


# THE ECO DECLARATION



ECMA/TC38-TG3/2015/026  
(Rev. 1 – 15 April 2017)

## Annex B2 - Product environmental attributes Desktop/All-in-One Computers

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<br> |
| Company name *                          | Lenovo  |   |
| Contact information *<br>e-mail address | Lenovo Global Environmental Affairs<br>Alvin L Carter<br>alcarter@lenovo.com  |   |
| Internet site *                         | <a href="http://www.lenovo.com/social_responsibility/us/en/environment.html">http://www.lenovo.com/social_responsibility/us/en/environment.html</a> |   |
| Additional information                  | The latest version of this document can be found at:<br><a href="http://www.lenovo.com/ecodeclaration">http://www.lenovo.com/ecodeclaration</a>     |   |

|  |  |
|--|--|
| 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 *  | Personal Computer  |
| Commercial name *  | ThinkCentre M80 Tiny   |
| Model number *   | 11DN, 11DQ, 11DR, 11DS, 11F6, 11F7, 11F8 11F9, 11DM  |
| Issue date *   | 2020-4-30  |
| Intended market *  | <input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other |
| Additional information   | Energy Star, EPEAT, TCO  |

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 * | 11DN, 11DQ, 11DR, 11DS, 11F6, 11F7, 11F8 11F9, 11DM | Logo |  |
| Issue date *   | 2020-4-30   |      |   |

| Product environmental attributes - Legal requirements |  | Requirement met                     |                                     |                          |
|---|--|-------------------------------------|-------------------------------------|--------------------------|
| Item  |  | Yes                                 | No                                  | n.a.                     |
| <b>P1</b>   | <b>Hazardous substances and preparations</b>   |                                     |                                     |                          |
| P1.1*   | Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| P1.2*   | Products do not contain Asbestos (see legal reference).<br>Comment: Legal reference has no maximum concentration value.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| P1.3*   | Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| P1.4*   | Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| 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).   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| P1.6*   | Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm <sup>2</sup> /week (see legal reference).<br>Comment: Max limit in legal reference when tested according to EN1811:2011-5.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| P1.7*   | REACH Article 33 information about substances in articles is available at (add URL or mail contact):<br><a href="https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure">https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure</a>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <b>P2</b>   | <b>Batteries</b>   |                                     |                                     |                          |
| P2.1*   | If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| P2.2*   | Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| P2.3*   | Batteries and accumulators are readily removable. (See legal reference)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>P3</b>   | <b>Conformity verification &amp; Eco design (ErP)</b>  |                                     |                                     |                          |
| P3.1*   | 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>  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| P3.2*   | The product complies with the Eco design requirements for energy-related products, (see legal reference).<br>Required information is; <input type="checkbox"/> given in item P15 or added to this document,<br><input checked="" type="checkbox"/> available at: <a href="https://www.lenovo.com/us/en/compliance/eco-declaration">https://www.lenovo.com/us/en/compliance/eco-declaration</a> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <b>P5</b>   | <b>Product packaging</b>   |                                     |                                     |                          |
| P5.1*   | Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                          |
| P5.2*   | The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| P5.3*   | The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).<br>Comment: Legal reference has no maximum concentration values.   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| <b>P6</b>   | <b>Treatment information</b>   |                                     |                                     |                          |
| P6.1*   | Information for recyclers/treatment facilities is available (see legal reference).   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

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 * | 11DN, 11DQ, 11DR, 11DS, 11F6, 11F7, 11F8 11F9, 11DM | Logo |  |
| Issue date *   | 2020-4-30   |      |   |

| Product environmental attributes - Market requirements (See General NOTE GN below) |   | Requirement met                     |                                     |                                     |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|
| - Environmental conscious design   |   | Yes                                 | No                                  | n.a.                                |
| Item   | *=mandatory to fill in. Additional information regarding each item may be found under P14.  |                                     |                                     |                                     |
| <b>P7 Design, Disassembly, recycling</b>   |   |                                     |                                     |                                     |
| P7.1*  | Parts that have to be treated separately are easily separable   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.2*  | Plastic materials in covers/housing have no surface coating.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.3*  | Plastic parts > 100 g consist of one material or of easily separable materials.   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.4*  | Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.5   | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.6*  | Labels are easily separable. (This requirement does not apply to safety/regulatory labels).   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <b>Product lifetime</b>  |   |                                     |                                     |                                     |
| P7.7*  | Upgrading can be done e.g. with processor, memory, cards or drives  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.8*  | Upgrading can be done using commonly available tools  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.9   | Spare parts are available after end of production for: 5 years  |                                     |                                     | <input type="checkbox"/>            |
| P7.10  | Service is available after end of production for: 5 years   |                                     |                                     | <input type="checkbox"/>            |
| <b>Material and substance requirements</b>   |   |                                     |                                     |                                     |
| P7.11*   | Product cover/housing material type (e.g. plastics, metal, aluminum):<br>Material type: <b>ABS</b> Material type: <b>PC</b> Material type: <b>ABS+PC</b>  |                                     |                                     |                                     |
| P7.12  | Insulation materials of external electrical cables are PVC free.  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| P7.13  | Insulation materials of internal electrical cables are PVC free.  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 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 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.                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| P7.15  | Printed circuit boards, PCBs (without components) are low halogen: all <input type="checkbox"/> PCBs > 25 g <input type="checkbox"/> are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| P7.16  | Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:<br>Marking:   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| P7.17  | Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components):<br><input type="checkbox"/> TBBPA (additive), <input type="checkbox"/> TBBPA (reactive) (See NOTE B3), <input type="checkbox"/> Other: , CAS #:<br>Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| P7.18  | Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%:<br>Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| P7.19  | In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements:<br>The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| P7.20*   | Postconsumer recycled plastic material content is used in the product (See Note B6):<br><br>If YES; at least one of the two alternatives below shall be answered;<br>a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is %.<br>or<br>b) The weight of recycled material is g.             | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |


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.

|                |   |      |   |
|----------------|---|------|---|
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| Issue date *   | 2020-4-30   |      |   |

| Product environmental attributes - Market requirements (continued) |  | Requirement met |    |      |
|--|--|-----------------|----|------|
| Item   |  | Yes             | No | n.a. |

| Material and substance requirements (continued)   |   |  |   |   |
|---|---|--|---|---|
| P7.21*  | Biobased plastic material content is used in the product (See NOTE B7):   | <input type="checkbox"/>   | <input checked="" type="checkbox"/>   | <input type="checkbox"/>  |
| P7.22*  | Light sources are free from mercury, i.e. less than 0,1 mg/lamp.<br>If mercury is used specify: Number of lamps: _____ and maximum mercury content per lamp: _____ mg | <input type="checkbox"/>   | <input type="checkbox"/>  | <input checked="" type="checkbox"/>   |
| <b>P8 Batteries</b>   |   |  |   |   |
| P8.1*   | Battery chemical composition: <i>Lithium Ion/Lithium Manganese Dioxide</i>  |  |   | <input type="checkbox"/>  |
| <b>P9 Energy consumption (See NOTE B8)</b>  |   |  |   |   |
| P9.1 For the product the following power levels or energy consumptions 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 *   |
| <i>Peak (On-max)</i>  | <i>35.57 W</i>  | <i>35.44 W</i>   | <i>36.12 W</i>  | <i>Full load</i>  |
| <b>Category I1</b>  |   |  |   |   |
| <i>Short Idle State - WOL Enabled</i>   | <i>7.74 W</i>   | <i>7.73 W</i>  | <i>7.75 W</i>   | <i>Use for ENERGY STAR V8 registration (P<sub>idle</sub>)</i>   |
| <i>Long Idle State - WOL Enabled</i>  | <i>6.65 W</i>   | <i>6.65 W</i>  | <i>6.63 W</i>   | <i>Use for ENERGY STAR V8 registration (P<sub>idle</sub>)</i>   |
| <i>Sleep (S3) - WOL Enabled</i>   | <i>1.9 W</i>  | <i>1.9 W</i>   | <i>1.9 W</i>  | <i>Use for ENERGY STAR V8 registration (P<sub>sleep</sub>)</i>  |
| <i>Off (S5) - WOL Enabled</i>   | <i>0.4 W</i>  | <i>0.4 W</i>   | <i>0.4 W</i>  | <i>Use for ENERGY STAR V8 registration (P<sub>off</sub>)</i>  |
| <i>Off (S5) - WOL Disabled</i>  | <i>0.25 W</i>   | <i>0.25 W</i>  | <i>0.25 W</i>   | <i>Use for ErP</i>  |
| <b>Category I2</b>  |   |  |   |   |
| <i>Short Idle State - WOL Enabled</i>   | <i>11.56 W</i>  | <i>11.53 W</i>   | <i>11.82 W</i>  | <i>Use for ENERGY STAR V8 registration</i>  |
| <i>Long Idle State - WOL Enabled</i>  | <i>9.69 W</i>   | <i>9.66 W</i>  | <i>9.73 W</i>   | <i>Use for ENERGY STAR V8 registration</i>  |
| <i>Sleep (S3) - WOL Enabled</i>   | <i>1.6 W</i>  | <i>1.6 W</i>   | <i>1.6 W</i>  | <i>Use for ENERGY STAR V8 registration</i>  |
| <i>Off (S5) - WOL Enabled</i>   | <i>0.8 W</i>  | <i>0.8 W</i>   | <i>0.8 W</i>  | <i>Use for ENERGY STAR V8 registration</i>  |
| <i>Off (S5) - WOL Disabled</i>  | <i>0.25 W</i>   | <i>0.25 W</i>  | <i>0.25 W</i>   | <i>Use for ErP</i>  |
| EPS No-load   | W   | <i>0.120 W</i>   | <i>0.168 W</i>  | <input type="checkbox"/>  |
| PTEC *  | W   | W  | W   | <input checked="" type="checkbox"/>   |
| Typical Energy Consumption  |   |  |   |   |
| ETEC *  | <i>34.18</i>  | <i>34.16</i>   | <i>34.19</i>  | <i>E<sub>TEC</sub> = (8760/1000) x (P<sub>off</sub> x 0.45 + P<sub>sleep</sub> x 0.05 + P<sub>long_idle</sub> x 0.15 + P<sub>short_idle</sub> x 0.35)</i> |
| Annual Energy Consumption   | <i>46.23 kWh/year</i>   | <i>46.12 kWh/year</i>  | <i>46.94 kWh/year</i>   | <input type="checkbox"/>  |
| <i>P<sub>off</sub>: Off Mode(S5) - WOL Enabled; P<sub>sleep</sub>: Sleep Mode(S3) - WOL Enabled; P<sub>idle</sub>: Idle State - WOL Enabled</i>                         |   |  |   |   |
| External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: <i>V1</i>   |   |  |   |   |
| Display resolution * :  | megapixels  |  |   | <input checked="" type="checkbox"/>   |
| Default time to enter energy save mode:   | <i>25</i> minutes   |  |   | <input type="checkbox"/>  |
| P9.2*   | Information about the energy save function is provided with the product.  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>  | <input type="checkbox"/>  |
| P9.3  | Energy efficiency class (monitors only):  |  |   | <input checked="" type="checkbox"/>   |
| <b>P10 Emissions</b>  |   |  |   |   |
| <b>Noise emission</b> – Declared according to ISO 9296 (See NOTE B9)  |   |  |   |   |
| P10.1   | Mode  | Mode description   | Statistical upper limit A-weighted sound power level, L <sub>WA,c</sub> (B) |   |
|   | Idle  | * <i>HDD:Idle</i>  | * <i>3.2</i>  |   |
|   | Operation   | * <i>HDD: Operating</i>  | * <i>3.6</i>  |   |
|   | Other mode  | <i>Declared A-weighted sound pressure level (dB) L<sub>pAm</sub></i> | <i>24.5 (operator position desktop – idle)</i>                              |   |
|   | Other mode  | <i>Declared A-weighted sound pressure level (dB) L<sub>pAm</sub></i> | <i>27 (operator position desktop – operating)</i>                           |   |
| Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74<br><input type="checkbox"/> Other (only if not covered by ECMA-74) |   |  |   |   |


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

NOTE B8 A Guidance document on Energy Efficiency is available;

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

NOTE B9 A Guidance document on Acoustic Noise is available;

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

|                |   |      |   |
|----------------|---|------|---|
| Model number * | 11DN, 11DQ, 11DR, 11DS, 11F6, 11F7, 11F8 11F9, 11DM | Logo |  |
| Issue date *   | 2020-4-30   |      |   |

| Product environmental attributes - Market requirements (continued) |  | Requirement met                     |                          |                                     |
|--|--|-------------------------------------|--------------------------|-------------------------------------|
| Item   |  | Yes                                 | No                       | n.a.                                |
| <b>Electromagnetic emissions</b>                                   |  |                                     |                          |                                     |
| P10.4  | Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>P12 Ergonomics for computing products</b>                       |  |                                     |                          |                                     |
| P12.1*   | The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| P12.2*   | The physical input device meets the requirements of ISO 9995 and ISO 9241-410.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>P13 Packaging and documentation</b>                             |  |                                     |                          |                                     |
| P13.1*   | Product packaging material type(s): <b>Corrugated Fiberboard</b> weight (kg): <b>0.345</b><br>Product packaging material type(s): <b>EPE</b> weight (kg): <b>0.083</b><br>Product packaging material type(s): <b>LDPE</b> weight (kg): <b>0.01</b>   |                                     |                          |                                     |
| P13.2*   | Product plastic primary packaging is free from PVC.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| P13.3*   | For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: <b>70%</b> %   |                                     |                          | <input type="checkbox"/>            |
| P13.4*   | Specify media for user and product documentation (tick box):<br><input checked="" type="checkbox"/> Electronic, <input checked="" type="checkbox"/> Paper, <input type="checkbox"/> Other  |                                     |                          | <input type="checkbox"/>            |
| P13.5  | (Please only complete this item if paper documentation used)<br>User and product documentation on paper media is chlorine-free:<br>If Yes, please specify:<br><br>Totally chlorine-free<br>Elemental chlorine-free<br>Processed chlorine-free  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|  |  | <input checked="" type="checkbox"/> |                          |                                     |
|  |  | <input type="checkbox"/>            |                          |                                     |
|  |  | <input type="checkbox"/>            |                          |                                     |
| <b>P14 Voluntary programs</b>                                      |  |                                     |                          |                                     |
| P14.1  | The product meets the requirements of the following voluntary program(s):<br><br>ENERGY STAR® Criteria version: <b>8.0</b> Date: <b>2020/3</b> Product category: <b>Desktop</b><br>Eco-label: <b>TCO</b> Criteria version: <b>8.0</b> Date: <b>2020/5</b> Product category: <b>Desktop</b><br>Eco-label: Criteria version: Date: Product category: |                                     |                          |                                     |
| <b>P15 Additional information (See NOTE B10)</b>                   |  |                                     |                          |                                     |
| P9   | <b>Energy consumption of specific configuration may vary; description of the tested product configuration:</b><br><a href="#">I1-G5900T/32GB/M.2&amp;2.5"HDD</a><br><a href="#">I2-I9-10900T/32GB/M.2&amp;2.5"HDD</a>  |                                     |                          |                                     |
| P9   | See Energy Star Qualified Notebooks & Tablet Computers for the latest information:<br><a href="http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=CO">http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=CO</a>  |                                     |                          |                                     |

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) *<br>* 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) *<br>* 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        | <i>ThinkCentre M80 Tiny</i>                                | Logo<br> |
| Model Number           | <i>11DN, 11DQ, 11DR, 11DS, 11F6, 11F7, 11F8 11F9, 11DM</i> |   |
| Issue Date             | <i>2020-4-30</i>   |   |
| Additional information | <i>Energy Star, EPEAT, TCO,</i>                            |   |

| P7.1.1 Product environmental attributes       |   |                          |                            |                            |                            |         |
|---|---|--------------------------|----------------------------|----------------------------|----------------------------|---------|
| (d)   | year of manufacture:  |                          |                            | <i>2020</i>                |                            |         |
| (e)   | <b>Etec value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are disabled</b> and if the system is tested with switchable graphics mode with UMA driving the display. |                          |                            |                            |                            |         |
| (f)   | <b>Etec value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are enable</b>   |                          |                            |                            |                            |         |
|   |   | Category A               | Category B                 | Category C                 | Category D                 |         |
|   |   | (according to ErP Lot 3) | (according to ErP Lot 3)   | (according to ErP Lot 3)   | (according to ErP Lot 3)   |         |
| capability adjustments applied during testing | Memory over base [GB]   |                          | <i>64</i>                  |                            | <i>64</i>                  |         |
|   | Additional internal storage   | (Yes / No)               | <i>Yes</i><br>(Yes / No)   | (Yes / No)                 | <i>Yes</i><br>(Yes / No)   |         |
|   | Discrete television tuner   | (Yes / No)               | <i>Yes</i><br>(Yes / No)   | (Yes / No)                 | <i>Yes</i><br>(Yes / No)   |         |
|   | Discrete Audio Card   | (Yes / No)               | <i>No</i><br>(Yes / No)    | (Yes / No)                 | <i>No</i><br>(Yes / No)    |         |
|   | Discrete graphics Card(s) [number / #]  | (Yes / No) #:            | <i>No</i> #:<br>(Yes / No) | (Yes / No) #:              | <i>No</i> #:<br>(Yes / No) |         |
|   | Category of discrete graphics Card(s)   |                          | <i>No</i>                  |                            | <i>No</i>                  |         |
| Test results                                  | <b>Etec Value (kWh) - dGfx disabled</b><br>all discrete graphics cards (dGfx) are <b>disabled</b> /<br>UMA is active for switchable graphics/<br>product has no graphics cards (dGfx)   |                          | <i>31.05</i>               |                            | <i>33.66</i>               |         |
|   | <b>Etec Value (kWh) - dGfx enabled</b><br>all discrete graphics cards (dGfx) are <b>enabled</b>   |                          |                            |                            |                            |         |
| (g)   | Idle state power demand (Watts);  |                          |                            | <i>7.54</i><br><i>8.32</i> |                            |         |
| (h)   | Sleep mode power demand (Watts);  |                          |                            | <i>1.87</i><br><i>1.98</i> |                            |         |
| (i)   | Sleep mode with WOL enabled power demand (Watts) (where enabled);   |                          |                            | <i>1.87</i><br><i>1.98</i> |                            |         |
| (j)   | Off mode power demand (Watts);  |                          |                            | <i>0.79</i><br><i>0.76</i> |                            |         |
| (k)   | Off mode with WOL enabled power demand (Watts) (where enabled);   |                          |                            | <i>0.23</i><br><i>0.23</i> |                            |         |
| (l)   | Internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):   | 10%                      | 20%                        | 50%                        | 100%                       | Average |

|       |   |   |
|-------|---|---|
| (m)   | External power supply efficiency (if applicable)*:<br>Average active efficiency:<br><b>ADP-65ME, 91.94%</b><br><b>A19-065N2A, 88.7%</b><br><b>ADP-90ME, 89.93%</b><br><b>PA-1900-74FS, 88.61%</b><br><b>A19-090P3A, 89.87%</b><br><b>ADP-135JB, 90.5%</b><br><b>PA-1131-72, 90.11%</b><br><b>ADP-170CB, 91.39%</b><br><br>*internal note: show values for all available external power supplies |   |
| (o)   | Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):   | N/A   |
| (p-1) | Measurement methodology used to determine information mentioned in points (l) – internal PSU efficiency:  | N/A   |
| (p-2) | Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:  | Erp Lot7  |
| (p-3) | Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries:   | N/A   |
| (p-4) | 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 Ed. 1.0, 2012-10  |
| (q)   | Sequence of steps for achieving a stable condition with respect to power demand:  | Based on Energy Star Computer V8/Power on->Wait 5 minutes->Stable condition(Short idle) |
| (r)   | Description of how sleep and/or off mode was selected or programmed:  | Based on user manual  |
| (s)   | Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:   | Based on user manual  |
| (t)   | <b>Duration of idle state condition before the computer automatically reaches sleep mode</b> , or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes):   | 25  |
| (u)   | <b>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</b> (in minutes):  | N/A   |
| (v)   | <b>Length of time before the display sleep mode is set to activate</b> after user inactivity (in minutes):  | 10  |
| (w)   | Information on the energy-saving potential of power management functionality:   | N/A   |
| (x)   | User information on how to enable the power management functionality:   | Refer to User Guide   |
| (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:<br><br><b>230V/50Hz</b>   |   |

| Instr. Code | Instrument I.D. | Instrument Type | Range Used Or ***         | Make and Model **             | Calibration Date |            |
|-------------|-----------------|-----------------|---------------------------|-------------------------------|------------------|------------|
|             |                 |                 |                           |                               | Last             | Due        |
| --          | A09             | AC Power Source | 1~280VAC;1~55 0HZ;1000VA. | NF;EC1000S; SN:9152124        | 2019-08-29       | 2020-08-28 |
| --          | B64             | Digital Watch   | Full range                | CASIO; HS-70W; SN:107Q03R     | 2019-09-09       | 2020-09-08 |
| --          | B100            | power Meter     | 0~600V;0~20A              | YOKOGAWA;WT310;SN: C2RD07008V | 2019-08-29       | 2020-08-28 |
| --          | C18             | Ambient Monitor | -10~60°C /0~100%RH        | Testo;622;SN:39504298/ 305    | 2019-09-11       | 2020-09-10 |

|   |   |                               |     |
|---|---|-------------------------------|-----|
| <b>Additional Notebook Battery Information:</b> |   |                               |     |
|   | Battery[ies] <b>not</b> user replaceable<br>The battery[ies] in this product cannot be easily replaced by users themselves. <sup>1)</sup> | Battery[ies] user replaceable | n/a |



|                               |                          |                          |                                     |
|-------------------------------|--------------------------|--------------------------|-------------------------------------|
| Internal/built-in Battery     | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| External/detachable Battery   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Bios Backup Battery           | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Other:                        | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>Additional information</b> |                          |                          |                                     |
|                               |                          |                          |                                     |
|                               |                          |                          |                                     |
|                               |                          |                          |                                     |

1)

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

Акумуляторната[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.

Il-batterija/batteriji f'dan il-prodott ma tistax/jistghux 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 ușor înlocuită (înlocuite) de utilizatorii înșiși.

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 käytäjän vaihdettavissa.

Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.

Bu üründe ki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.