

## DELL Precision 7680 Intel® Core™ i7 i7-13850HX Mobile workstation 40.6 cm (16") Full HD+ 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: VPXP2

Product name: 7680

DELL Precision 7680. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13850HX. Display diagonal: 40.6 cm (16"), HD type: Full HD+, Display resolution: 1920 x 1200 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA RTX 2000 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey



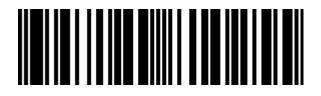




## Network Design Ethernet LAN data rates Product type \* Mobile workstation 10,100,1000 Mbit/s Product colour \* Grey Bluetooth Form factor Clamshell Ports & interfaces **Business** Market positioning USB 3.2 Gen 1 (3.1 Gen 1) Type-A 2 Introduction year 2023 ports quantity Intel<sup>®</sup> vPro<sup>™</sup> Platform Eligibility 1 USB 3.2 Gen 2 (3.1 Gen 2) Type-C 1 ports quantity Display Ethernet LAN (RJ-45) ports 1 Display diagonal \* 40.6 cm (16") HDMI ports quantity \* 1 Display resolution \* 1920 x 1200 pixels Thunderbolt 4 ports quantity 2 Touchscreen \* × Intel® Thunderbolt 4 1 Full HD+ HD type Combo headphone/mic port 1 Panel type WLED Charging port type DC-in jack LED backlight 1 Power adapter barrel connector 7.4 mm 16:10 Native aspect ratio Performance Anti-glare screen 1 500 cd/m<sup>2</sup> **Display brightness** Ambient light sensor 1 Pixel density 142 ppi Accelerometer 1 DCI-P3 Hall sensor RGB colour space 1 Colour gamut 100% Keyboard 60 Hz Maximum refresh rate Touchpad Pointing device Contrast ratio (typical) 1300:1 Keyboard language Belgian Processor Numeric keypad \* ∢ Processor manufacturer \* Intel Keyboard backlit 1 Processor family \* Intel® Core<sup>™</sup> i7 Keyboard number of keys 100 13th gen Intel® Core<sup>™</sup> i7 Processor generation Software Processor model \* i7-13850HX Operating system architecture 64-bit Processor cores 20 Operating system language Multilingual Processor threads 28 No Microsoft Office License Included Trial software 5.3 GHz Processor boost frequency 30 day Trial Offer Only Performance cores 8 Operating system installed \* Windows 11 Pro Efficient cores 12 **Processor special features** Performance-core Max Turbo 5.3 GHz Frequency Intel Flex Memory Access 1 Efficient-core Max Turbo Frequency 3.8 GHz Intel VT-x with Extended Page 1 Tables (EPT) Processor cache 30 MB CPU configuration (max) 1 Smart Cache Processor cache type

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| Bus typeDMI4Embedded options availableXConfigurable TDP-down45 WIntel Virtualization Technology for<br>Directed I/O (VT-d)Intel Virtualization Technology (VT-d)Maximum turbo power157 WIntel Virtualization Technology (VT-d)Intel Virtualization Technology (VT-d)Memory32 GBBattery technologyLithium-Ion (Li-lon)Internal memory typeDDR5-SDRAMBattery technologyLithium-Ion (Li-lon)Memory form factorCAMM moduleBattery capacity *83 WhMemory layout (slots x size)1 x 32 GBBattery voltage11.55 VMemory layout (slots x size)1 x 32 GBBattery voltage3 hMemory channelsDual-channelFast charging✓Non-ECC✓Power100 - 240 VTotal storage capacity *1 TBAC adapter nequery50 - 60 HzStorage media *SSDSSDAC adapter nequery9.23 AStorage media *SSDAC adapter output voltage100 - 240 VSSD capacity1 TBAC adapter output voltage19.5 VSSD instraled1AC adapter output voltage19.5 VSSD instraled1Cable lock slot✓SSD infactorM.2Cable lock slot✓SSD form factorM.2Cable lock slot✓SSD infactorM.2Cable lock slot✓SSD infactorM.2Cable lock slot✓SSD form factorM.2Cable lock slot✓SSD form factorM.2 </th <th>_</th> <th></th> <th></th> <th></th>   | _                              |                      |                                 |                      |
|--|--------------------------------|----------------------|---------------------------------|----------------------|
| Carlinguish TryPhoneSHA<br>SHA<br>Network 100 (VM                              | Processor                      |                      | Processor special features      |                      |
| breesers is a powerS WDirected is (Vr.d)VNamm burb power55 WNormal Wirkalarian TechnologyVMemory32 GBBatery Wirkalarian TechnologyWirkalarian technolyMemory form factor32 GBBatery Vallegi6Memory form factor500 MHzBatery vallegi33 MhMemory form factor500 MHzBatery vallegi1.5 S VMemory form factor1.8 2 GBBatery vallegi3.8 3 gMemory form factorJac GBBatery vallegi3.8 3 gMemory form factorJac GBAdapter frequency5.0 o H/zMemory form factorJac GBAdapter frequency5.0 o H/zMemory form factor1.8 GAAdapter frequency5.0 o H/zStorage media1.8 Calledie4.0 dapter frequency5.0 o H/zStorage frequency1.8 Calledie4.0 dapter frequency5.0 o H/zStorage media1.8 Calledie4.0 dapter frequency5.0 o H/zStorage frequency1.8 Calledie4.0 dapter frequency4.0 dapter frequencyStorage frequency1.8 Calledie4.0 dapter frequency4.0 dapter frequencyStorage frequency1.8 Calledie5.0 Sec Sec Sec Sec Sec Sec Sec Sec Sec Se  |                                |                      | •                               | ×                    |
| Number of Day  | -                              |                      |                                 | 1                    |
| number of up of the set of t                 | ·                              |                      |                                 |                      |
| Internal memory ************************************   | Maximum turbo power            | 157 W                |                                 | 4                    |
| internal memory*32 G8Battery technologyLikhum-ion (Li-lon)Merony tom fuch600 MHzBattery vachage6Merony tom fuchCAM moduleBattery vachage1.5 5 VMerony tom fuch2.8 G8Battery vachage1.5 5 VMaximum internal memory128 G8Fast char(ing)VNon-ECCVPort183 gStorageJack char(ing)30 g100 VNon-ECCVPort100 VStorageJack char(ing)100 V2.3 AStorageSDA charper proper (Not Vachage)100 - 240 VTotal Storage capacity1 TBA charper proper (Not Vachage)100 - 240 VStorageJack char(ing)100 - 240 V2.3 ANumber of SDs installed1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240 VSD (apocity)1 TBA charper proper (Not Vachage)100 - 240   | Memory                         |                      | Battery                         |                      |
| International problemDDBS SDRAMNumber of battery cells6Mernory love (Stor Suize)CAMM moduleBattery voltage31.55 VMernory love (Stor Suize)1.13 S C BBattery voltage31.55 VMaximum internal memory128 GBBattery voltage31.55 VMemory channels228 GBFast charging ince33.3 cNon-ECCVPerer70.00000000000000000000000000000000000  | Internal memory *              | 32 GB                | -                               | Lithium-lon (Li-lon) |
| Memory form factor<br>Memory fac   |                                | DDR5-SDRAM           |                                 |                      |
| Memoly jound lock salae)CAMM moduleBattery verifange in11.55 VMaximum internal memory128 G8Fast charging4Memory channelsDauk-channelBattery verifange4Non-ECCVPast180 WStorageTAC adapter inpuency50 - 64 Kr.Storage mediaSSD CancelAC adapter inpuency50 - 64 Kr.Storage mediaSSD CancelAC adapter output voltage100 - 240 VStorage mediaSSD CancelAC adapter output voltage100 - 240 VSSD Capacity178AC adapter output voltage100 - 240 VSSD CapacityCIE Express A.OCiele lock sileVSSD CapacityCIE Express A.OCiele lock sileVSSD form factorM2CCable lock sile StorageVConf radar integrateAC adapter output voltage10 - 240 VSSD form factorM2CCable lock sile StorageVSSD form factorM2CCable lock sile StorageVConf radar integrateM2CSmart carl randerVConf radar integrateSD SD S  |                                |                      | •                               |                      |
| Maximum internal memory128 GBBatter profuge time3 hMemory channelsDual-channelAMemory channelsJual-channelBattery weight383 gNon-ECCVVerrerStorage mediaSDAdaspter frequency50 - 60 hrzStorage mediaSDAC adapter input voltage100 - 240 VStorage mediaSDAC adapter input voltage100 - 240 VTotal storage capacityTBAC adapter output voltage100 - 240 VStorage mediaCable code kair voltage92.3 ASSD capacityTBAC adapter output voltage100 - 240 VSSD interfacePCE Express 4.0SecurityVerdageSSD form factorAC adapter output voltage100 - 240 VSSD form factorAC adapter output voltage120 SSSD form factorAC adapter output voltage20 SSSD form factorAC adapter output voltage20 SCard reader integratedACSmart card reader4Card reader integratedSD SDHC, SDXCTrusted Platform Module (TPM)4.0Compatible emory factorSO SDSHC, SDXCPressward prediction4.0Discrete graphics card memory6 BSorage realize humidity (HH)10.95%Discrete graphics card memory6 BSorage realize humidity (HH)10.95%On-board graphics card familyIntel GraphicsNon-operating distrut152.2.1068 MOn-board graphics card familyIntel GraphicsNon-operating distrut152.2.106   | -                              |                      | Battery voltage                 | 11.55 V              |
| Memory channelsDual-channelPade relayingZ<br>Battery weight383 g<br>383 gNon-BCCAccordBattery weight383 gStorage1TBAc dadpet requency50 - 60 HzStorage media *SSDAc dadpet requency50 - 60 HzStorage media *SSDAc dadpet requency50 - 20 HzStorage media *TBAc dadpet roquency control current9.23 ANumber of SSDs installed1Ac dadpet output current9.23 ANumber of SSDs installed1Ac dadpet output current9.23 ASSD capacity1 TBCable lock slot typeWedgeSSD form factorM2Cable lock slot typeWedgeSSD form factorM2Smart card reader/Card reader integratedVTrusted Platform Module (TPM)/Card reader integratedVTrusted Platform Module (TPM)/Compablic card model *NIDIA RTX 2000 AdaOperating temperature (TT)0.55 °CDiscrete graphics card model *Storage temperature (TT)0.55 °COn-badr graphics card model *VOperating temperature (TT)0.055 °COn-badr graphics card model *Non-operating altitute humidity (HH)1.52 - 3048 millitaDiscrete graphics card model *Hell & UH GraphicsNon-operating altitute humidity (HH)1.52 - 3048 millitaDiscrete graphics card model *Intel & UH GraphicsNon-operating altitute humidity (HH)1.52 - 3048 millitaOn-badr graphics card model *Non-operating altitute humidi  |                                |                      | Battery recharge time           | 3 h                  |
| Non-ECCReturn yeager.39 gaugeStorageTBAcadapter power180 WStorage media*178AC adapter frequency50-folh /2Storage media*178Ac adapter inquivo tvalage100 - 240 VTotal storage capacity178Ac adapter output voltage100 - 240 VNumber of SSD isstaled1Ac adapter output voltage100 - 240 VSSD isstaled1SSD isstaled1100 - 240 VCard readerVMarce11SSD isstaled1SSD isstaled11SSD isstaled1SSD isstaled111SSD isstaled1SSD isstaled111SSD isstaled1SSD isstaled111SSD isstaled1SSD isstaled111SSD isstaled1SSD isstaled1111SSD isstaled <t< td=""><td></td><td></td><td>Fast charging</td><td>4</td></t<>  |                                |                      | Fast charging                   | 4                    |
| StorageAC adapter power180 WTotal storage capacity17BAC adapter frequency50 - 60 HzStorage media *S50AC adapter input voltage10.2 Adu VStorage Storage Media *17BAC adapter unput vortage19.2 VNumber of SSDs installed1AC adapter output current9.23 ANumber of SSDs installed1AC adapter output current9.2 NSSD capacity17BCable lock slot type9.5 VSSD form factorM.2Cable lock slot typeWedgeSSD form factorM.2Cable lock slot typeWedgeCarl reader integrated✓Trusted Platform Module (TPM)<br>version Module (TPM)2.0Carl reader integrated✓Storage media type2.0Congetable memory cardsSD GB6Operating temperature (TT)<br>version-0.5 S*CDiscrete graphics card memoryGDD86Operating temperature (TT)<br>version-0.5 S*COn-board graphics card✓Storage media type10.0 %On-board graphics card✓Storage media type10.0 %On-board graphics card✓Operating temperature (TT)<br>version-0.6 S*COn-board graphics card familyIntel & UHD Graphics<br>Mon-operating altitude0.5 2.048 mOn-board graphics card familyIntel & UHD Graphics<br>Mon-operating altitude0.6 GOn-board graphics card familyIntel & UHD GraphicsMon-operating altitude0.6 GNumber of tiputing speeckZStorage media type2.3 Cm<  |                                |                      | Battery weight                  | 383 g                |
| Total storage capacity **1 TBA Cadapter power18 WStorage media **SSDA Cadapter input voltage100 - 240 VStorage media **SSDA Cadapter input voltage100 - 240 VNumber of SSDs installed1A Cadapter output voltage100 - 240 VSSD capacity1 TBA Cadapter output voltage100 - 240 VSSD capacity1 TBA Cadapter output voltage100 - 240 VSSD capacityPEPersonal voltage100 - 240 VSSD form factorPCI Express 4.0SecurityVeldageOptical drive type *ML2Cable lock slot typeWedgeOptical drive type *SD SDHC, SDXCTrusted Platform Module (TPM)2.0Card reader integrated4Trusted Platform Module (TPM)2.0Carderader integrated8 GBOperating temperature (T-1)0 - 35 *CDiscrete graphics card modi *NVIDA RTX 2000 AdaStorage temperature (T-1)40 - 65 *CDiscrete graphics card modi *4Operating relative humidity (H+1)10 - 90%Discrete graphics card modi *Intele UHD GraphicsOperating relative humidity (H+1)0 - 90%On-baad graphics card modi *Intele UHD GraphicsOperating altitude15.2 - 3048 mOn-baad graphics card modi *Intele UHD GraphicsOperating altitude13.6Audio chipRealtex ALC3281Operating altitude13.2 - 10666 mNumber of turbuphone2Widh2.32 cmVieth de dimensions2.32 cm2.32 cm  |                                | •                    | Power                           |                      |
| Storage media*StopAc adapter frequency50 of ht/2Total SDs capacity1TBAC adapter input voltage100 - 240 vSDs capacity1TBAC adapter output current9.23 ASDs instailed1AC adapter output current9.23 ASDs instailed1AC adapter output current9.23 ASDs instailedPCI Express 4.0SecurityVersionSDs finstailedMACable lock slot typeVersionSDs finstailedMACable lock slot typeVersionSDs finstailedMACable lock slot typeVersionSD finst factorMACable lock slot typeVersionCard reader integratedACSonart card reader/Card reader integratedSDS Chy SDXCTrusted Platform Module (TPM)/Compatible memory cardsSD SDK, SDXCOperating temperature (T-T)0 - 35 °CDiscrete graphics card monoof!NINDA RTX 2000 AdaOperating temperature (T-T)0 - 35 °CDiscrete graphics card monoof!Intelle UHD GraphicsOperating tentuc hundity (H+H)0 - 95%On-board graphics card familyIntelle UHD GraphicsOperating altitude15.2 - 1048 mOn-board graphics card familyIntelle UHD GraphicsOperating vibration160 GAudio chipRealex ALC3281Operating vibration160 GNumber of microphone2Wersion23 cmPather output time appendixVersion23 cmFinat camera resolution1920 x 1080 pixels16  | 5                              | 1 70                 | AC adapter power                | 180 W                |
| Total SDS capacity1 TBA cadapter input voltage9.23 ANumber of SDS installed1A Cadapter output voltage9.23 ASD capacity1 TBA Cadapter output voltage9.23 ASSD installedPExpress 4.0SecurityVelocitySSD forn factorM.2Cable lock slot typeWedgeOptical dive type *KCable lock slot typeWedgeCarl reader inder voltageJ.C.VelocityVelocityCarl reader inder voltageSD, SDHC, SDXCTrusted Platform Module (TPM)Z.Carl reader inder voltageSD, SDHC, SDXCTrusted Platform Module (TPM)Z.Carl reader inder voltageSD, SDHC, SDXCPassord protectionZ.Carl reader inder voltageSD, SDHC, SDXCPassord protectionZ.Discrete graphics card modelNINIA RTX 2000 AdaStorage relative humidity (HH)0.35 CDiscrete graphics card modelIntelStorage relative humidity (HH)0.95%On-board graphics card modelIntel® UHD GraphicsOperating altitude1.5.2. 10668 mOn-board graphics card modelIntel® UHD GraphicsOperating altitude1.5.2. 10668 mOn-board graphics card modelIntel® UHD GraphicsNon-operating altitude1.3.GOn-board Graphics2.3.C.Non-operating altitude3.2.C.On-board graphics card modelIntel® UHD GraphicsNon-operating vibration3.6.GNumber of built-in speckers2.3.C.Non-operating vibration3.6.GAudio chipSo   |                                |                      | AC adapter frequency            | 50 - 60 Hz           |
| Number of SDS installed1Ac adapter output current9.23 ASD capacity1 TBAc adapter output voltage19.5 VSD capacityPCI Express 4.0SecurityNVMePCI Express 4.0Cable lock slotSDS form factorM.2Cable lock slot typeWedgeOptical drive type *XSmart card readerCard reader integratedSD. SD-KC, SDXCTrusted Platform Module (TPM)Compatible memory cardsSD. SD-KC, SDXCTrusted Platform Module (TPM)Discrete graphics card model *NDR NTX 2000 AdaOperating temperature (T-T)Discrete graphics card model *NDR NTX 2000 AdaOperating temperature (T-T)Discrete graphics card model *NDR NTX 2000 AdaOperating temperature (T-T) </td <td>-</td> <td></td> <td>AC adapter input voltage</td> <td>100 - 240 V</td>  | -                              |                      | AC adapter input voltage        | 100 - 240 V          |
| SD capacityTBAC adapter output voltage19.5 VSD interfacePI Express 4.0SecuritySecuritySD interfacePI Express 4.0Cable lock slot vaca/SD for factorM2Cable lock slot typeWedgeSD for factorM2SD inter cara reader integrated/Card reader integratedJ.Tusted Platform Module (TPM)2.0Compable memory cardsSD SDHC, SDXCTrusted Platform Module (TPM)2.0Discrete graphics card memory8 GB <b>Operating temperature (T-T)</b> 4.0 - 65 °CDiscrete graphics card memory8 GBOperating temperature (T-T)4.0 - 65 °COn-board graphics card/Operating relative humidity (H+I)10.90%Discrete graphics card/Operating relative humidity (H+I)10.90%On-board graphics card modelIntel® UHD GraphicsOperating altitude-152.2 · 3048 mOn-board graphics card modelIntel® UHD GraphicsOperating altitude-152.2 · 3048 mOn-board graphics card modelIntel® UHD GraphicsOperating altitude-152.2 · 3048 mOn-board graphics card modelIntel® UHD GraphicsOperating vibration0.66 GAudio chipIntel® UHD GraphicsOperating vibration0.66 GNumber of microphones2Non-operating vibration2.3 cmSpeaker power20 VMolt2.32 cmNumber of microphones2.92 NUBG pixelsTelepit (front)2.32 cmFront camer aresolution (numeri)0.92 NPVelig   | 1, 2                           |                      | AC adapter output current       | 9.23 A               |
| SDInterfacePCI Express 4.0SecurityNVMeCale lock slot typeNVMeCale lock slot typeWedgeOptical drive type *XSmart carl readerWedgeOptical drive type *XTusted Platform Module (TPM)Card reader integratedSD.SDHC,SDXCTusted Platform Module (TPM)Compatible memory baceSD.SDHC,SDXCTusted Platform Module (TPM)Discrete graphics card model *NUMA RTX 2000 AdaDerating temperature (T-T)Discrete graphics memory typeGDDR6Operating relative humidity (H+I)On-board graphics card *ASorage relative humidity (H+I)On-board graphics card *ASorage relative humidity (H+I)On-board graphics card fumilyIntel UHD GraphicsMore relating altitude </td <td></td> <td></td> <td>AC adapter output voltage</td> <td>19.5 V</td>   |                                |                      | AC adapter output voltage       | 19.5 V               |
| NVMe✓Cable lock slot kpp✓✓SD forn factorM.2Cable lock slot kppWegeSD forn factorXCable lock slot kppWegeCard reader integratedXTrusted Platform Module (TPM)ZCompatible memory cadsSD SDRC, SDXCTrusted Platform Module (TPM)ZDiscrete graphics card modelNUDIA RTX 2000 AdaParational conditionsZDiscrete graphics card modelMODA RTX 2000 AdaOperating temperature (T-T)0.3 5° C°Discrete graphics card modelGDR6Operating temperature (T-T)0.40 65° COn-board GPU manufactureIntelUD Graphics0.9 5%Discrete graphics card modelIntelUD Graphics10 - 90%On-board graphics card familyIntel UHD GraphicsNon-operating altitude15.2 - 3048 mOn-board graphics card familyIntel UHD GraphicsNon-operating altitude15.2 - 3048 mOn-board graphics card familyIntel WHD GraphicsNon-operating altitude16.6 GNumber of built-in speakers2Non-operating vibration13.GSpeaker power2Weget23.2 cmBuilt-in nicrophone2Weget23.2 cmFornt camer aresolution (numer)0.7 SPMedit (rann and and and and and and and and and   |                                |                      | Security                        |                      |
| Optical drive type*KSmart card readerVCard reader integratedJS, SDHC, SDXCTrusted Platform Module (TPM)<br>version2,0Compatible memory cardsSD, SDHC, SDXCTrusted Platform Module (TPM)<br>version2,0Card reader integratedNVIDIA RTX 2000 AdaPassword protection0Discrete graphics card memory8 GBOperational conditions-Discrete graphics card memoryGDDR6Operating temperature (T-T)-40 - 65 °COn-board graphics card-Operating temperature (T-T)-40 - 65 °COn-board graphics card familyIntelsOperating altitude-15.2 - 3048 mOn-board graphics card familyIntelsOperating altitude-15.2 - 3048 mOn-board graphics card familyIntelsOperating altitude-15.2 - 10668 mOn-board graphics card familyIntelsOperating altitude-15.2 - 10668 mOn-board graphics card familyIntelsOperating altitude-15.2 - 3048 mOn-board graphics card familyIntelsOperating altitude-15.2 - 10668 mNumber of microphone2Operating shock160 GNumber of microphone2Operating shock13.6 GNumber of microphone2Meght 6 dimensions23.0 mFront camera resolution (numeric)192 MPMeght 6 dimensions23.0 mFront camera resolution (numeric)192 MPTotal carbon footprint71 kg of CO2eFront camera resolution (numeric)192 MPTotal carbon footprint36 kg of CO2e  |                                | •                    | Cable lock slot                 | 1                    |
| Card reader integrated✓Tusted Platform Module (TPM)✓Compatible memory cardsSD, SDHC, SDXCTrusted Platform Module (TPM)2.0GraphicsSD, SDHC, SDXCPassword protection✓Discrete graphics card memory8G8 <b>Operating temperature</b> (T.T)-0.45 °CDiscrete graphics card momoryGDDR6Storage temperature (T.T)-40 · 65 °COn-board graphics card✓Operating temperature (T.T)-40 · 65 °COn-board graphics card memoryIntelUHD GraphicsOperating relative humidity (H+H)0.90%On-board graphics card modelIntelOperating altitude-15.2 · 3048 mOn-board graphics card modelIntelNon-operating altitude-15.2 · 10668 mOn-board graphics card modelNon-operating altitude-15.2 · 10668 mOn-board graphics card modelRealtek ALC3281Operating altitude-15.2 · 10668 mNumber of builtin speakers2Non-operating shock10.6 GAudio chipRealtek ALC3281Operating vibration0.66 GNumber of microphone2Weight foront)2.3 cmNumber of microphone2Weight foront)2.3 cmNumber of microphone9.9 MP2.3 cm2.3 cmFront camera esolution (fumeri d)9.9 MP2.4 kersinot3.3 kersicFront camera esolution (fumeri d)9.0 fSTotal carbon missions (Stand m)3.6 kersicInfrared (IR) camera9.0 fSTotal carbon missions (Stand m)3.6 kersicFront camera esolution  | SSD form factor                | M.2                  | Cable lock slot type            | Wedge                |
| Compatible memory cardsSD SDRC, SDXCTursted Platform Module (TPM)<br>Pasword protection2.0GraphicsVIDIA RTX 2000 AdaPerstour of the compatible of th   | Optical drive type *           | ×                    |                                 | 4                    |
| Graphics     version     2.0       Discrete graphics card model *     NVIDIA RTX 2000 Ada     Password protection     ✓       Discrete graphics card memory     8 GB     Operating temperature (1-T)     -0.35 °C       On-board graphics card *     ✓     Storage temperature (1-T)     -40 - 65 °C       On-board GPU manufacturer     Intel     Operating relative humidity (H+H)     10 - 90%       Discrete graphics card *     ✓     Operating relative humidity (H+H)     10 - 90%       On-board graphics card model *     Intel® UHD Graphics     Operating stead stead with (H+H)     10 - 90%       On-board graphics card model *     Intel® UHD Graphics     Operating stead stead with (H+H)     10 - 90%       On-board graphics card model *     Intel® UHD Graphics     Operating stead stead with (H+H)     10 - 60       Audio     Non-operating stead     100 G     0     0       Audio chip     Realtek ALC3281     Operating vibration     1.3 G       Speaker power     2     With     356 mm       Speaker power     2     With     35.3 mm       Front camera resolution (numeric)     0.92 MP     Wieght ** Canone   | Card reader integrated         | · ·                  |                                 | 4                    |
| Graphicspassword protection4Discrete graphics card mediaMVDIA RTX 2000 AdaDetrational conditionsDiscrete graphics card mediaGDDR6Operating temperature (T)40-65 °COn-board graphics card *4Operating temperature (T)40-65 °COn-board graphics card *Intel®Operating temperature (T)40-65 °COn-board graphics card *4Operating relative humidity (H+H)0.99%On-board graphics card familyIntel® UHD GraphicsNon-operating altitude5.2 - 3048 mOn-board graphics card familyIntel® UHD GraphicsNon-operating altitude5.2 - 3048 mOn-board graphics card familyIntel® UHD GraphicsNon-operating altitude5.2 - 3048 mAddio chipRelatek ALC3281Non-operating vibration6.66 GNumber of built-in speakers2Non-operating vibration0.66 GSpeaker power2Non-operating vibration3.63 GBuilt-In microphones2Width352 mPorta card resolution (numere)3.20 m2.30 mSpeaker power3.20 M2.30 mFont camera resolution (numere)3.20 m2.30 mSpeaker power3.20 N2.30 mFont camera resolution (numere)3.20 m2.30 mSpeaker power3.00 N2.30 m3.30 mFont camera resolution (numere)3.00 N2.30 mSpeaker power3.00 N3.30 mFont camera resolution (numere)3.00 N3.30 mSpeaker power3.00 N   | Compatible memory cards        | SD, SDHC, SDXC       |                                 | 2.0                  |
| Discrete graphics card model*NVIDIA RTX 2000 AdaOperational conditionsDiscrete graphics card memory8 GBOperating temperature (T-T)0 - 35 °COn-board graphics card*✓Storage temperature (T-T)40 - 65 °COn-board graphics card*✓Operating relative humidity (H-H)0 - 99%Discrete graphics card*✓Operating relative humidity (H-H)0 - 99%Discrete graphics card anilyIntel® UHD GraphicsOperating altitude-15.2 - 3048 mOn-board graphics card model*Intel® UHD GraphicsOperating altitude-15.2 - 10668 mOn-board graphics card model*Intel® UHD GraphicsOperating altitude-15.2 - 10668 mAudioIntel® UHD GraphicsOperating shock100 GAudio chipRealtek ALC3281Operating vibration0.66 GNumber of built-in speakers2Widht356 mmSpeaker power2 WWidht356 mmBuilt-in microphone✓Widht2.32 cmFront camera resolution (numeric)0.92 MPWeight (rear)2.32 cmFront camera resolution (numeric)1.920 x 1080 pixelsTotal carbon footprint471 kg of CO2eFront camera resolution (numeric)0 fpsTotal carbon memissions (Stand and<br>deviation)36k got CO2eVideo capturing speed30 fpsCarbon emissions (Larbon efficience)36k got CO2eInfrared (IR) camera✓Carbon emissions (Cenry Usage)6k got CO2eVideo capturing speed1.802.111a, Wi-Fi 6 (802.111ax)Carbon emissions   | Graphics                       |                      |                                 | 1                    |
| Discrete graphics and memory by 6 GB of the standard series of the s | Discrete graphics card model * | NVIDIA RTX 2000 Ada  |                                 | •                    |
| Decision of spaceSourceStorage temperature (T-T)40 - 65 °COn-board GPU manufacturerIntelOperating relative humidity (H-H)10 - 90%Discrete graphics card *✓Storage relative humidity (H-H)0 - 95%On-board graphics card familyIntel® UHD GraphicsOperating relative humidity (H-H)0 - 95%On-board graphics card familyIntel® UHD GraphicsOperating altitude-15.2 - 3048 mOn-board graphics card model *Intel® UHD GraphicsOperating shock160 GAudio chipRealtek ALC3281Operating shock160 GNumber of built-in speakers2Non-operating vibration0.66 GSpeaker power2WStorage temperature (I-T)1.3 GSpeaker power2WStorage temperature (I-T)2.3 cmNumber of fuilt-in speakers2Width2.32 cmSpeaker power2WStorage temperature (I-T)2.32 cmNumber of microphones2Width2.32 cmFront camera resolution (numeric)0.92 MPWeight "car)2.32 cmFront camera resolution (numeric)1.92 0 x 1080 pixelsTota carbon fontprint471 kg of CO2eFront camera HD typeFull HDTota carbon emissions (Standard93 kg of CO2eInfrared (IR) cameraVi-Fi 6E (802.11a.x)Carbon emissions (Lendor H)93 kg of CO2eTop Wi-Fi standard'sXi-Fi 6E (802.11a.c).Carbon emissions (Indender H)84 kg of CO2eNow operating vibration2.42 cmCarbon emissions (Len  |                                |                      | -                               |                      |
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| Addio chipRealtek ALC3281Ono-operating shock160 GNumber of built-in speakers2Operating vibration0.66 GSpeaker power2 WNon-operating vibration1.3 GBuilt-in microphoneImage: Comparition of the speakers2 Weight & dimensions3.3 GSumber of microphonesImage: Comparition of the speakers2 Weight & dimensions3.5 G mmCameraImage: Comparition of the speakers2.3 cm2.3 cmFront cameraImage: Comparition of the speakers2.3 cm2.3 cmFront camera resolution (numeric)0.92 MPWeight *2.3 cmFront camera resolution (numeric)0.92 MPWeight *2.6 kgFront camera resolution speaker1920 x 1080 pixelsTotal carbon footprint471 kg of CO2eFront camera resolution speaker30 fpsTotal carbon footprint471 kg of CO2eInfrared (IR) cameraImage: Comparison s(Manufacturing Speaker38 kg of CO2eTop Wi-Fi standard *Image: Comparison s(Lencry Usager36 kg of CO2eMobile network connection *Image: Comparison s(Lencry Usager405 kg of CO2eWi-Fi data rate (max)2400 Mbit/sAlacabon emissions (Moulds)405 kg of CO2eWi-Fi data rate (max)2400 Mbit/sPAlA version1.3 cWi-Fi data rate (max)2400 Mbit/sPAlA version1.3 cWi-Fi data rate (max)2400 Mbit/sPAlA version3.5 kg of CO2eWi-Fi data rate (max)2400 Mbit/sPAlA version1.3 cWi-Fi data rate (max) <td></td> <td></td> <td>Operating shock</td> <td>110 G</td>   |                                |                      | Operating shock                 | 110 G                |
| Number of built-in speakers2Conservation of built-in speakers0.00 of operating vibration0.00 of operating vibration1.3 GSpeaker power2 WWeight & dimensions1.3 GBuilt-in microphone4Weight & dimensions258.3 mmNumber of microphones2Depth2.32 cmCameraMeight (front)2.23 cmFront camera resolution (numeric)0.92 MPWeight *2.6 kgFront camera resolution (numeric)0.92 MPWeight *2.6 kgFront camera resolution (numeric)0.92 MPVeight *2.6 kgFront camera resolution (numeric)0.92 MPVeight *3 for Operating vibrationFront camera resolution (numeric)0.92 MPVeight *2.6 kgFront camera resolution (numeric)0.92 MPVeight *3 for Operating vibrationInfrared (IR) cameraTotal carbon footprint471 kg of CO2eVideo capturing speed0 fpsTotal carbon emissions (Standard<br>eviation)93 kg of CO2eNother KennerkWi-Fi 6E (802.11ax)Carbon emissions (Long vibratic)16 kg of CO2eNohile network connection *Carbon emissions (End-of-Life)<br>phase2 kg of CO2eWi-Fi fi dat arate (max)2400 Mbit/sAlversion1.3.2Antenna type240Alversion1.3.2WLAN controller modelIntel Wi-Fi 6E AX211AlversionAlcWLAN controller modelIntel Wi-Fi 6E AX211Carbon emissione (Inded)Alc  |                                | Bucket ALC2201       | Non-operating shock             | 160 G                |
| Speaker power2 WNon-operating violation1.5 GBuilt-in microphones2 Meight & dimensions1.5 GNumber of microphones2Width356 mmCamera2Depth2.83 mmFront camera40 peth2.32 cmFront camera resolution (numeric)0.92 MPWeight * and2.6 kgFront camera resolution (numeric)1920 x 1080 pixels2.0 kg2.6 kgFront camera resolution speed30 fpsTotal carbon footprint91 kg of CO2eInfrared (IR) cameraAfono emissions (Standard)93 kg of CO2eNetworkCarbon emissions (Logistics)16 kg of CO2eTop Wi-Fi standard *Sintal action prissions (Logistics)16 kg of CO2eNobile network connection *Sintal action emissions (Logistics)66 kg of CO2eWi-Fi data rate (max)Auo Mbit/sAlacarbon emissions (Mol SeeAlos for CO2eWi-Fi data rate (max)XuAlacarbon emissions (Mol SeeAlos for CO2eWi-Fi data rate (max)XuAlacar   |                                |                      |                                 |                      |
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| Number of microphones2Width356 mmCameraDepth258.3 mmFront cameraImage: Image:  |                                |                      | Weight & dimensions             |                      |
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| Front camera resolution (numeric)0.92 MPMeight (rear)Meight (rear)2.52 tillFront camera resolution1920 x 1080 pixelsWeight *2.6 kgFront camera HD typeFull HDCarbon footprint471 kg of CO2eVideo capturing speed30 fpsTotal carbon footprint471 kg of CO2eInfrared (IR) cameraImage: Carbon emissions (Standard)93 kg of CO2eNetworkCarbon emissions (Manufacturing)386 kg of CO2eTop Wi-Fi standard *Wi-Fi 6E (802.11ax)Carbon emissions (Logistics)16 kg of CO2eWi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11ax)Carbon emissions (Energy Usage)66 kg of CO2eMobile network connection *XCarbon emissions (Manufacturing)20 kg of CO2eWi-Fi data rate (max)2400 Mbit/sPAIA version405 kg of CO2eAntenna type2x2PAIA version1.3.2WLAN controller modelIntel Wi-Fi 6E AX211Cabes includedAC  |                                | 1                    | <b>U</b>                        |                      |
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| Infrared (IR) cameraSo rpsInfrared (IR) cameraImage: Comparison of the comparison of t   |                                | •                    | Carbon footprint                |                      |
| Networkdeviation)93 kg of CO2eNetworkdeviation)386 kg of CO2eTop Wi-Fi standard *Wi-Fi 6E (802.11ax)Carbon emissions (Manufacturing)386 kg of CO2eWi-Fi standardsWi-Fi 6E (802.11ax)Carbon emissions (Logistics)16 kg of CO2eWi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac), Wi-Fi<br>6E (802.11ax)Carbon emissions (Energy Usage)66 kg of CO2eMobile network connection *XCarbon emissions (End-of-Life)2 kg of CO2eWi-Fi data rate (max)2400 Mbit/sPAIA version1.3.2Antenna type2x2Packaging contentAcWLAN controller modelIntel Wi-Fi 6E AX211Cables includedAC   | Video capturing speed          | 30 fps               | •                               | 471 kg of CO2e       |
| NetworkCarbon emissions (Manufacturing)386 kg of CO2eTop Wi-Fi standard *Wi-Fi 6E (802.11ax)Carbon emissions (Logistics)16 kg of CO2eWi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ax)Carbon emissions (Energy Usage)66 kg of CO2eMobile network connection *Carbon emissions (End-of-Life)2 kg of CO2eWi-Fi data rate (max)2400 Mbit/sPAIA version emissions (Wo/Usage)405 kg of CO2eWLAN controller modelIntel Wi-Fi 6E AX211PAIA version1.3.2WLAN controller manufacturerIntelCarbon emissional detectionAC  | Infrared (IR) camera           | 1                    |                                 | 93 kg of CO2e        |
| Top Wi-Fi standard *Wi-Fi 6E (802.11ax)Carbon emissions (Logistics)16 kg of CO2eWi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac), Wi-Fi<br>6E (802.11ax)Carbon emissions (Energy Usage)66 kg of CO2eMobile network connection *XCarbon emissions (End-of-Life)2 kg of CO2eWi-Fi data rate (max)2400 Mbit/sPAIA version405 kg of CO2eAntenna type2x2PAIA version1.3.2WLAN controller modelIntel Wi-Fi 6E AX211Cables includedAC   | Network                        |                      |                                 | 386 kg of CO2e       |
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| Antenna type 2x2   WLAN controller model Intel Wi-Fi 6E AX211   WLAN controller manufacturer Intel   |                                |                      | •                               | 2                    |
| WLAN controller model Intel Wi-Fi 6E AX211 Packaging content   WLAN controller manufacturer Intel Cables included AC   |                                |                      |                                 | 1.J.Z                |
|  |                                | Intel Wi-Fi 6E AX211 |                                 |                      |
| Ethernet LAN 🗸   | WLAN controller manufacturer   | Intel                | Cables included                 | AC                   |
|  | Ethernet LAN                   | 1                    |                                 |                      |



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