

## DELL Vostro 5640 Intel Core 5 120U Sülearvuti 40,6 cm (16") Full HD+ 16 GB DDR5-SDRAM 1 TB SSD Wi-Fi 6 (802.11ax) Windows 11 Home Hall

Brand : DELL

Product family: Vostro

Product code: N1006VNB5640EMEA01\_HOM

Product name : 5640

DELL Vostro 5640. Toote tüüp: Sülearvuti, Toote kuju: Kokkukäiv. Protsessori perekond: Intel Core 5, Protsessori mudel: 120U. Ekraani diagonaal: 40,6 cm (16"), HD tüüp: Full HD+, Ekraani resolutsioon: 1920 x 1200 pikslit. Sisemälu: 16 GB, Sisemälu tüüp: DDR5-SDRAM. Salvestusmaht kokku: 1 TB, Salvestusseade: SSD. Pardagraafika adapteri mudel: Intel Graphics. Installitud operatsioonisüsteem: Windows 11 Home. Toote värv: Hall





Design		Network	
Colour name Product type * Product colour * Form factor * Market positioning Display	Titan Gray Laptop Grey Clamshell Business	Mobile network connection * Antenna type WLAN controller model WLAN controller manufacturer Ethernet LAN Ethernet LAN data rates	× 2x2 Realtek RTL8852BE Realtek ✓ 10,100,1000 Mbit/s
Display diagonal *	40.6 cm (16")	Bluetooth	✓
Display resolution *	1920 x 1200 pixels	Ports & interfaces	-
Touchscreen * HD type	× Full HD+	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Panel type LED backlight Native aspect ratio Anti-glare screen Display brightness Pixel pitch Pixel density RGB colour space Colour gamut Display response rise/fall Maximum refresh rate	WVA <ul> <li>I6:10</li> <li>250 cd/m<sup>2</sup></li> <li>0.18 x 0.18 mm</li> <li>141 ppi</li> <li>NTSC</li> <li>45%</li> <li>25 ms</li> <li>60 Hz</li> </ul>	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity Ethernet LAN (RJ-45) ports HDMI ports quantity * HDMI version DisplayPorts quantity Combo headphone/mic port Charging port type USB Type-C DisplayPort Alternate Mode <b>Performance</b>	1 1 1.4 1 ✓ DC-in jack ✓
Contrast ratio (typical)	1000:1	Motherboard chipset	Intel SoC
Processor		Temperature sensor	✓
Processor manufacturer * Processor family * Processor generation Processor model * Processor cores	Intel Intel Core 5 Intel Core (Series 1) 120U 10	Keyboard Pointing device Numeric keypad * Keyboard backlit	Touchpad ✓

Processor base frequencySGP2 SGP2 Trial software64-bit McAfee 12 Months Business Security, Microsof Order Security, Microsof Order SecurityProcessor cache type Processor cache type15 VProcessor cache type15 VProcessor cache type15 GBInternal memory, 16 GBAc adapter inquiencyInternal memory, 19DRS-SDAMA A Cadapter inquiencyMemory form factorSoD0 MitzMemory form factorSoD0 MitzMemory form factorSoD0 MitzMemory form factorSoD0 MitzMaximu internal memory, 1917BCable lock sistYMaximu internal memory17BCable lock sistYSolorage capacity17BToti Sobs capacity17BToti Sobs capacity17BSobs capacity17BSobs formal careNon-operating MicrolSob	Dresser		Coffmente	
Processor boost frequency5 GHzTila isoftwareSocial Microsoft BusinessPerformance cores2Operating system installed *Windows 11 HomePerformance-core Max Turbo5 GHzBatteryHerryPerformance-core base frequency3 GHzBattery technologyUtilium Polymer (LIPo)Performance-core base frequency0 GHzBattery technology4 (Home)Processor cache12 MBBattery technology3 hProcessor cache type5 SWBattery veltage1 hProcessor cache type5 SWBattery veltage3 hProcessor cache type5 SWBattery veltage100 - 240 yMaximum Linde power15 GBAC adapter power55 WHennary tilots size)2 x 8 GBAC adapter output current3 34 AMemory linyout (slots x size)2 x 8 GBAC adapter output voltage100 - 240 yMemory slots2 x 50-DIMAC adapter output current3 4 AMemory slots2 x 50-DIMCable lock slot type✓Memory linyout (slots x size)2 x 8 GBAC adapter output voltage100 - 240 yMemory slots3 CBCable lock slot type✓Memory futbat carled entrenter50 DCable lock slot type✓ <tr< td=""><td>Processor</td><td>12</td><td>Software</td><td>64 h ''</td></tr<>	Processor	12	Software	64 h ''
performance cores2NameSeturyEfficient coresS GHzOperating system installedWindows 11 HomePerformance-core Max TurboS GHzBatteryLHum Polymer (LPo)Performance-core base frequency1.6 GHzBattery technology4Performance-core base frequency0.9 GHzBattery capacity*5 VProcessor cache1.2 M8Battery capacity*5 VProcessor cache1.5 WBattery capacity*2.4 GHzProcessor cache typeS WallBattery charge time3.hProcessor cache speare1.5 GBBattery charge infeator2.40 gInternal memory*15 GBBattery charge infeator2.00 GHzInternal memory*15 GBCadapter power50506 HzInternal memory*15 GBCadapter input voltage100 - 240 VMemory fock speed2.20 GHZAC adapter input voltage100 - 240 VMemory layout (sints scie)2.x SO-DIMMAC adapter input voltage100 - 240 VMemory layout (sints scie)2.x SO-DIMMAC adapter output current3.34 AMemory layout (sints scie)2.x SO-DIMMCadapter output voltage100 - 240 VMemory layout (sints scie)2.x SO-DIMMCadapter output voltage100 - 240 VMemory layout (sints scie)2.x SO-DIMMCadapter output voltage100 - 240 VMemory layout (sints scie)2.x SO-DIMMCadapter output voltage100 - 240 VMemory layout (sints scie)2.x SO-DIMMCadapter output voltage100 -			Operating system architecture	
Efficient core80erding system installed*Windows 11 HomePerformance-core Max Turb Frequency3.6 GHzBattery technologyLithium Polymer (LiPo)Efficient-core Max Turb Frequency3.6 GHzBattery calculaty5.4 WhPerformance-core base frequency0.6 GHzBattery calculaty5.4 WhEfficient-core base frequency0.6 GHzBattery calculaty5.4 WhProcessor cache typeSmart CacheFast chargingtime-Processor base power5.5 WBattery calculatyMaximu Turbo power5.6 WEastery calculaty6.6 SW-Maximu Turbo power5.6 GMCadapter frequency5.0 SW-Internal memory type0.0 GBSCadapter frequency0.0 -240 V-Memory tork Speed5.00 MHzCadapter frequency0.0 -240 V-Memory tork Speed5.00 MHzCadapter frequency0.0 -240 V-Memory tork Speed5.00 MHzCadapter frequency0.0 -240 V-Memory tork factor5.00 MHzCadapter frequency0.0 -240 V-Memory tork factor5.00 MHzCadapter frequency0.0 -240 V-Memory tork factor5.00 MHzCadapter frequency0.0 -240 V-Memory tork factor3.0 GHZCadapter frequency0.0 -240 V-Memory tork factor3.0 GHZCadapter frequency0.0 -240 V-Memory tork factor3.0 GHZCadapter frequency0.0 -240 V-Mem			Trial software	
Frequency5 for1 dataEfficient-core Max Turbo Frequency3.8 GHzBattery technology4.4Processor cache1.4 GHzBattery recharge time5.4 WhEfficient-core base frequency0.9 GHzBattery recharge time3.hProcessor cache typeSmat CacheFast Cariging-Processor cache typeSmat CacheFast Cariging-Maximu turbo power5.5 WBattery recharge time3.hProcessor base power15 WBattery recharge time3.hMaximu turbo power5.5 WBattery recharge time2.4 0 gInternal memory*1.6 GBC datpter power65 WInternal memory bypeDDR5-SDAMA.C datpter froquency5.06 0 HzMemory look speed5200 MHzA.C datpter input voltage1.9.5 VMemory look speed5200 MHzA.C datpter unput voltage1.9.5 VMemory look speed5200 MHzA.C datpter output voltage1.9.5 VMemory look speed5200 MHzC datpter unput voltage1.9.5 VMemory look speed5200 MHzA.C datpter output voltage1.9.5 VMemory look speed5200 MHzC datpter output voltage1.9.5 VTota			Operating system installed *	Windows 11 Home
Prequency Efficient-core base frequency3.8 GHzBattery technologyLikum Polymer (LPo)Performance-core base frequency1.4 GHzNumber of battery cells4Efficient-core base frequency0.9 GHzBattery voltage5.4 WhEfficient-core base frequency1.2 MBBattery voltage3.hProcessor cache1.2 MBBattery voltage3.hProcessor cache bypeStart CacheFast charging*Processor base power1.5 WBattery velage function*Maximum turbo power5.5 WBattery velage function*Internal memory typeDDR5-SDRAMAC adapter power6.5 WMemory function1.6 GBAC adapter input voltage100-240 VMemory function5.0 UMMAC adapter input voltage100-240 VMemory function5.0 UMMAC adapter output current3.34 AMemory function5.0 UMMAC adapter output current3.34 AMemory function3.2 GBUSB Power Dellvery (USB PD) **Memory function3.2 GBUSB Power Dellvery (USB PD) **Memory function3.2 GBUSB Power Dellvery (USB PD) **Memory function3.2 GBCable lock slot type*Memory function1.TBCable lock slot type*Storage media5.50Trusted Platform Module (TPM)*Storage media5.50Storage media**Storage media1.TBPower platform Module (TPM)*Storage med		5 GHz	Battery	
Performance-core base frequency1.4 GHzNumber of battery cells4Efficient-core base frequency0.9 GHzBattery voltage5.4 WhProcessor cache12 MBBattery voltage15.VProcessor cache typeSmat CacheFast Charging-/Processor base power15 WBattery variage indicator/Maximum turbo power55 WBattery variage indicator/Maximum turbo power65 WBattery variage indicator/Internal memory typeDDR5-SDRAMAC adapter power65 WMemory fuck speed500 MHzAC adapter input voltage100 - 240 VMemory fuck speed500 MHZAC adapter input voltage100 - 240 VMemory fuck speed500 MHZAC adapter input voltage100 - 240 VMemory fuck speed500 MHZAC adapter output voltage100 - 240 VMemory fuck speed500 MHZAC adapter output voltage100 - 240 VMemory fuck speed5200 MHZAC adapter output voltage100 - 240 VMaximum internal memory32 GBUSB Power Delivery (USB PD) *VMaximum internal memory32 GBUSB Power Delivery (USB PD) *VMaximum internal memory32 GBCale lock slot typeVStorage capacity1 TBTrusted Platform Module (TPM)VStorage instaled1 TBPostword power0 - 40 · CStorage instaled1 ROperating relative humidity (H+H)1 - 90%Storage interfaceSD SDHC, SDXCNon-op			Battery technology	Lithium Polymer (LiPo)
Efficient-core base frequency0.9 GHzBattery capacity*54 WnProcessor cache12 MBBattery voltage15 VProcessor cache typeSmart CacheBattery voltage3 hProcessor cache type15 WBattery vecharge time3 hProcessor cache type15 WBattery vecharge time4 nMaximun turbo power15 GBProcessor cache240 gInternal memory*16 GBPower500 MLInternal memory typeDDRS-SDRAMAC adapter foquency500 GHZMemory clock speed5200 MHzAC adapter foquency500 GHZMemory layout (slots size)2 x 8 GBAC adapter output current334 AMemory data transfer rate32 GBUSB Power Delivery (USB PD)*Memory data transfer rate2200 MT/SCable lock slotStorage17 BCable lock slotStorage media55DTrusted Platform Module (TPM)Number of SSDs installed1Trusted Platform Module (TPM)Number of SSD intrafecPCI Express 4.0Poreating temperature (T-T)40-65 °CSSD form factorXStorage temperature (T-T)40-65 °CSSD form factorXStorage temperature (T-T)40-65 °CSSD interfacePCI Express 4.0Poreating temperature (T-T)40-65 °CSSD interfaceStorage temperature (T-T)40-65 °CSSD interfaceStorage temperature (T-T)40-65 °CSSD interfaceStorage temperat			Number of battery cells	4
Processor cache Processor cache typeJa Ma Stracke Fat chargingJa Ma Fat ch				
Processor base powerIS Wat Past charging*Processor base powerSS WBattery charging*Maximum turbo powerSS WBattery weight240 gInternal memory *16 GBPowerInternal memory *DDBS-SDRAMAC adapter power65 WMemory form factorSOO MHzAC adapter input voltage100 - 240 VMemory form factorSOO MHZAC adapter input voltage100 - 240 VMemory form factorSOO MHZAC adapter input voltage100 - 240 VMemory slots2 x SO-DIMMAC adapter output voltage100 - 240 VMaximum internal memory *2 GBUSB Power Delivery (USB PD) **Maximum internal memory *3 GGSecurity*Storage capacity *1 TBCable lock slot typeVedgeTotal storage capacity *1 TBCable lock slot type.0Storage endia*SSDTrusted Platform Module (TPM).0SSD interfacePCI Express 4.0Version.0SSD interfaceNVAeStorage relative humidity (H-H)0.90%Compatible memory cardsSD-CS, SXCNon-operating altitude1.52 · 10666 mSSD form factorMazStorage relative humidity (H-H)0.90%SSD form factorMazStorage relative humidity (H-H)0.95%SD form factorMazStorage relative humidity (H-H)0.90%Compatible memory cardsSD-CS, SXCNon-operating altitude1.52 · 10666 mSD form factorMaz	Processor cache	12 MB		
Processor base power15 WBattery charge indicator·Maximum turbo power55 WBattery weight240 gInternal memory *16 GBPowerInternal memory *16 GBAC adapter power65 WMemory clock speed5200 MHzAC adapter input voltage100 - 240 VMemory layout (slots size)2 x 8 GBAC adapter output current334 AMemory dat transfer rate200 MHzAC adapter output voltage195 VMemory dat transfer rate200 MT/SSecurity·Storage capacity1 TBCable lock slot·Total storage capacity1 TBVersion·Storage media*SSDTrusted Platform Module (TPM)·SSD capacity1 TBPassword protection·SSD installed1Version·SSD instratcePCI Express 4.0Operating temperature (T-T)0 - 40 °CSSD form factorM.2Operating temperature (T-T)0 - 40 °CSSD form factorM.2Operating temperature (T-T)0 - 40 °CSSD form factorM.2Storage temperature (T-T)0 - 40 °CSSD form factorM.2Operating temperature (T-T)0 - 40 °CSSD form factorM.2Storage temperature (T-T)0 - 40 °CS	Processor cache type	Smart Cache	, ,	
maximul outo powerjs wBattery weight240 gMemory16 GBPowerInternal memory 'weDDRS-SDRAMAC adapter power65 WMemory fouck speed500 MHzAC adapter power500 Gh HzMemory form factorSO-DIMMAC adapter input voltage100 - 240 VMemory form factorSO-DIMMAC adapter output current3.34 AMemory layout (slots x size)2 x 8 GBAC adapter output voltage19.5 VMemory data transfer rate5200 MT/sSecurity*Memory data transfer rate5200 MT/sSecurity*StorageTrusted Platform Module (TPM)Total storage capacity1 TBCable lock slot version*Storage mediaSDTrusted Platform Module (TPM)Storage mediaSDTrusted Platform Module (TPM)SD torm factorM.2Operating temperature (T-T)0.40 °CSD torm factorM.2Storage regreature (T-T)40 · 65 °COptical drive typeXOperating relative humidity (H-H)0.95%Compatible memory cardsSD.SDHC, SDXCNon-operating slutude140 GOptical drive typeKOperating relative humidity (H-H)0.95%Compatible memory cardsSD.SDHC, SDXCNon-operating slutude140 GOptical drive typeKOperating relative humidity (H-H)0.95%Compatible memory cardsSD.SDHC, SDXCNon-operating slutude140 GOn-bard GZM unandiacturerIn	·		5 5	
Memory16 GBPowerInternal memory typeDDR5-SDRAMAC adapter power65 WMemory clock speed5200 MHzAC adapter input voltage100 - 240 VMemory form factorSO-DIMMAC adapter output voltage100 - 240 VMemory slots2 x SO-DIMMAC adapter output voltage19.5 VMemory slots2 x SO-DIMMAC adapter output voltage19.5 VMaximum internal memory*32 GBUSB Power Delivery (USP DP)*Memory alout famsfer rate5200 MT/SSecurityVStorageCable lock slotTotal storage capacity*1 TBCable lock slot typeWedgeStorage media*SSDSSDTrusted Platform Module (TPM)Number of SSDs installed1version2.0SSD form factorM.2Operating temperature (T-T)SSD form factorM.2Storage relative humidity (H-H)10 - 90%Card reader integratedOperating relative humidity (H-H)10 - 90%Card reader integratedNon-operating shock160 GOn-baord graphics card*×Sustainability13.2 - 10668 mOn-baord graphics card*Not availableOperating vibration1.3 GOn-baord graphics card*×Sustainability complianceOn-baord graphics card*×Sustainability complianceOn-baord graphics card*×Sustainability complianceOn-baord graphics card*×S	•	55 W		
Internal memory %pe DRS-SDRAM AC adapter power 55 W Memory Clock speed 5200 MHz AC adapter input voltage 50/60 Hz Memory form factor SO-DIMM AC adapter input voltage 100 - 240 V Memory layout (slots x size) 2 x 8 GB AC adapter output voltage 19.5 V Memory slots 2 x 50-DIMM AC adapter output voltage 19.5 V Memory slots 2 x 50-DIMM AC adapter output voltage 19.5 V Memory data transfer rate 5200 MT/s CA adapter output voltage 19.5 V Memory data transfer rate 5200 MT/s CA adapter output voltage Verse Delivery (USB PD) * Total storage capacity * 17B CAble Cok slot type Verse Storage media * SSD T Trusted Platform Module (TPM) * Total SSDs capacity 1 TB Trusted Platform Module (TPM) * SSD capacity 1 TB Password protection version * SSD capacity 1 TB Password protection * SSD form factor M2 Capace Storage temperature (T-T) 0 - 40 ° C SSD form factor M2 Capace Storage temperature (T-T) 0 - 40 ° C SSD form factor M2 Storage temperature (T-T) 0 - 95% Compatible memory cards 50, SDHC, SDXC Operating relative humidity (H+H) 0 - 95% Compatible memory cards 50, SDHC, SDXC Operating relative humidity (H+H) 0 - 95% Compatible memory cards 10, SDHC, SDXC Operating vibration 0.66 G Operating vibration 0.66 G Operat	-			
International propertionDecompositionAC adapter frequencySoli60 HzMemory form factorSO-DIMMAC adapter input voltage100 - 240 VMemory layout (slots size)2 x 8 GBAC adapter output current3.34 AMemory dotat transfer rateS200 MHzAC adapter output voltage19.5 VMaximum internal memory*32 GBSecurity*StorageS200 MT/SSecurity*Total storage capacity*1 TBCable lock slot typeWedgeTotal SDS capacity1 TBTrusted Platform Module (TPM)2.0Storage media*SSDTrusted Platform Module (TPM)2.0SDS capacity1 TBPasword protection*SDS capacity1 TBPasword protection*SDS form factorM2Operating relative humidity (HH)0.90%SDS form factorM2Storage temperature (T-T)0.40 °COptical drive type*XNon-operating altitude15.2 · 10668 mOptical drive type*Not availableNon-operating shock100 GOn-board GPU manufacturerIntelNon-operating shock106 GOn-board graphics card*Not availableSustainability centificates1.3 GOn-board graphics card*Not availableSustainability centificates1.3 GOn-board GPU manufacturerIntelSustainability centificates1.3 GOn-board graphics card*XSustainability centificates1.3 GOn-board graphics card*XSustainability centif	•			65 W
Inclusion back spectScholm in accordingAC adapter input volage100 - 240 VMemory find factorSO-DIMMAC adapter output current3.34 AMemory slots2 x S GBAC adapter output current3.34 AMemory slots2 x S O-DIMMAC adapter output current3.34 AMaximum internal memory3 2 GBUSB Power Delivery (USB PD)Memory data transfer rate5200 MT/sSecurityVent PolityTotal storage capacity1 TBCable lock slot typeWedgeStorage mediaSSDTrusted Platform Module (TPM)Number of SSDs installed1Trusted Platform Module (TPM)Number of SSDs installed1Password protectionSSD form factorM.2Operating temperature (T-T)SSD form factorM.2Storage temperature (T-T) </td <td></td> <td></td> <td></td> <td></td>				
Nemory layout (slots x size)2 x 8 GBAC adapter output current3.34 AMemory slots2 x 50-DIMMAC adapter output voltage19.5 VMaximum internal memory32 GBUSB Power Delivery (USB PD)**Memory data transfer rate200 MT/sSecurity*StorageCable lock slot**Total storage capacity*1 TBCable lock slot typeWedgeStorage mediaSSDTrusted Platform Module (TPM)*Total SDS capacity1 TBPassword protection*SSD interfacePCI Express 4.0Yuesion*NVMe-Operating temperature (T-T)0 - 40 °CSSD form factorM.2Operating temperature (T-T)-40 - 65 °COptical drive type*XOperating shock100 GCompatible memory cardsSD, SDHC, SDXCNon-operating shock140 GDiscrete graphics card model*Not availableNon-operating shock100 GOn-board graphics card*×Sustanability compliance1.3 GOn-board graphics card*XSustanability compliance1.3 GOn-board graphics card*XSustanability compliance1.3 GOn-board graphics card*XSustanability compliance1.3 GOn-board graphi				
Maximum internal memory* Maximum internal memory* Memory data transfer rate32 GBUSB Power Delivery (USB PD)*Memory data transfer rate5200 MT/sSecurityStorageCable lock slotTotal storage capacity*1 TBCable lock slot typeWedgeStorage media *SSDTrusted Platform Module (TPM)Total SDs capacity1 TBTrusted Platform Module (TPM)Number of SSDs installed1SSD capacity1 TBPassword protectionSSD interfacePCI Express 4.0Operating temperature (T-T)0 - 40 °CSSD form factorM.2Operating relative humidity (H+H)0 - 90%Card reader integratedXOperating relative humidity (H+H)0 - 90%Compatible memory cardsSD, SDHC, SDXCNon-operating slock160 GOn-board graphics card *Operating slock160 GOn-board graphics card *×Sustainability compliance.66 GOn-board graphics card *×Sustainability compliance.66 GOn-board graphics card *×Sustainability compliance.Audio chipRealtek ALC3254Weight & dimension.50.8 mmAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Operating floct.652 cmSond graphics rand *Sustainability compliance.652 cmAudio systemMaxxAudio ProWidth356.8 mmN	•		AC adapter output current	3.34 A
Memory data transfer rate5200 MT/sSecurityStorage5200 MT/sCable lock slot/Total storage capacity *1 TBCable lock slot typeWedgeStorage media *SSDTrusted Platform Module (TPM)/Total SDS capacity1 TBTrusted Platform Module (TPM)2.0SSD capacity1 TBPassword protection/SSD interfacePCI Express 4.0Operating temperature (T-T)0 - 40 °CSSD interfacePCI Express 4.0Operating temperature (T-T)-0 - 40 °CSSD form factorM.2Storage temperature (T-T)-0 - 40 °CSSD form factorM.2Storage temperature (T-T)-0 - 65 °COptical drive type *×Operating relative humidity (H+H)10 - 90%Card reader integrated×Storage relative humidity (H+H)10 - 90%Card reader integrated×Operating shock160 GDiscrete graphics card model *Not availableNon-operating shock160 GOn-board graphics card *×Sustainability compliance×On-board graphics card model *Intel GraphicsSustainability compliance×Audio chipRealtek ALC3254Weight & dimensionsXAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 ccnNumber of built-in speakers2Depth249.5 mmNumber of built-in speaker	Memory slots	2x SO-DIMM	AC adapter output voltage	19.5 V
Storage         Cable lock slot         ✓           Total storage capacity*         1 TB         Cable lock slot type         Wedge           Storage media*         SSD         Tusted Platform Module (TPM)         ✓           Total SSDs capacity         1 TB         Tusted Platform Module (TPM)         ✓           Number of SSDs installed         1         Tusted Platform Module (TPM)         ✓           SSD capacity         1 TB         Trusted Platform Module (TPM)         ✓           SSD statalled         1         Password protection         ✓           SSD terface         PCI Express 4.0         Operating temperature (T-T)         <40 - 65 °C	Maximum internal memory *	32 GB	USB Power Delivery (USB PD) *	<i>✓</i>
Total storage capacity1 TBCable lock slot typeWedgeStorage mediaSSDTrusted Platform Module (TPM)Total SSDs capacity1 TBTrusted Platform Module (TPM)2.0Number of SSDs installed1VersionSSD capacity1 TBPassword protectionSSD treffacePCI Express 4.0Operating temperature (T-T)-40 - 65 °CNVMeOperating temperature (T-T)-40 - 65 °COptical drive typeXOperating relative humidity (H-H)10 - 90%Card reader integratedStorage temperature (T-T)-40 - 65 °COptical drive typeXOperating relative humidity (H-H)0 - 95%Compatible memory cardsSD, SDHC, SDXCNon-operating altitude-15.2 - 10668 mOn-board graphics card modelNot availableOperating shock160 GOn-board graphics card modelIntelNon-operating shock160 GOn-board GPU manufacturerIntelNon-operating vibration.3 GOn-board graphics card modelIntel GraphicsSustainability complianceAudio chipRealtek ALC3254Weight & dimensionsSustainability complianceAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeaker power2 WHeight (ront)1.62 cm	Memory data transfer rate	5200 MT/s	Security	
Storage media*SSDTrusted Platform Module (TPM)Total SSDs capacity1 TBTrusted Platform Module (TPM)2.0Number of SSDs installed1Password protection2.0SSD capacity1 TBPassword protectionSSD interfacePCI Express 4.0Operating temperature (T-T)0 - 40 °CSSD form factorM.2Operating temperature (T-T)- 40 - 65 °COptical drive type*XOperating temperature (T-T)- 40 - 65 °CCord reader integrated<	Storage		Cable lock slot	✓
Total SSDs capacity1 TBTrusted Platform Module (TPM) version2.0Number of SSDs installed12.0SSD capacity1 TBPassword protection✓SSD interfacePCI Express 4.0 <b>Operational conditions</b> ✓NVMe✓Operating temperature (T-T)0 - 40 °CSSD form factorM.2Storage temperature (T-T)40 - 65 °COptical drive type *XOperating relative humidity (H-H)10 - 90%Card reader integrated✓Storage relative humidity (H-H)0 - 95%Compatible memory cardsSD, SDHC, SDXCNon-operating shock160 GDiscrete graphics card model *Not availableOperating vibration0.66 GOn-board graphics card *×Sustainability1.3 GDiscrete graphics card model *Intel GraphicsSustainability compliance✓Number of built-in speakersXSustainability compliance✓Audio chipMaxAudio ProWidth356.8 mmNumber of built-in speakers2Depth4.95 mmSustainability crear)Jide CremJide CremSustainability of built-in speakers2Depth1.62 cmSustainability crear)Jide CremJide CremJide CremSustainability crear)Jide CremJide CremJide CremSustainability complianceJide CremJide CremJide CremAudio systemMaxAudio ProDiepth356.8 mmNumber of built-in speakers2Depth<			Cable lock slot type	Wedge
Number of SSDs installed1Instance version2.0SSD capacity1 TBPassword protectionSSD interfacePCI Express 4.0Operational conditionsNVMeOperating temperature (T-T)0 - 40 °CSSD form factorM.2Storage temperature (T-T)40 - 65 °COptical drive type *XOperating relative humidity (H-H)10 - 90%Card reader integratedSDSDHC, SDXCNon-operating altitude-15.2 - 10668 mCompatible memory cardsSD, SDHC, SDXCNon-operating shock140 GDiscrete graphics card model *Not availableOperating vibration0.66 GOn-board graphics card *×Sustainability-13 GDiscrete graphics card *×Sustainability complianceENERGY STARAudioNon-operating vibration.3 G-Audio chipMaxxAudio ProSustainability complianceENERGY STARAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeaker power2WHeight (rear)1.74 cm			Trusted Platform Module (TPM)	<ul> <li>Image: A set of the set of the</li></ul>
SSD capacity1TBPassword protectionImplementationSSD interfacePCI Express 4.0Pertational conditionsNVMeImplementationOperating temperature (T-T)0.40 °CSSD form factorM.2Storage temperature (T-T)40 • 65 °COptical drive type *XOperating temperature (T-T)40 • 65 °COptical drive type *XOperating temperature (T-T)40 • 65 °COptical drive type *XOperating relative humidity (H-H)0.95%Card reader integratedImplementationOperating relative humidity (H-H)0.95%Compatible memory cardsSD SDHC, SDXCOperating altitude15.2 • 10668 mOperating relative humidity (H-H)0.95%Operating shock160 GOn-board graphics card model *Not availableNon-operating shock160 GOn-board GPU manufacturerIntelNon-operating vibration0.66 GOn-board graphics card model *Non-operating vibration0.66 GOn-board graphics card model *Non-operating vibration1.3 GOn-board graphics card model *Intel GraphicsSustainability complianceImplementationOn-board graphics card model *Notacting relative humidity (H-H)Non-operating vibrationNon-operating vibrationOn-board graphics card model *Intel GraphicsSustainability complianceImplementationNumber of built-in speakers2Sustainability complianceImplementationAudio systemMaxAudio ProMidthSica mmNum				2.0
SSD interfacePCI Express 4.0Operational conditionsNVMe✓SSD form factorM.2Optical drive type *×Optical drive type *×Card reader integrated✓Card reader integrated✓Compatible memory cardsSD, SDHC, SDXCDiscrete graphics card model *Not availableOn-board graphics card *✓On-board GPU manufacturerIntelDiscrete graphics card *×On-board graphics card *×On-board graphics card *×NumeSustainability complianceDiscrete graphics card *×NumeSustainability complianceNon-operating vibration.0.66 GOn-board graphics card *×Number of built-in speakers2Audio chipRealtek ALC3254Audio systemMaxxAudio ProNumber of built-in speakers2Speakers manufacturerWavesQuertyLeight (front)Speakers power2 WHeight (front)1.62 cm				1
NVMeImage: constraint of the section of t			·	
SSD form factorM.2Storage temperature (T-T)-40 - 65 °COptical drive type *×Operating relative humidity (H-H)10 - 90%Card reader integrated✓Storage relative humidity (H-H)0 - 95%Compatible memory cardsSD, SDHC, SDXCNon-operating altitude-15.2 - 10668 mGraphicsVon operating shock140 G-15.2 - 10668 mDiscrete graphics card model *Not availableNon-operating shock160 GOn-board graphics card *✓Operating vibration0.66 GOn-board GPU manufacturerIntelNon-operating vibration1.3 GDiscrete graphics card model *Intel GraphicsSustainability compliance✓On-board graphics card model *Intel GraphicsSustainability compliance✓Audio chipRealtek ALC3254Weight & dimensions✓Audio systemMaxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeaker power2 WHeight (front)1.62 cm	NVMe	✓	•	0.40.00
Optical drive type *XOperating relative humidity (H-H)10 - 90%Card reader integrated·Storage relative humidity (H-H)0 - 95%Compatible memory cardsSD, SDHC, SDXCNon-operating altitude-15.2 - 10668 mGraphicsOperating shock140 GDiscrete graphics card model *Not availableOperating vibration0.66 GOn-board graphics card *·Operating vibration0.66 GOn-board GPU manufacturerIntelNon-operating vibration1.3 GDiscrete graphics card *×Sustainability compliance·On-board graphics card model *Intel GraphicsSustainability compliance·On-board graphics card *×Sustainability compliance·Audio chipRealtek ALC3254Weight & dimensionsStorage manufacturerAudio systemMaxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeaker power2 WHeight (rear)1.74 cm	SSD form factor	M.2		
Card reader integratedImage: Card reader integratedImage: Card reader integratedImage: Card reader integratedStorage relative humidity (H-H)0 - 95%Compatible memory cardsSD, SDHC, SDXCNon-operating altitude-15.2 - 10668 mGraphicsOperating shock140 GDiscrete graphics card model *Not availableNon-operating shock160 GOn-board graphics card *Image: Card reader integrated0.66 GImage: Card reader integratedOn-board GPU manufacturerIntelNon-operating vibration0.66 GDiscrete graphics card *XSustainability complianceImage: Card reader integratedOn-board graphics card model *Intel GraphicsSustainability complianceImage: Card reader integrated inte	Optical drive type *	×		
GraphicsOperating directedLSE Troood inDiscrete graphics card model *Not availableOperating shock140 GOn-board graphics card *✓Non-operating shock160 GOn-board graphics card *✓Operating vibration0.66 GOn-board GPU manufacturerIntelNon-operating vibration1.3 GDiscrete graphics card *×SustainabilityToronoperating vibrationOn-board graphics card *×Sustainability compliance✓On-board graphics card model *Intel GraphicsSustainability compliance✓AudioRealtek ALC3254Weight & dimensionsENERGY STARAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeaker smanufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	Card reader integrated	<ul> <li>Image: A start of the start of</li></ul>		0 - 95%
Discrete graphics card model *Not availableNon-operating shock160 GOn-board graphics card *·On-operating vibration0.66 GOn-board GPU manufacturerIntelNon-operating vibration1.3 GDiscrete graphics card *×Sustainability·On-board graphics card model *Intel GraphicsSustainability compliance·On-board graphics card model *Intel GraphicsSustainability compliance·Audio chipRealtek ALC3254Weight & dimensionsENERGY STARAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	Compatible memory cards	SD, SDHC, SDXC	Non-operating altitude	-15.2 - 10668 m
Discrete graphics card model***Not availableOperating vibration0.66 GOn-board graphics card *IntelNon-operating vibration1.3 GDiscrete graphics card *×SustainabilityIntelOn-board graphics card model *Intel GraphicsSustainability complianceOn-board graphics card model *Intel GraphicsSustainability complianceAudioRealtek ALC3254Sustainability certificatesENERGY STARAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturer2 WHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	Graphics			
On-board graphics card *On-board GPU manufacturerIntelNon-operating vibration1.3 GDiscrete graphics card *×SustainabilityOn-board graphics card model *Intel GraphicsSustainability complianceAudioIntel GraphicsSustainability certificatesENERGY STARAudio chipRealtek ALC3254Weight & dimensionsSeamondAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturer2 WHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	Discrete graphics card model *	Not available		
On-board GPU manufacturerIntelSurveyDiscrete graphics card *×SustainabilityOn-board graphics card model *Intel GraphicsSustainability complianceAudioMater StateSustainability certificatesENERGY STARAudio chipRealtek ALC3254Weight & dimensionsAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturer2 WHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	5	1	1 5	
Discrete graphics cardIntel GraphicsSustainability complianceIntel GraphicsOn-board graphics card model *Intel GraphicsSustainability complianceIntel GraphicsAudioKealtek ALC3254Sustainability certificatesENERGY STARAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm				
AudioSustainability certificatesENERGY STARAudio chipRealtek ALC3254Weight & dimensionsAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	5 1			,
AudioRealtek ALC3254Weight & dimensionsAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm		inter Graphics		
Audio cmpMatch ResponseWidth356.8 mmAudio systemMaxxAudio ProWidth356.8 mmNumber of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm				
Number of built-in speakers2Depth249.5 mmSpeakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	•		•	356.8 mm
Speakers manufacturerWavesHeight (front)1.62 cmSpeaker power2 WHeight (rear)1.74 cm	-			
			•	
	Speaker power	2 W	Height (rear)	1.74 cm
	Built-in microphone	✓	Carbon footprint	
Number of microphones     2     Total carbon footprint (kg of CO2e)     114	Number of microphones	2	Total carbon footprint (kg of CO2e)	114
Camera Carbon emissions, manufacturing 88	Camera			88
Front camera (kg of CO2e)			-	F
Front camera resolution (numeric) 2.07 MP CO2e)			CO2e)	
Front camera resolution1920 x 1080 pixelsCarbon emissions, energy usage (kg of CO2e)20Front camera HD typeFull HDof CO2e)		·	Carbon emissions, energy usage (kg of CO2e)	20
Video capturing speed 30 fps Carbon emissions, end-of-life (kg of 1			Carbon emissions, end-of-life (kg of	1
Privacy camera 🗸 CO2e) -	Privacy camera	✓		-
Privacy type Privacy shutter Total carbon emissions, w/o use 94 Phase (kg of CO2e)	Privacy type	Privacy shutter		94
PAIA version GaBi version 1, 2024				GaBi version 1, 2024

## Network

Top Wi-Fi standard \*

Wi-Fi standards

Wi-Fi 6 (802.11ax) 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax) Packaging content

Cables included

AC

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.