

## DELL Precision 3591 Intel Core Ultra 7 165H Mobiilityöasema 39,6 cm (15.6") Full HD 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Harmaa

Tuotemerkki: DELL Tuoteperhe: Precision Tuotekoodi: XPVR4

Tuotteen nimi: 3591

DELL Precision 3591. Tuotetyyppi: Mobiilityöasema, Kotelo: Simpukka. Suoritinperhe: Intel Core Ultra 7, Prosessorimalli: 165H. Näytön halkaisija: 39,6 cm (15.6"), HD-tyyppi: Full HD, Näytön erottelutarkkuus: 1920 x 1080 pikseliä. Sisäinen muisti: 32 GB, Sisäisen muistin tyyppi: DDR5-SDRAM. Kokonaistallennuskapasiteetti: 1 TB, Tallennusmedia: SSD. Sisältyvän näytönohjaimen malli: Intel Arc Graphics, Erillisen näytönohjaimen malli: NVIDIA RTX 2000 Ada. Käyttöjärjestelmä asennettu: Windows 11 Pro. Tuotteen väri: Harmaa





Design		Camera	
Product type * Mobile workstation  Product colour * Grey	Privacy camera Privacy type	✓ Privacy shutter	
Form factor * Market positioning	Clamshell Business	Network	•
Display Display diagonal * Display resolution * Touchscreen * HD type Panel type LED backlight Native aspect ratio Anti-glare screen Display brightness Pixel density RGB colour space Colour gamut Maximum refresh rate	39.6 cm (15.6") 1920 x 1080 pixels  X Full HD IPS  V 16:9  V 400 cd/m² 141 ppi sRGB 100%	Top Wi-Fi standard * Wi-Fi standards  Mobile network connection * Wi-Fi data rate (max) Antenna type WLAN controller model WLAN controller manufacturer Ethernet LAN Ethernet LAN data rates Bluetooth WWAN MIMO MIMO type	Wi-Fi 6E (802.11ax) Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)  X 2400 Mbit/s 2x2 Intel Wi-Fi 6E AX211 Intel  Intel  Upgradable  Multi User MIMO
	60 Hz	<b>31</b>	Multi User MIMO
Contrast ratio (typical)	800:1	Ports & interfaces	
Processor  Processor manufacturer *  Processor family *  Processor generation  Processor model *  Processor cores  Processor threads  Processor boost frequency  Performance cores	Intel Intel Core Ultra 7 Intel® Core™ Ultra (Series 1) 165H 16 22 5 GHz 6	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports HDMI ports quantity * HDMI version Thunderbolt 4 ports quantity Intel® Thunderbolt 4 Combo headphone/mic port	2 1 1 2.1 2

Processor   Processor   Emiliant cores   S   US Proce Clogishypert Aleman's   Professor Clogishypert Clogishypert   Professor Clogishypert   Professor Clogishypert Clogishypert   Professor				
Jow Power Hiffeentones         2         Mode for Presence or Presentation or Presentation or Presence or Presentation or Presentation or Presentation or Presentation or Presentatio	Processor		Ports & interfaces	
PerformanceCode   Natural Code   Natural Code   PerformanceCode   PerformanceCode   Natural Code   PerformanceCode   PerformanceCode   PerformanceCode   Natural Code   PerformanceCode				<b>✓</b>
Fequency		2		
Efficiency core Max Turbo Prequency         3.8 GHz         RevoemShare support         Touchpad           Frequency         2.5 GHz         Keybard         Touchpad           Performance-core base frequency         0.9 GHz         Keyboard anguage         Nordic           Efficient-core base frequency         700 MHz         Keyboard number of keys         10           Processor Cache         2.4 MB         Keyboard number of keys         10           Processor Cache type         5mart Cache         Software         64-bit           Processor Cache type         2.4 MB         Software         0           Neural processor unit (NPU)         Intel Al Boost         Trial software         0           Neural processor unit (NPU)         Intel Al Boost         Trial software         Windows 10 Fror Port           Narratify support on NPU         FP16, FP21, Int8         Number of battery cells         4           Al databyse support on NPU         PF16, FP22, Int8         Number of battery cells         4           Al databyse support on NPU         PF16, FP22, Int8         Number of battery cells         4           Al databyse support on NPU         PF16, FP22, Int8         Number of battery cells         4           Al databyse support on NPU         PD65, SP2AM         Reatery recharge limit		5 GHz		•
Frequency		3.8 GHz		1
Performance-one base frequency         1.4 GHz         Pointing device         Touchpad           Efficient-core Base Frequency         700 MHz         Numeric keypad **         v           Processor cache         24 MB         Keyboard number of keys         100           Processor cache type         38 W         Software         64-bit           Processor base power         18 W         Operating system anchiecture         64-bit           Neural processor unit (NPU)         Intel Bosst         Trial software         3-30 day Trial Offer Only           Neural processor unit (NPU)         Intel Bosst         Trial software         3-30 day Trial Offer Only           Neural processor unit (NPU)         Intel Bosst         Trial software         3-30 day Trial Offer Only           Neural processor unit (NPU)         Intel Bosst         Trial software         3-30 day Trial Offer Only           Spanisly support         -         8attery           Windows Studio effects support         -         Battery           Windows Studio effects support         FP16, FP32, Int8         Number of battery cells         4           A software framework's supported         PF16, FP32, Int8         Mumber of battery cells         4           Nemory (strial offer offer supported on Minose of the supported on Minose offer supported on Minose offer su		2.5 GHz	Keyboard	
Elicitent.core base frequency         0.9 GHz         Keyboard language         Nordic           Low Power Elicitent.core Base         700 MHz         Keyboard backlit         ~           Processor cache type         24 MB         Keyboard unmber of keys         10           Processor cache type         28 W         Operating system architecture         64-bit           Neural processor unit (NPU)         115 W         Operating system language         64-bit           Neural processor unit (NPU)         1.4 GHz         Operating system language         64-bit           Microsoft unit (NPU)         1.4 GHz         Operating system language         64-bit           Microsoft unit (NPU)         1.4 GHz         No Microsoft office Licence Included Advisory (Signature)         64-bit           As data year         1.4 GHz         No Microsoft office Licence Included Advisory (Signature)         64-bit           As data year         1.4 GHz         No Microsoft office Licence Included Advisory (Signature)         1.4 GHz           As data year         1.4 GHz         No Microsoft office Licence Included Advisory (Signature)         1.5 Ly Company (Signature)           As data year         1.4 GHz         No Microsoft office Licence Included Advisory (Signature)         1.5 Ly Company (Signature)           As destruction of the processor unit (NPU)         1.4 G	• •	1.4 GHz	Pointing device	Touchpad
Processor cache   Processor	, ,		Keyboard language	Nordic
Frequency		700 MHz	Numeric keypad *	✓
Processor base power         Smart Cache         Software           Processor base power         28 W         Operating system architecture         64-bit           Neural processor unit (NPU)         1.4 GHz         Operating system language         Markinum trequency NPU         1.4 GHz           Neural processor unit (NPU)         1.4 GHz         Operating system installed*         National System (NPU)           National System (NPU)         1.4 GHz         Operating system installed*         Vindows 11 Pro           Windows Studio effects support         /         Battery         Windows 11 Pro           Al datatype support on NPU         P16, FP32, Int8         Number of battery cells         4           Al software frameworks support on NPU         P16, FP32, Int8         Mumber of battery cells         4           Al software frameworks support on NPU         P16, FP32, Int8         Mumber of battery cells         4           Al software frameworks support on NPU         P16, FP32, Int8         Number of battery cells         4           Al software frameworks support on NPU         DIDR-SDRAM         Battery traped with a support on the support on			•	✓
Processor base power         28 W         Software         G4-bit Maximum turbo power         115 W         Operating system language         64-bit Maximum turbo power         Call Processor unit (NPU)         Intel Al Boost         Trial software         Ab Microsoft Office Licence Included -30 day Trial Office Licence Included -30			Keyboard number of keys	100
Maximum turbo power         15 W         Operating system annitueture         64-bit Danish, English, Finnish, Norwegian, Swedish           Neural processor unit (NPU)         1 Mel Al Boost         Trial software         Swedish           Maximum frequency NPU         1.4 GHZ         Operating system installed         30 Microsoft Office Licence Included Parking System installed           Mindows Studio effects support         /         Battery         Windows Studio effects support         Windows Studio effects support         More Patients         44 Memory         64 Wh         More Patients         44 Memory         44 Memory         64 Wh         Memory	**		Software	
Neural processor unit (NPU)         Intel Al Boost         Trial software         Non-icrosott Office Licence Included -30 day Trial Offer Only           Maximum frequency NPU         1.4 GHz         Operating system installed **         Non-icrosott Office Licence Included -30 day Trial Offer Only           Windows Studio effects support         ✓         Battery         Window Studio effects support         4           Al software frameworks support on NPU         P16, F92, Int8         Number of battery cells         4         4           Al software frameworks support on NPU         P16, F92, Int8         Number of battery cells         4         4         4           Al software frameworks support on NPU         P16, F92, Int8         Number of battery cells         4	•		Operating system architecture	64-bit
Neural processor unit (NPU)         Intel Al Boost         Trial software         No Microsoft Office Licence Included - 30 day Trial Offer Only           Maximum frequency NPU         4 CH2         Operating system installed **         Windows 11 Pro           Windows Studio effects support         ≠ CP         Al datatype support on NPU         FP16, FP32, Int8         Number of battery cells         4 GH Windows 11 Pro           Al datatype support on NPU         FP16, FP32, Int8         Battery capacity*         64 Wh         4 GH Windows ML           Memory         Uncertain CNNK, ONNX, RT, OpenVINIO, Windows ML         Battery cepacity*         64 Wh         4 Wh           Memory         32 GB         Fast charging         ≠ Cepacity*         64 Wh           Internal memory type         DDRS-SDRAM         Battery verlange timed         2 Wh           Memory form factor         SO-DIMM         Battery verlange timedicator         ≠ Cepacity         4 Sa 0g           Memory slots         50-DIMM         AC adapter prover         130 Wh         4 Sa 0g           Memory slots         50-DIMM         AC adapter prover         130 Wh         5 So 60 Pd           Memory slots         50-DIMM         AC adapter prover         150 Wh         50 Pd           Memory slots         50-DIMM         AC adapter prover	Neural processor unit (NPU)		Operating system language	
Maximum frequency NPU         1.4 GHz         Operating system installed ** Windows 11 Pro           Windows Studio effects support         V         A datatype support on NPU         FP16, FP32, Int8         Number of battery cells         4 GH Wh           AI datatype support on NPU by NPU         FP16, FP32, Int8         Number of battery cepality ** GH Wh         64 Wh           AI software frameworks supported by NPU         DirectML, ONNX RT, OpenVINO, Windows ML         Battery capacity ** GH Wh         64 Wh           Memory         32 GB         Fast charging         *           Internal memory type         DDR5-SDRAM         Battery charge indicator         *           Memory form factor         SO-DIMM         Battery weight         280 g           Memory slots         2x SO-DIMM         AC adapter power         130 W           Maximum internal memory **         64 GB         AC adapter power         130 W           Maximum internal memory **         64 GB         AC adapter power         130 W           Memory data transfer rate         5600 MT/s         AC adapter input voltage         100 - 240 V           Non-ECC         V         USB Type-C charging port **         V           Total storage capacity **         1 TB         USB Charging voltage         520 V           Storage media **	Neural processor unit (NPU)	Intel Al Boost	Trial coffware	
Saratisy support   Al datatype support on NPU	Maximum frequency NPU	1.4 GHz		,
Al datatype support on NPU Al Software frameworks supported by NPU         FP16, FP32, Int8         Number of battery cells         4 Wh           Al software frameworks supported by NPU         DirectML, ONNX RT, OpenVINO, Windows ML         Battery capacity*         64 Wh           Memory         32 GB         Fast charging         ✓           Internal memory bye         DDR5-SDRAM         Battery recharge time         3 h           Memory Jayout (slots x size)         1 x32 GB         Battery weight         280 g           Memory Jayout (slots x size)         1 x32 GB         Power         30 M           Memory Jayout (slots x size)         1 x32 GB         Power         130 W           Memory Jayout (slots x size)         1 x32 GB         AC adapter prower         130 W           Memory Jayout (slots x size)         1 x32 GB         AC adapter prower         100 - 240 V           Memory Jayout (slots x size)         1 x32 GB         AC adapter prower         100 - 240 V           Memory Jayout (slots x size)         1 x32 GB         AC adapter prower         100 - 240 V           Memory Jayout (slots x size)         1 x32 GB         AC adapter prower         100 - 240 V           Memory Jayout (slots x size)         1 x32 GB         AC adapter prower         100 - 240 V           Memory Jayout (slots x size)<	Sparsity support	✓	Operating system installed *	Windows 11 Pro
Al software frameworks supported by NPU   Windows ML   Battery capacity   5.2 V   15.2 V	Windows Studio effects support	✓	Battery	
by NPU         Windows ML         Battery voltage         15,2 V           Memory         Battery recharge time         3 h           Internal memory *         32 GB         Fast charging         ✓           Internal memory type         DDR5 SDRAM         Battery charge indicator         ✓           Memory form factor         SO-DIMM         Battery weight         280 g           Memory slots         2 x SO-DIMM         Power           Maximum internal memory *         64 GB         AC adapter power         130 W           Maximum internal memory *         64 GB         AC adapter input voltage         100 - 240 V           Memory data transfer ate         5600 MT/s         AC adapter input voltage         100 - 240 V           Memory data transfer ate         5600 MT/s         AC adapter input voltage         100 - 240 V           Memory data transfer ate         5600 MT/s         AC adapter input voltage         100 - 240 V           Memory data transfer ate         15 B         USB Type-C charging port **         ✓           Storage         1 TB         USB Power Delivery (USB PD) **         ✓           Storage media*         5 SD or SD         Security         Y           Votal Storage capacity         1 TB         Cable lock slot type         Wed	Al datatype support on NPU	FP16, FP32, Int8	Number of battery cells	4
Memory         Battery recharge time         3 h           Internal memory **         32 GB         Fast charging         *           Internal memory type         DDRS-SDRAM         Battery charge indicator         *           Memory form factor         SO-DIMM         Battery weight         280 g           Memory Jayout (slots x size)         1 x 32 GB         Power         *           Memory Jayout (slots x size)         2 x 50-DIMM         AC adapter power         130 W         *           Memory Jayout (slots x size)         66 GB         AC adapter frequency         50 · 60 Hz         *           Memory Jayout (slots x size)         66 GB         AC adapter frequency         50 · 60 Hz         *           Memory Jayout (slots x size)         66 GB         AC adapter frequency         50 · 60 Hz         *           Memory Jayout (slots x size)         66 GB         AC adapter frequency         50 · 60 Hz         *           Memory Jayout (slots x size)         66 GB         AC adapter frequency         50 · 60 Hz         *           Memory Jayout (slots x size)         66 GB         AC adapter frequency         50 · 60 Hz         *           Memory Jayout (slots x size)         18         ME Scale Scal			Battery capacity *	
Internal memory *         32 GB         Fast charging         /           Internal memory type         DDRS-SDRAM         Battery charge indicator         /           Memory form factor         SO-DIMM         Battery weight         28 0g           Memory Jout (slots x size)         1 x 32 GB         Power           Memory slots         2x SO-DIMM         AC adapter power         130 W           Memory slots         4C adapter input voltage         100 - 240 V           Memory data transfer rate         5600 MT/s         AC adapter input voltage         100 - 240 V           Non-ECC         Y         USB Type-C charging port *         Y           Storage         USB Power Delivery (USB PD) *         Y           Storage         1TB         USB Charging voltage         5,20 V           Storage media *         5SD         Socurity         *           Total Storage capacity *         1 TB         USB charging voltage         5,20 V           Storage media *         5SD         Socurity         *           Total Storage capacity *         1 TB         Cable lock slot type         Wedge           SSD sparformance of SSDs installed *         1         *         *           SSD form factor         M.2         *         <	by NPU	Windows ML	, ,	
Internal memory type DDRS-SDRAM Memory form factor SO-DIMM Memory layout (slots x size) Memory layout (slots x size) Memory slots 2 x SO-DIMM Maximum internal memory* 64 GB AC adapter power AC adapter frequency SO-60 Hz Memory data transfer rate S600 MT/s AC adapter input voltage Memory data transfer rate S600 MT/s AC adapter input voltage Memory data transfer rate S600 MT/s AC adapter input voltage Memory data transfer rate S600 MT/s AC adapter input voltage Memory data transfer rate S600 MT/s AC adapter input voltage Memory data transfer rate Memory data transfer rate S600 MT/s AC adapter input voltage Memory data transfer rate Memory data transfer rate Memory data transfer rate S600 MT/s AC adapter input voltage Memory lusp Ptow Memory data transfer rate Memo	Memory		, ,	
Memory Inform factor	•		5 5	
Memory layout (slots x size)         1 x 32 GB         Power           Memory slots         2x 50-DIMM         AC adapter power         130 W           Maximum internal memory*         64 GB         AC adapter frequency         50-60 Hz           Memory data transfer rate         5000 MT/s         AC adapter input voltage         100-240 V           Non-ECC         V         USB Type-C charging port *         V           Storage         USB Power Delivery (USB PD)*         V           Storage media *         SSD         SSD           Storage media *         SSD         SSD           Total SSDs capacity         1 TB         Cable lock slot         V           Number of SSDs installed         1         TB         Cable lock slot type         Wedge           SSD capacity         1 TB         Cable lock slot type         Wedge           NVMe         Y         Trusted Platform Module (TPM)         Y           SSD form factor         M.2         Trusted Platform Module (TPM)         2.0           SSD performance class         40         Operating temperature (T-T)         40 - 55 °C           Grad reader integrated         Y         Operating temperature (T-T)         40 - 65 °C           Card reader integrated         Y			· ·	
Memory siots         2x SO-DIMM         AC adapter power         130 W           Maximum internal memory*         64 GB         AC adapter frequency         50 - 60 Hz           Memory data transfer rate         5600 MT/s         AC adapter input voltage         100 - 240 V           Non-ECC         V         USB Type-C charging port **         V           Storage         USB Power Delivery (USB PD)*         V           Storage media *         SSD         SSD           Storage media *         SSD         Security           Total SSDs capacity         1 TB         USB charging voltage         5,20 V           Storage media *         SSD         SECURITY         V           Storage media *         SSD         SECURITY         V           William SSDs capacity         1 TB         Cable lock slot         V           SSD storage reliations         1 TB         Cable lock slot type         Wedge           SSD interface         PCI Express 4.0         Smart card reader         V           NVMe         V         Trusted Platform Module (TPM)         V           SSD interface         M.2         Trusted Platform Module (TPM)         2.0           SSD performance class         40         Operating Litude         0 - 3	•			280 g
Maximum internal memory *         64 GB         AC adapter power         130 W           Memory data transfer rate         5600 MT/s         AC adapter input voltage         100 - 240 V           Non-ECC         V         USB Type-C charging port *         V           Storage         USB Power Delivery (USB PD) *         V           Total storage capacity *         1 TB         USB charging voltage         5,20 V           Storage media *         SSD         Security         5,20 V           Total Storage apacity *         1 TB         Cable lock slot         V           Number of SSDs installed         1         Cable lock slot type         Wedge           SSD interface         PCI Express 4.0         Smart card reader         V           NVMe         V         Trusted Platform Module (TPM)         V           SSD form factor         M.2         Trusted Platform Module (TPM)         2.0           SSD performance class         40         V         2.0           M.2 SSD size         2280 (22 x 80 mm)         Operating Endature (T-T)         0 - 35 °C           Card reader integrated         V         Operating temperature (T-T)         0 - 55 °C           Compatible memory cards         MicroSD (TransFlash), MicroSDHC, MicroSDMC         Operating relati	• •			
Memory data transfer rate         5600 MT/s         AC adapter input voltage         100 - 240 V           Non-ECC         V         USB Type-C charging port*         V           Storage         I TB         USB Power Delivery (USB PD)*         V           Total storage capacity*         1 TB         USB charging voltage         5,20 V           Storage media *         SSD         Security         5,20 V           Total SSDs capacity         1 TB         Cable lock slot         V           Number of SSDs installed         1 TB         Cable lock slot type         Wedge           SSD capacity         1 TB         Cable lock slot type         Wedge           SSD capacity         1 TB         Cable lock slot type         Wedge           SSD capacity         1 TB         Tursted Platform Module (TPM)         V           NVMe         V         Trusted Platform Module (TPM)         V           SSD performance class         40         V         V           SSD size         2280 (22 x 80 mm)         Operating acmain temperature (T-T)         0-35 °C           Card reader integrated         X         Operating temperature (T-T)         40 · 65 °C           Compatible memory cards         MicroSD (TransFlash), MicroSDHC, MicroSD (TransFlash), MicroSD (TransFlash	•			
Non-ECC         ✓         USB Type-C charging port *         ✓           Storage         USB Power Delivery (USB PD) *         ✓           Total storage capacity *         1 TB         USB charging voltage         5,20 V           Storage media *         SSD         Security           Total SSDs capacity         1 TB         Cable lock slot         ✓           Number of SSDs installed         1 TB         Cable lock slot type         Wedge           SSD interface         PCI Express 4.0         Smart card reader         ✓           NVMe         ✓         Trusted Platform Module (TPM)         ✓           SSD interface         M.2         Trusted Platform Module (TPM)         ✓           SSD form factor         M.2         Trusted Platform Module (TPM)         ✓           SSD performance class         40         Version         Version           M.2 SSD size         2280 (22 x 80 mm)         Operating temperature (T-T)         0-35 °C           Card reader integrated         ✓         Storage temperature (T-T)         -40 · 65 °C           Compatible memory cards         MicroSD (TransFlash), MicroSDHC         Operating relative humidity (H-H)         10 · 90%           Storage relative shumidity (M-H)         10 · 90%         15.2 · 3048 m <t< td=""><td>•</td><td>5600 MT/s</td><td></td><td></td></t<>	•	5600 MT/s		
Storage       Jame Delivery (USB PD)*       ✓         Total storage capacity*       1 TB       USB charging voltage       5,20 V         Storage media *       SSD       SSD         Total SSDs capacity       1 TB       Cable lock slot       ✓         Number of SSDs installed       1       Cable lock slot type       Wedge         SSD capacity       1 TB       Smart card reader       ✓         NVMe       ✓       Trusted Platform Module (TPM)       ✓         SSD form factor       M.2       Trusted Platform Module (TPM)       ✓         SSD performance class       40       Version       ✓         M.2 SSD size       2280 (22 x 80 mm)       Operating temperature (T-T)       40 - 65 °C         Card reader integrated       ✓       Storage temperature (T-T)       40 - 65 °C         Compatible memory cards       MicroSD (TransFlash), MicroSDHC,	Non-ECC	✓		
Total storage capacity* 1 TB USB charging voltage 5,20 V  Storage media * SSD  Security  Total SSDs capacity 1 TB  Number of SSDs installed 1 Cable lock slot	Storage		,, s s .	
Storage media *         SSD         Security           Total SSDs capacity         1 TB         Cable lock slot         ✓           Number of SSDs installed         1         Cable lock slot type         Wedge           SSD capacity         1 TB         Smart card reader         ✓           SSD capacity         PCI Express 4.0         Smart card reader         ✓           NVMe         PCI Express 4.0         Smart card reader         ✓           SSD form factor         M.2         Trusted Platform Module (TPM) version         2.0           SSD performance class         40         Deprational conditions         V           Optical drive type *         X         Operating temperature (T-T)         0 - 35 °C           Card reader integrated         ✓         Storage temperature (T-T)         -40 - 65 °C           Compatible memory cards         MicroSD (TransFlash), MicroSDHC, MicroSDHC, MicroSDXC         Storage relative humidity (H-H)         10 - 90%           Graphics         V         Operating altitude         -15.2 - 3048 m           Discrete graphics card model *         NVIDIA RTX 2000 Ada         Non-operating altitude         -15.2 - 10668 m           Discrete graphics memory type         GDDR6         Operating vibration         1.66 G           On-board graphi	•	1 TB	• • • • • • • • • • • • • • • • • • • •	
Total SSDs capacity Number of SSDs installed 1 Cable lock slot V Wedge SSD capacity 1 TB Cable lock slot type Wedge SSD capacity SSD interface PCI Express 4.0 Smart card reader V NVMe V Trusted Platform Module (TPM) V SSD form factor M.2 SSD performance class 40 M.2 SSD size 2280 (22 x 80 mm) Operating temperature (T-T) Card reader integrated V Compatible memory cards MicroSDXC  Graphics Graphics Graphics card model* Discrete graphics card memory Discrete graphics card * On-board graphics card * On-board graphics card family On-board graphics card model* Intel Audio  Augusta 1  Cable lock slot V Wedge Wedge Wedge Wedge  Cable lock slot V Wedge Wedge Wedge  Cable lock slot V Wedge  Wedge  Cable lock slot V Wedge  Wedge  Cable lock slot V Wedge  Wedge  Cable lock slot type Wedge  Wedge  V Wedge  Cable lock slot type Wedge  Wedge  Cable lock slot type Wedge  V Wedge  Cable lock slot type Wedge  V Wedge  Smart card reader V Trusted Platform Module (TPM) V Cable lock slot type Wedge  V  Trusted Platform Module (TPM) V Operating temperature (T-T) Operating temperature (T-T) Operating relative humidity (H-H) Operating relative humidity (H-H) Operating relative humidity (H-H) Operating altitude V-15.2 - 3048 m Von-operating slitude V-15.2 - 10668 m Von-operating slock V Operating vibration V Operating slock V Operating vibration V Operating slock V Operating slock V Operating slo			5 5 5	3,23 (
Numer or SSDS installed SSD capacity 1 TB SSD capacity SSD interface PCI Express 4.0  NVMe  V Trusted Platform Module (TPM) Version  SSD performance class M.2 SSD performance class M.2 SSD size 2280 (22 x 80 mm) Optical drive type *  Card reader integrated  MicroSD (TransFlash), MicroSDHC, MicroSDMC  Compatible memory cards MicroSDXC  Graphics  Graphics  Graphics  Graphics card model * NVIDIA RTX 2000 Ada Discrete graphics card memory Discrete graphics card memory type On-board graphics card * On-board graphics card * On-board graphics card family On-board graphics card model * Intel Arc Graphics  IT usted Platform Module (TPM) Version  Prusted Platform Module (TPM) Version Prusted Platform Module (T	Total SSDs capacity	1 TB	•	
SSD interface PCI Express 4.0 Smart card reader V  NVMe V Trusted Platform Module (TPM) V  SSD form factor M.2 Trusted Platform Module (TPM) version 2.0  M.2 SSD performance class 40 Version 0  M.2 SSD size 2280 (22 x 80 mm) Operational conditions  Optical drive type * X Operating temperature (T-T) 0 - 35 °C  Card reader integrated V Storage temperature (T-T) -40 - 65 °C  Compatible memory cards MicroSD (TransFlash), MicroSDHC, MicroSDXC Operating relative humidity (H-H) 10 - 90%  Storage relative humidity (H-H) 0 - 95%  Graphics Operating altitude -15.2 - 3048 m  Non-operating altitude -15.2 - 10668 m  Operating shock 110 G  Discrete graphics card model * Operating vibration 0.66 G  On-board graphics card * V Operating vibration 1.3 G  On-board GPU manufacturer Intel  Discrete graphics card * V Sustainability  On-board graphics card model * Intel Arc Graphics 1 Intel Arc Graphics 1 Intel Arc Graphics 2 Sustainability certificates ENERGY STAR, TCO  Audio Weight & dimensions	Number of SSDs installed	1		
NVMe			**	3
SSD form factor M.2  SSD performance class 40  M.2 SSD size 2280 (22 x 80 mm) Operational conditions  Optical drive type *  Card reader integrated ✓ Storage temperature (T-T) -40 -65 °C  Compatible memory cards MicroSD (TransFlash), MicroSDHC, MicroSDXC Storage relative humidity (H-H) 0 - 95%  Graphics Operating altitude -15.2 - 3048 m  Non-operating altitude -15.2 - 10668 m  Discrete graphics card model * Discrete graphics card memory B GDDR6 Operating vibration 0.66 G  On-board graphics card *  On-board graphics card *  On-board graphics card *  On-board graphics card model * Intel Arc Graphics Operating sock On-board graphics card model * Intel Arc Graphics Operating sock On-board graphics card model * Intel Arc Graphics Operating Sustainability certificates Operating STAR, TCO  Meight & dimensions		•		
SSD performance class 40 version 2.0  M.2 SSD size 2280 (22 x 80 mm) Operational conditions  Optical drive type * X Operating temperature (T-T) 0 - 35 °C  Card reader integrated ✓ Storage temperature (T-T) -40 - 65 °C  Compatible memory cards MicroSD (TransFlash), MicroSDHC, MicroSDXC Operating relative humidity (H-H) 10 - 90%  Storage relative humidity (H-H) 0 - 95%  Graphics Operating altitude -15.2 - 3048 m  Non-operating altitude -15.2 - 10668 m  Discrete graphics card memory 8 GB Non-operating shock 110 G  Operating shock 160 G  Operating shock 160 G  Operating vibration 0.66 G  Operating vibration 1.3 G  On-board graphics card * ✓ On-board graphics card * ✓ Sustainability  On-board graphics card family Intel Arc Graphics Sustainability certificates ENERGY STAR, TCO  Audio Version 2.0  Operating temperature (T-T) 0 - 35 °C  Operating temperature (T-T) -40 - 65 °C  Operating temperature (T-T) -40 - 65 °C  Operating relative humidity (H-H) 10 - 90%  Storage relative humidity (H-H) 0 - 95%  Operating altitude -15.2 - 10668 m  Non-operating shock 110 G  Operating shock 110 G  Sustainability operating shock 120 G  Operating vibration 13 G  On-board graphics card * ✓ Sustainability compliance ✓ Sustainability certificates ENERGY STAR, TCO				•
M.2 SSD size       2280 (22 x 80 mm)       Operational conditions         Optical drive type *       X       Operating temperature (T-T)       0 - 35 °C         Card reader integrated       ✓       Storage temperature (T-T)       -40 - 65 °C         Compatible memory cards       MicroSD (TransFlash), MicroSDHC, MicroSDHC, MicroSDXC       Operating relative humidity (H-H)       10 - 90%         Storage relative humidity (H-H)       0 - 95%         Operating altitude       -15.2 - 3048 m         Non-operating altitude       -15.2 - 10668 m         Discrete graphics card memory       8 GB       Operating shock       110 G         On-board graphics memory type       GDDR6       Operating vibration       0.66 G         On-board GPU manufacturer       Intel       Non-operating vibration       1.3 G         On-board graphics card *       ✓       Sustainability         On-board graphics card family       Intel Arc Graphics       Sustainability compliance       ✓         On-board graphics card model *       Intel Arc Graphics       Sustainability certificates       ENERGY STAR, TCO         Audio       Weight & dimensions				2.0
Optical drive type * X	·		Operational conditions	
Card reader integrated  Compatible memory cards  MicroSD (TransFlash), MicroSDHC, MicroSDHC, MicroSDXC  MicroSDXC  Operating relative humidity (H-H)  Storage relative humidity (H-H)  O - 95%  Operating altitude  Operating altitude  Operating altitude  Operating altitude  Operating shock  Intel  Operating shock  Intel  Operating shock  Operating shock  Operating shock  Intel  Operating shock  Intel  Operating shock  Operating shock  Operating shock  Operating shock  Operating shock  Operating shock  Operating vibration  Operating vibration  Operating vibration  On-board GPU manufacturer  On-board graphics card *  On-board graphics card family  On-board graphics card family  On-board graphics card family  On-board graphics card model *  Intel Arc Graphics  Sustainability compliance  On-board graphics card model *  Intel Arc Graphics  On-board graphics card model *  On-board graphics		,		0 - 35 °C
Compatible memory cards  MicroSDXC  Storage relative humidity (H-H)  O - 95%  Operating altitude  -15.2 - 3048 m  Non-operating altitude  Discrete graphics card model *  Discrete graphics card memory  8 GB  Operating shock  Operating shock  110 G  Non-operating shock  Operating shock  Operating shock  Operating shock  Operating vibration  On-board graphics card *  On-board GPU manufacturer  Discrete graphics card *  On-board graphics card family  On-board graphics card family  Intel Arc Graphics  Sustainability  On-board graphics card model *  Intel Arc Graphics  Sustainability certificates  ENERGY STAR, TCO  Weight & dimensions	•			
Graphics  Operating altitude  Discrete graphics card model *  Discrete graphics card memory  Discrete graphics card memory  Discrete graphics memory type  On-board graphics card *  On-board GPU manufacturer  Discrete graphics card *  On-board graphics card model *  Intel Arc Graphics  Sustainability  On-board graphics card model *  Intel Arc Graphics  Sustainability compliance  On-board graphics card model *  On-board graphics	J		Operating relative humidity (H-H)	
Discrete graphics card model * NVIDIA RTX 2000 Ada Discrete graphics card memory 8 GB Discrete graphics memory type GDDR6 On-board graphics card * On-board GPU manufacturer Discrete graphics card * On-board graphics card amily On-board graphics card family On-board graphics card model * Intel Arc Graphics  Sustainability compliance On-board graphics card model * Intel Arc Graphics  Sustainability certificates  Weight & dimensions		MICIUSDAC		
Discrete graphics card memory 8 GB  Discrete graphics memory type  On-board graphics card *  On-board GPU manufacturer  Discrete graphics card *  On-board graphics card amily  On-board graphics card family  On-board graphics card model *  Intel Arc Graphics  Sustainability compliance  On-board graphics card model *  Intel Arc Graphics  Sustainability certificates  ENERGY STAR, TCO  Weight & dimensions	-	NIVIDIA PTY 2000 Ada		
Discrete graphics memory type On-board graphics card * On-board GPU manufacturer Discrete graphics card * On-board graphics card * On-board graphics card *  On-board graphics card *  On-board graphics card family On-board graphics card model *  Intel Arc Graphics  Sustainability compliance On-board graphics card model *  Intel Arc Graphics  Sustainability certificates  ENERGY STAR, TCO  Weight & dimensions	• .			
On-board graphics card *				
On-board GPU manufacturer Discrete graphics card * On-board graphics card family On-board graphics card model * Intel Arc Graphics Sustainability Sustainability compliance On-board graphics card model * Intel Arc Graphics Sustainability certificates ENERGY STAR, TCO  Weight & dimensions	- ,			
On-board graphics card family On-board graphics card model * Intel Arc Graphics  Audio  Sustainability compliance Sustainability certificates  ENERGY STAR, TCO  Weight & dimensions		Intel	Non-operating vibration	1.3 G
On-board graphics card family	Discrete graphics card *	✓	Sustainability	
Audio Weight & dimensions		Intel Arc Graphics	Sustainability compliance	✓
	On-board graphics card model *	Intel Arc Graphics	Sustainability certificates	ENERGY STAR, TCO
Number of built-in speakers 2 Width 357.8 mm	Audio		Weight & dimensions	
	Number of built-in speakers	2	Width	357.8 mm

Audio		Weight & dimensions	
Speakers manufacturer	Waves	Depth	233.3 mm
Speaker power	2 W	Height (front)	2.27 cm
Built-in microphone	✓	Height (rear)	2.47 cm
Number of microphones	2	Weight *	1.79 kg
Camera		Carbon footprint	
Front camera	<b>✓</b>	Total carbon footprint (kg of CO2e)	120
Front camera resolution (numeric) Front camera resolution Front camera HD type Video capturing speed	2.07 MP 1920 x 1080 pixels Full HD 30 fps	Carbon emissions, manufacturing (kg of CO2e)	84
		Carbon emissions, logistics (kg of CO2e)	5
		Carbon emissions, energy usage (kg of CO2e)	31
		Carbon emissions, end-of-life (kg of CO2e)	1
		Total carbon emissions, w/o use phase (kg of CO2e)	89
		PAIA version	GaBi version 1, 2024
		Packaging content	
		Cables included	AC



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