

PIRKIMO SĄLYGŲ PRIEDAS NR. 2 „PASIŪLYMO FORMA“

PLANŠETINIŲ KOMPIUTERIŲ PIRKIMAS

Kam: VšĮ „Vaivorykštės tako“ gimnazijai

2019- 07 - 30 _

Tiekėjo pavadinimas / ūkio subjektų grupės nariai:	UAB Biuro technikos projektai
Tiekėjo kodas:	300578021
Tiekėjo adresas:	Taikos pr. 24-222, Klaipėda
Asmens atsakingo už pasiūlymą vardas, pavardė:	Rimas Venslovaitis
Asmens atsakingo už pasiūlymą telefono numeris:	380101
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Pasirašyti pirkimo sutartį įgaliojtas asmuo	r.venslovaitis@btpro.lt

I. Bendrieji reikalavimai:

1. Tiekėjas privalo nurodyti įkainius visiems toliau išvardintiems pirkimo objektams. Jei tiekėjas nenurodo įkainio, laikoma, kad tiekėjas įsipareigojo pirkimo objektą tiekti neatlygintinai.
2. Teikdami pasiūlymą sutinkame su visais pirkimo sąlygų reikalavimais. Visos siūlomos prekės be jokių išlygų atitinka pirkimo sąlygų techninės specifikacijos reikalavimus. Pasiūlymas galioja 90 dienų nuo pasiūlymų pateikimo termino pabaigos.

II. Siūlomos kainos:

Eil. Nr.	Pirkimo objektas	Mato vienetas	Kiekis	Kaina, Eur be PVM	Suma Eur, be PVM
1	Planšetiniai kompiuteriai	Vnt.	64	363,99	23.295,36
Bendra kaina, Eur be PVM:					23.295,36
* Tais atvejais, kai pagal galiojančius teisės aktus tiekėjui nereikia mokėti PVM, tiekėjas privalo su pasiūlymu pateikti laisvos formos raštą dėl PVM netaikymo pagrindo.					
		PVM tarifas (%)	21,00	PVM suma, Eur:	4.892,03
Bendra kaina, Eur su PVM*					28.187,39

Pasiūlymo priedai:

Dokumento pavadinimas	Lapų skaičius	Dokumentas yra konfidencialus? Taip / Ne
Įgaliojimas pateikti pasiūlymą (jei taikoma)		
Jungtinės veiklos sutarties kopija (jei taikoma)		
Pasiūlymo galiojimo užtikrinimas		
Kita		

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Numatomi pasiteikti subteikėjai (jei numatoma):

Subteikėjo pavadinimas ir kodas	Perduodama veikla	Apimtis nuo visos pirkimo sutarties vertės

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(Tiekėjo arba jo įgalioto asmens
pareigų pavadinimas)

(parašas)



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(Vardas ir pavardė)

1.	Nešiojamas planšetinis kompiuteris Lenovo 300e 2nd Gen		
2.	Procesoriaus našumas	Ne mažiau kaip keturių branduolių, x86-64 architektūros, turi palaikyti 32 ir 64 bitų operacines sistemas ir taikomas programas. Procesoriaus našumas turi būti ne mažesnis kaip 2400 pagal Passmark CPU Mark. Siūlomo procesoriaus našumo parametras turi būti skelbiamas http://www.cpubenchmark.net/cpu_list.php . Procesorius palaikyti automatinę maitinimo įtampos reguliavimo funkciją esant mažai apkrovai. Procesoriaus sparta negali būti dirbtinai padidinta.	Intel N5000 1,1GHz. Keturių branduolių, x86-64 architektūros, palaiko 32 ir 64 bitų operacines sistemas ir taikomas programas. Procesoriaus našumas 2436 pagal Passmark CPU Mark. Siūlomo procesoriaus našumo parametras skelbiamas http://www.cpubenchmark.net/cpu_list.php . Procesorius palaiko automatinę maitinimo įtampos reguliavimo funkciją esant mažai apkrovai. Procesoriaus sparta nėra dirbtinai padidinta.
3.	Operatyvioji atmintis	Ne mažesnė kaip 4GB LPDDR4/DDR4 2133Mhz.	4GB LPDDR4 2133Mhz.
4.	Diskinė talpa	Vidinė, ne mažesnė kaip 128GB eMMC arba lygiavertė.	128GB eMMC
5.	Garso sistemos	Integruotas audio įrenginys, stereo garsiakalbiai, integruotas mikrofonas.	Taip
6.	Vaizdo plokštė	Integruota.	Taip
7.	Bevielis ryšys	IEEE 802.11 n/ac standarto bevielio tinklo modulis palaikantis MU-MIMO technologiją, turintis integruotas į korpusą antenas. Bluetooth 4.2 arba naujesnis modulis.	IEEE 802.11 n/ac standarto bevielio tinklo modulis palaikantis MU-MIMO technologiją, turintis integruotas į korpusą antenas. Bluetooth 5.0 modulis.
8.	Klaviatūra	Integruota į korpusą apsauganti nuo apliejimo vidinius kompiuterio komponentus.	Integruota į korpusą apsauganti nuo apliejimo vidinius kompiuterio komponentus.
9.	Pelės funkcija	Jutiklinė (angl. <i>Touchpad</i>) vientisa, be atskirų pelės klavišų.	Taip
10.	Ekranas	Įstrižainė 11,6-14", neblizgaus paviršiaus, lietimui jautrus ekranas, IPS matrica, raiška ne mažesnė kaip 1366x768 (HD). Integruota ne mažiau nei HD kamera. Komplekte turi būti pridėtas specialus aktyvus rašiklis (angl. active pen) ir rašiklio laikiklis.	Įstrižainė 11,6" neblizgaus paviršiaus, lietimui jautrus ekranas, IPS matrica, raiška 1366x768 (HD). Integruota 5MP kamera. Komplekte yra pridėtas specialus aktyvus rašiklis (angl. active pen) ir rašiklio laikiklis.
11.	Integruoti įvesties/išvesties prievadai	ne mažiau kaip: 1 vnt. vidinis integruotas arba išorinis USB microSD atminties kortelių skaitytuvas; 1 vnt. ausinių – mikrofono kombinuota jungtis; 2 vnt. USB 3.0 1 vnt. HDMI;	1 vnt. vidinis integruotas arba išorinis USB microSD atminties kortelių skaitytuvas; 1 vnt. ausinių – mikrofono kombinuota jungtis; 3 vnt. USB 1 vnt iš jų Type-C su kompiuterio įkrovimo funkcija); 1 vnt. HDMI;

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		Visi išvardinti prievadai turi būti integruoti, t.y. negalima naudoti papildomų adapterių reikalaujamų prievadų išpildymui.	Visi išvardinti prievadai yra integruoti, nenaudoti papildomi adapteriai reikalaujamų prievadų išpildymui.
12.	Apsaugos galimybės	Įjungimo slaptažodis, konfigūravimo slaptažodis; integruota TPM duomenų apsaugos mikroschema.	Taip
13.	Baterija	Li-Ion arba Li-Polymer arba lygiavertė baterija, ne mažiau nei 42Wh talpos, deklaruojama bendra darbo trukmė pagal MobileMark 2014 testą yra 10h.	Li-Ion baterija, 42Wh talpos, deklaruojama bendra darbo trukmė pagal MobileMark 2014 testą yra 10h.
14.	Sistemos atkūrimo priemonės	Turi būti kompiuterio gamintojo programinės įrangos CD komplektas operacijų sistemai ir tvarkyklėms kompiuteryje atkurti arba turi būti paslėptas disko skirsnis šiai funkcijai realizuoti arba lygiaverčių atstatymo priemonių funkcionalumas.	Taip
15.	Svoris ir aukštis	Kompiuterio svoris siūlomoje konfigūracijoje ne didesnis kaip 1,5kg, aukštis ne daugiau 25 mm.	Svoris 1,31 kg., aukštis 21 mm
16.	Kompiuterio surinkimo reikalavimai	Visos siūlomo kompiuterio pagrindinės dalys (pagrindinė plokštė, operatyvioji atmintis, maitinimo šaltinis, baterija) turi būti pagamintos vieno gamintojo.	Taip
17.	Ekologija ir utilizavimas	Kompiuteris turi atitikti Lietuvos Respublikos aplinkos ministro 2011 m. birželio 28 d. įsakymo Nr. D1-508 priedo 7 dalies išplėstinius reikalavimus aplinkos apsaugai. <u>Privaloma pateikti tai įrodančius dokumentus.</u>	Taip
18.	Kokybės reikalavimai	Kompiuteris turi būti sertifikuotas EPEAT Silver ir RoHS reikalavimams. <u>Privaloma pateikti tai įrodančius dokumentus.</u>	Taip
19.	Komplektuojamas su programine įranga	MS Windows 10 Pro Academic arba MS Windows 10 Pro, arba lygiavertė.	MS Windows 10 Pro Academic
20.	Kompiuterių įranga turi būti suderinama darbui su šiomis operacinėmis	Microsoft Windows 10; informacija apie suderinamumą turi būti pateikta oficialiose programinės įrangos gamintojo interneto svetainėse (būtina nurodyti tikslią nuorodą) arba <u>įrodoma pateikiant oficialų raštą iš siūlomos įrangos gamintojo.</u>	Taip

	sistemomis		
21.	Kompiuterio konstrukcija	Kompiuteris paruoštas darbui edukacinėje veikloje. Sustiprinti ekrano vyriai (atsilenkiantys 360°) ir visi integruoti prievadai. Kompiuteris turi būti sertifikuotas MIL-STD-810G arba lygiavėčiu sertifikatu.	Taip
22.	Valdymo ir administravimo sistema	Kompiuterio gamintojo parengta valdymo ir administravimo programinė įranga, kuri rodytų kompiuterio modelį ir serijos numerį, siųstų siūlomo kompiuterio tvarkykles ir jų atnaujinimus. Taip pat nurodyti kompiuterio gamintojo interneto svetainę, iš kurios būtų galima parsisiųsti siūlomo kompiuterio tvarkykles ir jų atnaujinimus.	Taip
23.	Papildoma programinė įranga	Turi būti įdiegta programinė įranga leidžianti visus nešiojamus kompiuterius sujungti į vieną klasę (padaryti virtualios klasės kompiuteriais). Pagrindinio klasės kompiuterio (Mokytojo kompiuterio) pagalba turi būti galimybė klasėje esančius kompiuterius valdyti - įjungti/išjungti, matyti ir valdyti mokinių kompiuteriuose atliekamus darbus, uždrausti naudotis internetiniais tinklais. Turi būti galimybė siųsti žinutes iš pagrindinio kompiuterio (Mokytojo kompiuterio) į mokinio kompiuterį. Turi būti galimybė vieno klasės kompiuterio ekrano informaciją pateikti visiems mokinių kompiuteriams.	Taip
24.	Kiti reikalavimai	Įrangos gamintojas turi garantuoti jo gamyklinės programinės įrangos, BIOS atnaujinimų, tvarkyklių prieinamumą įrangos vartotojui (nurodyti gamintojo interneto svetainę ar kitą būdą, užtikrinantį šios sąlygos įvykdymą). Tiekėjas privalo nurodyti siūlomos kompiuterių technikos įmonės gamintojos pavadinimą, kompiuterio modelį, pateikti brošiūrą arba interneto svetainės adresą, kur būtų pateiktos išsamios siūlomų produktų specifikacijos.	Taip
25.	Garantinis laikotarpis priežiūra	Visai įrangai suteikiama ne trumpesnė kaip 36 mėnesių garantija. Siūlomos įrangos techninė priežiūra turi būti atliekama tik įrangos gamintojo sertifikuotuose techninės priežiūros centruose.	Visai įrangai suteikiama 36 mėnesių garantija. Siūlomos įrangos techninė priežiūra atliekama tik įrangos gamintojo sertifikuotuose techninės priežiūros centruose. Įrangos tiekėjas sudaręs sutartį dėl priežiūros su gamintojo autorizuotu priežiūros centru.

	Įrangos tiekėjas privalo gamintojo autorizuotą priežiūros centrą arba turi būti sudaręs sutartį dėl priežiūros su gamintojo autorizuotu priežiūros centru (<u>būtina pateikti tai įrodančius dokumentus</u>). Pateikti internetinės gedimų/problemyų registravimo ir kontrolės sistemos aprašymą ir nuorodą į tiekėjo interneto svetainę, kartu, jeigu tai yra būtina, prisijungimo kodus, kad pirkėjas galėtų įsitikinti sistemos veikimo funkcionalumu.	Pateikti internetinės gedimų/problemyų registravimo ir kontrolės sistemos aprašymą ir nuorodą į tiekėjo interneto svetainę, kartu, jeigu tai yra būtina, prisijungimo kodai, kad pirkėjas galėtų įsitikinti sistemos veikimo funkcionalumu.
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Techninėje specifikacijoje galimai nurodyti (jei yra) konkretus modelis ar tiekimo šaltinis, konkretus tiekėjo tiekiamoms prekėms ar teikiamoms paslaugoms, ar prekių ženklas, patentas, tipai, konkreti kilmė ar gamyba, jie laikytini tik informacinio pobūdžio ir tiekėjas nėra įpareigotas siūlyti ir/ar naudoti šių gamintojų produkciją, o standartai gali būti taikomi lygiaverčiai nurodytiems.

Dokumentų sąrašas reikalaujamas konkurso sąlygose:

Ekologijos ir utilizavimo deklaracija:

https://static.lenovo.com/ww/docs/regulatory/Lenovo_300e_2nd_Gen.pdf

https://static.lenovo.com/ww/docs/regulatory/PCF_Lenovo_300e_2nd_Gen.pdf

Kokybės reikalavimų sertifikatai:

<http://psref.lenovo.com/syspool/Sys/PDF/Lenovo%20Laptops/Lenovo%20300e%20Windows%202nd%20Gen/Lenovo%20300e%20windows%202nd%20Gen%20Platform%20Specification.pdf>

Kompiuterių suderinamumas darbui su operacinėmis sistemomis sąrašas:

<https://support.lenovo.com/lt/en/solutions/ht508488>

Bios ir tvarkyklių atsisiuntimas/atnaujinimas:

[https://pcsupport.lenovo.com/lt/en/products/laptops-and-netbooks/300-series/300e-windows-2nd-gen/downloads?linkTrack=Caps%3ABody_SearchProduct&searchType=3&keyWordSearch=300e%20Windows%202nd%20Gen%20Notebook%20\(Lenovo\)](https://pcsupport.lenovo.com/lt/en/products/laptops-and-netbooks/300-series/300e-windows-2nd-gen/downloads?linkTrack=Caps%3ABody_SearchProduct&searchType=3&keyWordSearch=300e%20Windows%202nd%20Gen%20Notebook%20(Lenovo))

Garantinis aptarnavimas:

<https://www.servicenet.lt/?lang=en>

<http://www.servisaict.lt/>

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THE ECO DECLARATION



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

Annex B2 - Product environmental attributes Notebooks and Tablets

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	
Company name *	Lenovo	
Contact information * e-mail address	Lenovo Global Environmental Affairs Alvin L Carter 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/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 *	Lenovo 300e Windows 2nd Gen
Model number *	81M9
Issue date *	2018-12-14
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 *	81M9	Logo	
Issue date *	2018-12-14		

Product environmental attributes - Legal requirements		Requirement 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)	☒	☐	
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), hydrochlorofluorocarbons (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).	☒	☐	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	☒	☐	☐
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/environment.html	☒	☐	☐
P2	Batteries			
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)	☒	☐	☐
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	☒	☐	☐
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	☒	☐	☐
P3	Conformity verification & Eco design (ErP)			
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 (add link or e-mail address): http://www.lenovo.com/social_responsibility/us/en/ec_doc_notebooks/	☒	☐	☐
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, cadmium and hexavalent chromium by weight of these together.	☒	☐	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	☒	☐	☐
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	☒	☐	☐
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	☒	☐	☐

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

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Model number *	81M9	Logo			
Issue date *	2018-12-14				

Product environmental attributes - Market requirements (See General NOTE GN below)				
- Environmental conscious design		Requirement 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.	☒	☐	☐
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	☒	☐	☐
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	☒	☐	☐
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	☒	☐	☐
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	☒	☐	☐
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	☒	☐	☐
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): Material type: PC/ABS Material type: Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.	☐	☒	☐
P7.13	Insulation materials of internal electrical cables are PVC free.	☐	☒	☐
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.	☐	☒	☐
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)	☐	☒	☐
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: >PC+ABS-TD15FR(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: Brominated epoxy resin . CAS #: 26265-08-7 Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: FR(16)	☒	☐	☐
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: BPADP , CAS #: 181028-79-5 (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 assigned the following Risk phrases; and Hazard statements: 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): 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 2.6% . or b) The weight of recycled material is 12.32g .	☒	☐	☐

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	81M9	Logo	
Issue date *	2018-12-14		
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): If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g.			☐ ☒ ☐
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg			☒ ☐ ☐
P8 Batteries				
P8.1*	Battery chemical composition: <u>Lithium Ion</u>			☐
P9 Energy consumption (See NOTE B8)				
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 *
Peak (On-max)	12.9 W	12.9 W	13.356 W	Full load
Category I1-				
Short Idle State - WOL Enabled	3.8 W	3.9 W	3.9 W	Use for ENERGY STAR V7.1 registration (P_{idle})
Long Idle State - WOL Enabled	2.4 W	2.3 W	2.4 W	Use for ENERGY STAR V6 registration (P_{idle})
Sleep (S3) - WOL Disabled	0.4 W	0.4 W	0.4 W	Reference
Off (S5) - WOL Disabled	0.3 W	0.3 W	0.3 W	Use for ErP
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.02 W	0.02 W	0.07 W	
PTEC *	20.49 W	20.49 W	20.49 W	☒
Typical Energy Consumption				
ETEC *	13.97 kWh/year	14.14 kWh/year	14.15 kWh/year	☒
Annual Energy Consumption				
P_{off} : Off Mode(S5) - WOL Enabled; P_{sleep} : Sleep Mode(S3) - WOL Enabled; P_{idle} : Idle State - WOL Enabled				
External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: VI				
Display resolution *: 1366*768 megapixels				
Default time to enter energy save mode: 30 minutes				
P9.2*	Information about the energy save function is provided with the product.			☐ ☐ ☐
P9.3	Energy efficiency class (monitors only):			☒
P10 Emissions				
Noise emission – Declared according to ISO 9296 (See NOTE B9)				
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)	
	Idle	* System Idle	* 17.5	
	Operation	* CPU; Operation	* 17.6	
	Other mode	Declared A-weighted sound pressure level (dB) L_{pAm}	(operator position desktop – idle)	
	Other mode	Declared A-weighted sound pressure level (dB) L_{pAm}	(operator position desktop – operating)	
Measured according to: ☒ ISO 7779 ☐ ECMA-74 ☐ 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 *	81M9		Logo		
Issue date *	2018-12-14				

Product environmental attributes - Market requirements (continued)			Requirement met		
Item			Yes	No	n.a.
Electromagnetic emissions					
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):		☐	☐	☒
P12 Ergonomics for computing products					
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.		☒	☐	☐
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): carton weight (kg): 0.254 Product packaging material type(s): paper weight (kg): 0.008 Product packaging material type(s): EPE weight (kg): 0.049				
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: 90%				☐
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: 7.1 Date: 2018-12-14 Product category: I1 Eco-label: Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category:				
P15 Additional information (See NOTE B10)					
P9	Energy consumption of specific configuration may vary; description of the tested product configuration: 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 Notebooks & Tablet Computers for the latest information: http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&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	Lenovo 300e Windows 2nd Gen	Logo 
Model Number	81M9	
Issue Date	2018-12-14	
Additional information		

P7.1.1 Product environmental attributes

(d) Year of manufacture:

2018

(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) are 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)
capability adjustments applied during testing	Memory over base [GB]	8GB			
	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)
	Discrete graphics Card(s) [number / #]	NO #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)
	Category of discrete graphics Card(s)				
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)	14.15			
	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enable				

(g)	Idle state power demand (Watts);	3.9
(h)	Sleep mode power demand (Watts);	2.4
(i)	Sleep mode with WOL enabled power demand (Watts) (where enabled);	
(j)	Off mode power demand (Watts);	0.3
(k)	Off mode with WOL enabled power demand (Watts) (where enabled);	
(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)*: Average active efficiency: 89.42%,88.77%,89.44%,88.37%,87.49%,88.45% *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):	300
(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: ENERGY STAR® Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power Supplies Eligibility Criteria (Version 2.0)																		
(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: ≥70% of Cmin																		
(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																		
(q)	Sequence of steps for achieving a stable condition with respect to power demand:: Power on -> Wait 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																		
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: NA																		
(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): 30min																		
(u)	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): NA																		
(v)	Length of time before the display sleep mode is set to activate after user inactivity (in minutes): 10min																		
(w)	Information on the energy-saving potential of power management functionality: Refer to User Guide																		
(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: 230V50HZ-2%-Edition 2.0, 2011-01, Section 4, IEC62301																		
Additional Notebook Battery Information:																			
	<table><tr><td>Battery[ies] not user replaceable</td><td>Battery[ies] user replaceable</td><td>n/a</td></tr><tr><td>The battery[ies] in this product cannot be easily replaced by users themselves. ¹⁾</td><td></td><td></td></tr><tr><td>Internal/built-in Battery</td><td>☒</td><td>☐</td></tr><tr><td>External/detachable Battery</td><td>☐</td><td>☐</td></tr><tr><td>Bios Backup Battery</td><td>☐</td><td>☐</td></tr><tr><td>Other:</td><td>☐</td><td>☐</td></tr></table>	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/built-in Battery	☒	☐	External/detachable Battery	☐	☐	Bios Backup Battery	☐	☐	Other:	☐	☐
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/built-in Battery	☒	☐																	
External/detachable Battery	☐	☐																	
Bios Backup Battery	☐	☐																	
Other:	☐	☐																	
Additional information																			

1)

The battery[ies] in this product cannot be easily replaced by users themselves.
 Аккумуляторната[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.
 Bruçeren 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[ς] 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/iġu 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.
 Batéria(-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 käytettäjän vaihdettavissa.
 Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.
 Bu üründe ki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.

Lenovo Product Carbon Footprint (PCF) Information Sheet

PC/Notebook/Monitor/Tablet

Commercial Name	Lenovo 300e Windows 2nd Gen	
Model Number	81M9	
Issue Date	2018-12-26	

Product Environmental Attributes																							
(a) Product Carbon Footprint Value:	242 kg of CO ₂ e (see Note 1 below)																						
(b) Product Picture:	(c) Life Cycle Detail by Component & Life Stage (Pie Chart):																						
	<table border="1"> <caption>Life Cycle Detail by Component & Life Stage (Pie Chart)</caption> <thead> <tr> <th>Component / Life Stage</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Display</td> <td>36%</td> </tr> <tr> <td>Mainboard and other boards</td> <td>17%</td> </tr> <tr> <td>Use</td> <td>21%</td> </tr> <tr> <td>Power Supply</td> <td>9%</td> </tr> <tr> <td>Battery</td> <td>3%</td> </tr> <tr> <td>Transportation</td> <td>8%</td> </tr> <tr> <td>Chassis & Assembly</td> <td>5%</td> </tr> <tr> <td>Hard Drive</td> <td>0%</td> </tr> <tr> <td>EoL</td> <td>1%</td> </tr> <tr> <td>Packaging</td> <td>0%</td> </tr> </tbody> </table>	Component / Life Stage	Percentage	Display	36%	Mainboard and other boards	17%	Use	21%	Power Supply	9%	Battery	3%	Transportation	8%	Chassis & Assembly	5%	Hard Drive	0%	EoL	1%	Packaging	0%
Component / Life Stage	Percentage																						
Display	36%																						
Mainboard and other boards	17%																						
Use	21%																						
Power Supply	9%																						
Battery	3%																						
Transportation	8%																						
Chassis & Assembly	5%																						
Hard Drive	0%																						
EoL	1%																						
Packaging	0%																						

Note 1:

All estimates of carbon footprint are uncertain. Lenovo reports the 95th percentile of the carbon footprint estimate to reflect that uncertainty. For this product, that estimate has a mean of 179 kg of CO₂e and standard deviation of 36 kg of CO₂e. For a quantity that follows a normal distribution, the 95th percentile value is equal to the mean plus the standard deviation multiplied by 1.64. Other organizations might report this value as 179 +/- 36 kg of CO₂e.

This PCF was generated using the Product Attribute to Impact Algorithm model, Version 2018-12-26, Date: 2018-12-26 (Product Type: Notebook), © Massachusetts Institute of Technology's Materials Systems Laboratory, August 2012. Please refer to the Intended Uses and Limitations of the PAIA Model, © Massachusetts Institute of Technology's Materials Systems Laboratory, August 2012 for further details. [Link to Document](#)

This calculation was based upon a **Lenovo 300e Windows 2nd Gen** with the assumptions and configuration described in the calculation assumptions in the next page.

This pie chart provides the percent contribution of the mean value for each element of the analysis for the full life cycle CO₂e impacts of the product. Individual elements displaying 0% are less than 0.5%.

Lenovo Product Carbon Footprint (PCF) Information Sheet



Assumption Table					
Category	Element	Unit	Input	Mean	COV
Product Specifics	Product Weight	kg	Input	1.311	Primary Data
	Form Factor	no unit			
	Screen Size	inches	11.6		
	Product Lifetime	years	Input	5	Low COV
Location	Assembly Location	no unit	CN		
	Use Location	no unit	EU		
Transportation from Assembly to Customer	To country of use: by air	fraction	Input	0.3	Low COV
	To country of use: by ship	fraction	Input	0.6	Low COV
	To country of use: by rail	fraction	Input	0.1	
	To country of use: by truck	fraction			
	In country of use: by air	fraction	Input	0	Low COV
	In country of use: by ship	fraction			
	In country of use: by rail	fraction	Input	0	Low COV
	In country of use: by truck	fraction	Input	1	Low COV
End of Life	Fraction Recycled (remainder to landfill)	fraction	0.8		
	Fraction Shredded Recycling (remainder to manual)	fraction	0.77		

The PCF value is calculated using the specific attributes above for assembly, use and transportation mode. If you need any other country specific information, please contact environment@lenovo.com.

Notes:

Life cycle phases included in the streamlined Product Attribute to Impact Algorithm (PAIA) Life Cycle Analysis (LCA) can be grouped into four categories which include Manufacture, Transport, Use, and End of Life. Below is a brief description of each phase.

Manufacture: This life cycle phase captures emissions generated during the extraction, production, and transport of raw materials, the manufacture of components and subassemblies (including the product packaging) and product assembly.

Transport: Emissions included in the transport phase include all those generated during the air, ocean or land transport of finished or semi-finished Lenovo products between Lenovo facilities and from Lenovo facilities to customers.

Use: In use energy consumption is calculated in accordance with the U.S. Environmental Protection Agency's Energy Star® Typical Energy Consumption (TEC) methodology. Calculated energy consumption is then used in combination with average emissions factors for the designated country of use to calculate emissions.

End of Life: It is assumed that a designated portion of the product (see table above) is recycled at the end of the use period determined in the TEC methodology. It is also assumed that the balance of the product waste materials is disposed of by landfill. Emissions generated during the mechanical destruction, separation and transport of end of life materials are included in the calculation.

Product scope of this sheet includes desktop computer, integrated desktop computer, notebook computer, monitor and tablet. This document is only valid in connection with "THE ECO DECLARATION" of the specific product.

Lenovo 300e Windows 2nd Gen Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron® Processor or Intel Pentium® Silver Processor									
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Frequency	Cache	Memory Type	Processor Graphics		
	Cel N4100				2.4 GHz			Intel UHD Graphics 600		
		4	4	1.1 GHz		4MB	LPDDR4 2133	Intel UHD Graphics 605		
	Pen N5000				2.7 GHz					
Graphics	Intel UHD Graphics 600 or 605 in processor									
Chipset	Intel SoC (System on Chip) platform									
Memory	8GB max / 2133MHz LPDDR4 / soldered to systemboard, no sockets									
Display	11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, IPS Support 10 fingers									
Multi-touch	Optional Lenovo Active Pen support									
Active pen										
Storage	eMMC 5.1 (embedded Multi Media Card) flash memory or M.2 SSD on board									
Optical	None									
Ethernet	None									
WLAN	Intel 9560, Wi-Fi 2x2 802.11ac + BT5.0, M.2 card									
WWAN	None									
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									
Dimensions	WXDxH: 11.42" x 8.03" x 0.82", 290mm x 204mm x 20.85mm									
Weight	1.31 kg (2.9 lb)									
Case color	Black									
Case material	PC/ABS plastic									
Media reader	Ports									
	Micro SD Two USB 3.0 (one with Always-On charging), one Type-C USB 3.0 (with the functions of power delivery), combo audio jack, HDMI * Depending on many factors, actual data transfer speed may be lower than theoretical speed									
	Camera									
	720p HD, fixed focus, single microphone optional 5MP World Facing camera, single microphone Realtek ALC3287, Stereo speakers, 2Wx 2 /									
	Audio support									
Keyboard	single microphone, combo audio / microphone jack									
	Keyboard									
	6-row, spill-resistant, Anti-pry Key Caps									
	touchpad									
	One-piece touchpad									
Security	Power-on password, supervisor password, security keyhole									
Security chip	dTPM									
Fingerprint reader	None									
Battery type	Integrated Li-ion 42Wh battery									
Max battery life	Up to 10hrs * Battery life varies significantly with settings, usage, & other factors.									
AC adapter	45W USB Type-C AC adapter									
Preload	Some: Windows® 10 Pro in S mode Some: Windows 10 Pro (National Academic License) Some: Windows 10 Home									
Limited warranty	1-year repair service									
Mil-Spec test	MIL-STD-810G military testing									
Environment	EPEAT™ Silver, RoHS-compliant									

Lenovo
July 2019

Rimas Venslovaitis
Direktorius

Lenovo devices tested for Windows 10 version 1903 (May 2019)

Systems listed below have been tested for upgrade to Windows 10 May 2019 update (version 1903) from:

- Initial Windows 10 October update(version 1809)
 - Windows 10 April update (version 1803)
- Windows 10 Fall Creators Update (version 1709)
 - Windows 10 Creators Update(version 1703)

IdeaPad laptops

100-14IBD
100-15IBD
100E
100e 2nd Gen
100S-14IBR
110 Touch-15ACL
110-14AST
B110-14IBR
110-14IBR
110-14IKB
110-14ISK
110-15ACL
110-15AST
110-15IBR
110-15IBR Brazil
110-15IKB
110-15ISK
110-17ACL
110-17IKB
110-17ISK
300-14ISK
300-15ISK
300-15ISK Brazil
300-17ISK
300e 2nd Gen
300S-11IBR

CPU Benchmarks

Over 1,000,000 CPUs Benchmarked

Intel Pentium Silver N5000 @ 1.10GHz

Price and performance details for the Intel Pentium Silver N5000 @ 1.10GHz can be found below. This is made using thousands of **PerformanceTest** benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
 - The 2nd graph shows the value for money, in terms of the CPUMark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.

Intel Pentium Silver N5000 @ 1.10GHz + Compare

Average CPU Mark

Description: Intel UHD Graphics 605

Class: Laptop Socket: FCBGA1090

Clockspeed: 1.1 GHz

Turbo Speed: 2.7 GHz

No of Cores: 4

TDP Down: 4.8 W Typical TDP: 6 W³

Other names: Intel(R) Pentium(R) Silver N5000 CPU @ 1.10GHz

CPU First Seen on Charts: Q1 2018

CPUMark/\$Price: 15.13 Overall Rank: 1519

Last Price Change: \$161 USD (2017-10-01)

2436

Single Thread Rating: 1128

Samples: 125*

*Margin for error: Low

³Actual CPU performance may differ from the average depending on the CPU power/performance trade off specified by the vendor.