECMA-74)	

Model number *	20HM, 20HN, 20K5, 20K6	Logo	Lenovo
Issue date *	Error! Reference source not found.		LEI IOVO"

Product 6	environmental attributes	- Market requirements (con	itinued)		Require	ment	met
Item			•		Yes	No	n.a.
	Electromagnetic emissions	5					
P10.4	Computer display meets the program(s):	requirement for low frequency el	lectromagnetic fields	s of the following voluntary			
P12	Ergonomics for computing						
P12.1*	The display meets the ergon	omic requirements of ISO 9241-	307 for visual displa	y technologies.	$\boxtimes$		
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.						
P13	Packaging and documenta	tion					
P13.1*	Product packaging material t	type(s): Corrugated Cardboard	weight (k	g): <b>0.599</b>			
	Product packaging material type(s): Others (Plastic Bag) weight (kg): 0.020						
P13.2*	Product plastic primary pack	aging is free from PVC.					
P13.3*		ated fiberboard packaging, spec entent: <b>70</b> % (Only for Japan)	cify the contained p	percentage of minimum posi	t-		
P13.4*	Specify media for user and p	product documentation (tick box): Other					
P13.5		em if paper documentation used ation on paper media is chlorine-					
	Totally chlorine-free				$\boxtimes$		
	Elemental chlorine-free				$\boxtimes$		
	Processed chlorine-free				$\boxtimes$		
P14	Voluntary programs						
P14.1	The product meets the requi	rements of the following voluntar	y program(s):				
	ENERGY STAR®	Criteria version: 6.1	Date: 2016/11/4	Product category: 11/12			
	Eco-label: <i>EPEAT</i>	Criteria version: <i>IEEE 1680.1-2009</i>	Date: 2017/1/23	Product category: Noteboo	ok .		
	Eco-label: <b>TCO</b>	Criteria version: <b>Notebook 5.0</b>	Date: 2017/1/23	Product category: Noteboo	ok .		
P15	Additional information (Se	e NOTE B10)					
P9	Energy consumption of sp	ecific configuration may vary;	description of the	tested product configuration	on:		
	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 Account Representative for more information.						
P9	See Energy Star Qualified N http://www.energystar.gov/in	otebooks & Tablet Computers fo dex.cfm?fuseaction=find_a_proc	r the latest informati luct.showProductGr	ion: oup&pgw_code=CO			

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
Regulation (EC) 1907/2006(REACH, 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 2013/56/EC (Battery and accumulators Directive) *  * 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 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE 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
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

# **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	ThinkPad X270	Logo
Model Number	20HM, 20HN, 20K5, 20K6	Lenovo
Issue Date	2016/12/5	
Additional information		

d)	year of manufacture:				2016		
e)	Etec 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.						
(f) Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) enable							
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)		
	Memory over base [GB]	12					
capability adjustments applied during testing	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)		
	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)		
	Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)		
cap	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)		
	Category of discrete graphics Card(s)	No					
Test results	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	12.24					
	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled	N/A					
(g) Idle state power demand (Watts); 3.8							
) Sleep mode power demand (Watts); 0.74					0.74		
Sleep mode with WOL enabled power demand (Watts) (where enabled); 0.77							
	Off mode power demand (Watts); 0.3						
.)	Off mode with WOL enabled power demand (Watts) (where enabled);  0.3						
(I) Internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):							
	10% 20% 50%	100% Avera	ige				
1)	external power supply efficiency (if appli	cable)*:					
	Average active efficiency: 45W: 87,98%	,88,63%,88,83%, 65 <b>W</b>	/: 89,41%,88,62%,88,	96%			
)	*internal note: show values for all available external power supplies  Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):  500 cycles						
-1)	Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency:  N/A						

(p-2)	p-2) Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:  EPA "Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC  Power Supplies" dated August 11, 2004						
(p-3)	Measurement metho	asurement methodology used to determine information mentioned in points (o) – loading cycles batteries:  IEC 61960 measurement methodology					
(p-4)							
(q)	Sequence of steps for achieving a stable condition with respect to power demand::  IEC 62623 / IEC EN50564:2011 measurement methodology						
(r)	Description of how sleep and/or off mode was selected or programmed:  By selecting sleep and/or off mode thru Windows operating system						
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:  Automatically changes to sleep after 30 minutes						
		,					
(t)	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):						
(u)							
(v)		re the display sleep mode is set to activate after		10			
(w) Information on the energy-saving potential of power management functionality:  User information described in User Guide and Power Manager under ThinkVantage menu in all programs							
(x) user information on how to enable the power management functionality:  **User information described in User Guide and Power Manager under ThinkVantage menu in all programs**							
(z) 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:  230V, 50Hz, Total Harmonic Distortion <2 %							
Addition	Notebook Battery	Information:					
		Battery[ies] not user replaceable	Battery[ies] user replaceable	n/a			
		The battery[ies] in this product cannot be easily replaced by users themselves. 1)					
Internal/b	ouilt-in Battery						
External/detachable Battery							
Bios Backup Battery							
Other:							
Additional information							
1) The better/lie	val in this product connet be	easily replaced by users themselves					

The battery[ies] in this product cannot be easily replaced by users themselves.

Акумулаторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители.

Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.

Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.

Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.
Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.

Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada. Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.

Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente. Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us).

Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti. A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni. II-batterija/batteriji f'dan iI-prodott ma tistax/jistgħux tiġi/jiġu sostitwita/i mill-utenti stess.

Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.

Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.

A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores. Bateria (bateriile) din acest produs nu poate (pot) fi uşor înlocuită (înlocuite) de utilizatorii înşişi. Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ.

Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati. Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa. Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.

Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.