

## DELL Latitude 3190 Intel® Pentium® Silver N5000 Laptop 29,5 cm (11.6") HD 4 GB LPDDR4-SDRAM 256 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black

Brand : DELL

Product family: Latitude

Article code: BTO001L319011MMCLA

Product name : 3190

DELL Latitude 3190. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Pentium® Silver, Processor model: N5000, Processor frequency: 1,1 GHz. Display diagonal: 29,5 cm (11.6"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: LPDDR4-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 605. Operating system installed: Windows 10 Pro. Product color: Black





| Design                                  |                                 | Ports & interfaces  |                          |
|---|---------------------------------|---|--------------------------|
| Product type *                          | Laptop                          | HDMI ports quantity *                                       | 1                        |
| Product color *                         | Black                           | HDMI version  | 1.4                      |
| Form factor *                           | Clamshell                       | Combo headphone/mic port                                    | 1                        |
| Display                                 |                                 | Keyboard  |                          |
| Display diagonal *                      | 29,5 cm (11.6")                 | Pointing device   | SinglePoint              |
| Display resolution *                    | 1366 x 768 pixels               | Numeric keypad *  | ×                        |
| Touchscreen *                           | ×                               | Island-style keyboard                                       | 1                        |
| HD type                                 | HD                              | Full-size keyboard  | -<br>-                   |
| LED backlight                           | 1                               |   | •                        |
| Native aspect ratio                     | 16:9                            | Windows keys  | v                        |
| Display brightness                      | 220 cd/m <sup>2</sup>           | Software  |                          |
| Dual-screen                             | ×                               | Operating system architecture                               | 64-bit                   |
| Maximum refresh rate                    | 60 Hz                           | Operating system language                                   | English, Spanish, French |
| Processor                               |                                 | Trial software  | Microsoft Office         |
|   | 1.1.1                           | Operating system installed *                                | Windows 10 Pro           |
| Processor manufacturer *                | Intel<br>Intel® Pentium® Silver | Processor special features                                  |                          |
| Processor family *<br>Processor model * | N5000                           | Intel® Anti-Theft Technology                                |                          |
| Processor cores                         | 4                               | (Intel® AT)   | ×                        |
| Processor threads                       | 4                               | Intel <sup>®</sup> Smart Response Technology                | ×                        |
| Processor boost frequency               | 2,7 GHz                         | Intel <sup>®</sup> Identity Protection                      | 1                        |
| Processor frequency *                   | 1,1 GHz                         | Technology (Intel® IPT)                                     |                          |
| Processor cache                         | 4 MB                            | Intel® Hyper Threading Technology<br>(Intel® HT Technology) | ×                        |
| Processor cache type                    | L3                              | Intel® Turbo Boost Technology                               | x                        |
| Processor socket                        | BGA 1090                        | Enhanced Intel SpeedStep                                    | <b>^</b>                 |
| Processor lithography                   | 14 nm                           | Technology  | 1                        |
| Processor operating modes               | 32-bit, 64-bit                  | Intel® Quick Sync Video Technology                          | 1                        |
| Processor codename                      | Gemini Lake                     | Intel® AES New Instructions (Intel®                         | 1                        |
| Stepping                                | B0                              | AES-NI)   | •                        |
| Thermal Design Power (TDP)              | 6 W                             | Intel Enhanced Halt State                                   | 1                        |
| Scenario Design Power (SDP)             | 4,8 W                           | Intel VT-x with Extended Page                               | <b>v</b>                 |
| Tjunction                               | 105 °C                          | Tables (EPT)  |                          |
| Maximum number of PCI Express<br>lanes  | 6                               | Intel® Secure Key   |                          |
| PCI Express slots version               | 2.0                             | Intel <sup>®</sup> OS Guard                                 | ✓                        |
| PCI Express configurations              | 1x4+1x2, 2x1+1x2+1x2, 4x1       | Intel Software Guard Extensions<br>(Intel SGX)              | 1                        |
| ECC supported by processor              | ×                               | Intel 64  | ✓                        |
|   |                                 | Execute Disable Bit   | ✓                        |
|   |                                 |   |                          |

| Internal memory type4 G3Global problem internal memory type4 G3Global problem internal memory type4 G3Termal Memory for game2 A mmMemory for factor0 hoardProcessor code or signal problem internal memory type4 G3Global problem internal problem int   | Memory                            |                                  | Processor special features       |   |
|--|-----------------------------------|----------------------------------|----------------------------------|---|
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| Total storage rapacity*266 GBUART· · · · · · · · · · · · · · · · · · ·   |                                   |                                  | <b>5</b>                         |   |
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| Number of SDD, installedIntel Genomy Protection Technology0.0SDD (herder SDD)256 GBAIntel Secure Key Technology version0.0SDD (herder SDD)XIntel Secure Key Technology version0.0SDD (herder SDD)XIntel Secure Key Technology version0.0SDD (herder SDD)XNumber of SDD)28990Optical dive key and solutionNumber of SDD (herder SDD)28990SDI order graphics card modelNumber of SDD (herder SDD)2000On-board graphics card formityIntelly UHD Graphics GDBattery cancel yea1.4On-board graphics card formityIntelly UHD Graphics GDBattery version1.4On-board graphics card formityIntelly UHD Graphics GDBattery version0.0On-board graphics card formityIntelly UHD Graphics GDBattery version0.0Frequency (max)Intelly UHD Graphics GDBattery version0.00.0Nomber of execution unitsIntelly UHD Graphics GDBattery version0.00.0Nomber of execution unitsIntelly UHD Graphics GDDe in jack0.00.0Nomber of execution unitsIntelly UHD Graphics GDDe in jack0.00.0Nomber of unitsIntelly UHD Graphics GDDe in jack </td <td>5</td> <td></td> <td>57</td> <td><ul> <li>Image: A set of the set of the</li></ul></td> | 5                                 |                                  | 57                               | <ul> <li>Image: A set of the set of the</li></ul> |
| SD capacity266 GBversion100SD interfaceSTAIntel Sacure Rey Technology units0.00Optical dive types*XIntel Sacure Key Technology units0.00Carl reader integratedXX2000Carl reader integratedNo20002000Carl reader integratedNo20002000On-baard graphics card modeNo20002000Discrete graphics card fourXNumber of battery caples3On-baard graphics card fourNoBattery valore1.14 VOn-baard graphics card fourIntel SUHO Graphics GBBattery valore1.14 VOn-baard graphics card fourIntel SUHO Graphics GBBattery valore1.14 VOn-baard graphics card fourIntel SUHO Graphics GBBattery valore1.14 VOn-baard graphics card fourIntel SUHO Graphics GBSUHO Graphics GB0.00 + 2000On-baard graphics card fourIntel SumoA Cadapter frequency0.00 + 2000On-baard graphics card fourSUHO Graphics GB0.00 + 20000.00 + 2000On-baard graphics card fourIntel Sumo0.00 + 20000.00 + 2000On-baard graphics card fourSUHO Graphics GB0.00 + 20000.00 + 2000On-baard graphics card fourIntel Sumo0.00 + 20000.00 + 2000On-baard graphics card fourIntel Sumo0.00 + 20000.00 + 2000On-baard graphics card fourIntel Sumo0.00 + 20000.00 + 2000On-baard graphics card fourIntel Sumo  |                                   |                                  |                                  | 1.00  |
| SD interfaceSTAInitel Stratus Persons Encludog0.00SD form factorM.2Intel Virualization Encludogy versionI.0SD form factorK.2Intel Virualization Encludogy Version2000Card reader integratedNotavallation Encludogy Version2000Discrete graphics card modelNotavallationRetry2000Nobaad graphics cardNotavallationBattery capacity4 WhOn-board graphics card modelIntel WID Graphics SofsBattery voltage1.1.4 VOn-board graphics card modelNobal Softward Softward1.4.4 WhOn-board graphics card modelNobal Softward   |                                   |                                  |                                  | 1,00  |
| SD for dataNACNACNACQicia dive type:NACNACNACCarl reade integrateNACNACNACCarl reade integrateNACNACNACCarl reade integrateNACNACNACDiscee graphics card neadNACNACNACOn-baad graphics card neadSo MatzNACNACOn-baad graphics card neadSo MatzNACNACOn-baad graphics card neadSo MatzNACNACOn-baad graphics card neadSo MatzNACNACNamon obard graphics card neadSo MatzNACNACNamon obard graphics card neadNACNACNACNamon obard graphics c  | SSD interface                     | SATA                             |                                  | 0,00  |
| Optical dive type *X = X = X = X = X = X = X = X = X = X =   | SSD form factor                   | M.2                              |                                  | 1.00  |
| Card sequenciesNot we analysisNot we analysisGraphics card modelNot wailableCondict-Free processorADiscrete graphics card×Secter Graphics card3On-board graphics card modelIncelle UHD GraphicsBattery cachely, and sector of the sector   | Optical drive type *              | ×                                |                                  |   |
| Graphics         Notwailable         Onlict-Free processor         A compariable scard with a valiable           Discrete graphics card model         X         Number of battery cells         3           Discrete graphics card model         Intel® UHD Graphics         Battery oragate/s         42 With           On-board graphics card model         Intel® UHD Graphics         Battery oragate/s         42 With           On-board graphics card model         Intel® UHD Graphics         Battery oragate/s         42 With           On-board graphics card model         Intel® UHD Graphics         Battery oragate/s         42 With           On-board graphics card model         Too MH2         A cadapter frequency         50 HD           On-board graphics card Maxim         Too MH2         A cadapter output current         3.34 A           On-board graphics card Maxim         Res         A cadapter output current         3.34 A           Number of execution units         18.0         Cadapter output current         3.34 A           On-board graphics card Maxim         Res         Cadapter output current         3.34 A           On-board graphics card Maxim         A Cadapter output current         3.34 A           On-board graphics card Maxim         A Cadapter output current         3.34 A           On-board graphics card Maxim   | Card reader integrated            | ×                                |                                  | <i>·</i>  |
| Discrete graphics card model*Not availableConflict-Free processor*On-board graphics card**Number of battery cells3Discrete graphics card andIntel® UHD GraphicsBattery capacity*42 WhOn-board graphics card model*Intel® UHD Graphics 605Battery recharge time4 hOn-board graphics card bardIntel® UHD Graphics 605Battery recharge time4 hOn-board graphics card bardTSO MHZPower50 - 60 HzFrequency750 MHZAC adapter frequency50 - 60 HzOn-board graphics card bard750 MHZAC adapter input voltage100 - 240 VMaximu on-board graphics card bard8 GBAC adapter output current3,34 AMaximu on-board graphics card bard18 OBOclin jack90 - 240 VOn-board graphics card Direct18 OBAC adapter output current3,34 AOn-board graphics card Direct18 OBAC adapter output current3,34 AOn-board graphics card Direct0,3184Cable lock slotNotelOn-board graphics card Direct0,3184Cable lock slotNotelOn-board graphics card Direct20 OPerating temperature (T-1)0,95%0.95%Number of built-in speakers2Operating temperature (T-1)0,95%Speaker power2 WOperating altitude0.9048 mNumber of built-in speakers2Operating altitude0.9048 mSpeaker power2 WOperating altitude0.9048 mNumber of built-in speakers200 fm <td>Graphics</td> <td></td> <td>Processor ARK ID</td> <td>128990</td>  | Graphics                          |                                  | Processor ARK ID                 | 128990  |
| On-board graphics card **×Namber of battery cells3Discete graphics card anilyintel® UHD GraphicsBattery capacity*42 WinOn-board graphics card mailyintel® UHD Graphics 605Battery voltage11.4 VOn-board graphics card batterythel® UHD Graphics 605Battery voltage11.4 VOn-board graphics card battery750 MHzAc adapter prover65 WOn-board graphics card battery750 MHzAC adapter forguency50 - 60 HzAc adapter forguency50 - 60 HzAc adapter input voltage10.9 - 40 VWaximu morbaard graphics card36 GBAC adapter input voltage10.9 - 40 VWaximu morbaard graphics card biard12.0Corrigottery30.4 AOn-board graphics card biard12.0Corrigottery30.4 AOn-board graphics card biard12.0Corrigottery30.4 AOn-board graphics card biard2.0Collact 60 K sitty30.4 AOn-board graphics card biard2.0Collact 60 K sitty40.6 S °COn-board graphics card DirectX2.0Collact 60 K sitty40.6 S °COn-board graphics card Biard2.0Operating altitude0.33 °COn-board graphics card Biard2.0Sorage temperature (T-T)40.6 S °COn-board graphics card Biard2.0Sorage temperature (T-T)40.6 S °COn-board graphics card Biard2.0Sorage temperature (T-T)40.6 S °COn-board graphics card Biard2.0Sorage tendery buindity (H+H)0.90 S °CSorag  | •                                 | Not available                    | Conflict-Free processor          | 1   |
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| Date of upplying and<br>on-board graphics card familyIntel® UHD Graphics 605<br>Battery recharge time42 Wh<br>Battery voltageOn-board graphics card basis<br>frequency1148 UHD Graphics 605<br>Battery recharge time11,4 VOn-board graphics card basis<br>frequency750 MHzAC adapter propuer65 WOn-board graphics card dynamic<br>frequency (mas)750 MHzAC adapter frequency50 of 0.2 AdVOn-board graphics card dynamic<br>frequency (mas)750 MHzAC adapter frequency0.0 - 240 VMaximum on-board graphics card<br>frequency (mas)86 GAC adapter output voltage100 - 240 VMaximum on-board graphics card<br>frequency (mas)86 GAC adapter output voltage100 - 240 VNumber of execution units<br>on-board graphics card family86 GAC adapter output voltage100 - 240 VNumber of execution units<br>or space draft graphics card family86 GAC adapter output voltage100 - 240 VNumber of execution units<br>or space draft graphics card family18 OOn-load graphics card Msuppo40 OOn-board graphics card family18 OCaldapter output voltage100 - 240 VOn-board graphics card Msuppo4 OCaldapter output voltageNoOn-board graphics card Msuppo4 OCaldapter output voltageNoOn-board graphics card Msuppo4 OSoldapter output voltageNoOn-board graphics card Msuppo4 OOperating taltometity (H+I)9 OOn-board graphics card Msuppo2 NoSorage relative humility (H+I)10 O  |                                   | -                                | Number of battery cells          | 3   |
| On-board graphics card model<br>Prequency         Intel® UHD Graphics 605         Battery voltage intel<br>Battery recharge time         14           On-board graphics card burst<br>Prequency (max)         70 MHz         Ac adapter prequency         50 - 60 Hz           On-board graphics card dynamic<br>Prequency (max)         70 MHz         Ac adapter input voltage         50 - 60 Hz           Maximum on-board graphics card dynamic<br>Prequency (max)         70 MHz         Ac adapter input voltage         30 A A           Maximum on-board graphics card Diverst<br>Maximum on-board graphics card Diverst<br>Version         86         Ac adapter output voltage         19.5 V           On-board graphics card Diverst<br>Version         12.0         Cadapter output voltage         30.4 A           On-board graphics card Diverst<br>Version         12.0         Cadapter output voltage         19.5 V           On-board graphics card MS support         4.0         Cadapter output voltage         19.5 V           On-board graphics card MS support         4.0         Cadapter output voltage         10.5 V           On-board graphics card MS support         4.0         Cadapter output voltage         10.5 V           On-board graphics card MS support         4.0         Cadapter output voltage         10.5 V           On-board graphics card MS support         4.0         Cadapter output voltage         10.5 V      <   | 5 1                               |                                  | Battery capacity *               | 42 Wh   |
| Battery rechange under some some some some some some some some   |                                   | ·                                | Battery voltage                  | 11,4 V  |
| frequery200 MR2PowerOn-board graphics card burst<br>requency750 MHzAC adapter power65 WOn-board graphics card dynami<br>requency (max)750 MHzAC adapter input voltage100 - 240 VMaximu on-board graphics card<br>requency (max)8 GBAC adapter output current3,34 AMaximu on-board graphics card DirectX8 GBAC adapter output current3,44 AOn-board graphics card DirectX10.0C-in jack>On-board graphics card DirectX10.0Cating control>On-board graphics card MS upport40.0Cable lock slot typeNobeOn-board graphics card MS upport10.0Cable lock slot typeNobeOn-board graphics card MS upport9.0Cable lock slot typeNobeOn-board graphics card MS upport10.0Cable lock slot typeNobeOn-board graphics card MS upport9.0Storage temperature (T-T)40.6 5 °CAudio chipRealtex ALC3246Storage temperature (T-T)40.6 5 °CNumber of built-in speakers2.0Operating relative humidity (H+H)10.90%Speaker power2.0Operating relative humidity (H+H)9.034 AmSpeaker power1.0Storage relative humidity (H+H)9.0468 MSpeaker power2.0Operating relative humidity (H+H)9.0468 MSpeaker power1.0Storage relative humidity (H+H)9.0468 MSpeaker power1.0Storage relative humidity (H+H)9.01668 MSpeaker power1.0Storage   | 5                                 | ·                                | Battery recharge time            | 4 h   |
| frequeryNameAct adapter power50 WOn-baard graphics and ymami<br>frequency (max)750 MHzAC adapter frequency50 - 60 HzAC adapter input voltage100 - 240 VMaximu on-board graphics and<br>memory8 GBAC adapter output current3,34 AAC adapter output voltage1.50 V1.00 - 240 VNumber of execution units18 GBAC adapter output voltage.95 VOn-board graphics and Direct X12.0Ecurity.90 NobleOn-board graphics and M support1.00 - 200 X.90 Noble.90 NobleOn-board graphics and M support0.3184Cable lock slot type0.01 S °COn-board graphics and M support0.3184Cable lock slot type0.31 S °CAutio chipRealtek ALC3246Storage temperature (T-T)4.0 - 65 °CNumber of built-in speakers2Operating relative humidity (H+H)1.90 %Speaker power2 WOperating relative humidity (H+H)5.95 %Built-in microphone2 WOperating relative humidity (H+H)5.95 %Speaker power2 WOperating relative humidity (H+H)5.95 %Speaker power2 WOperating altitude0.3048 mBuilt-in microphone1 MPStorage relative humidity (H+H)5.95 %Speaker power2 WOperating altitude0.3048 mSpeaker power2 WStorage relative humidity (H+H)5.95 %Speaker power1 MPStorage relative humidity (H+H)5.95 %Storage relative humidity (H+H) <td></td> <td>200 MHz</td> <td>Power</td> <td></td>  |                                   | 200 MHz                          | Power                            |   |
| Acadapter input voltage50-60 HzGn-board graphics card Joyna750 MHzAcadapter input voltage10-240 VMaximu no-board graphicsGBAcadapter output currente3,34 AMamor of execution units8 GBAcadapter output voltage19.5 VNumber of execution units12.0 ConjackversionOn-board graphics card Direct12.0 CondectMoleck slot Slot Slot Slot Slot Slot Slot Slot S  |                                   | 750 MHz                          | AC adapter power                 | 65 W  |
| frequery (max)No WirzA C adapter input voltage10.0-240 vMaximum on-board graphics card8 GBCa dapter output current3,34 AA cadapter output voltage19.5 VAc adapter output voltage19.5 VNumber of execution units18Dc-in jack*On-board graphics card Ms suppor12.0Security*On-board graphics card Ms suppor*Cable lock slot type*On-board graphics card Ms suppor*Oable lock slot type*On-board graphics card Ms suppor*Operating temperature (T-T)*Audio chipRelatek ALC3246Storage relengerature (T-T)**Number of built-in speakers2Operating relative humidity (H+H)10.90%Speaker power2Von-operating altitudeo = 3048 mBuilt-in microphone2Operating relative humidity (H+H)0.90%Built-in microphone10Storage relative humidity (H+H)0.90%Front camera resolution (numerie)1MPStorage relative humidity (H+H)0.10668 mFront camera signal format720Storage relative humidity (H+H)0.10668 mFront camera signal format1280 x20 pixelsStorage relative humidity (H+H)0.10668 mFront camera signal format1280 x20 pixelsStorage relative humidity (H+H)0.10668 mFront camera signal format1280 x20 pixelsStorage relative humidity (H+H)0.2068 mFront camera signal format1280 x720 pixelsStorage relative humidity (H+T)0.206 m<   |                                   |                                  | AC adapter frequency             | 50 - 60 Hz  |
| memoryReadAC adapter output voltage19.5 VNumber of execution units18DC-in jackOn-board graphics card DirectX12.0SecurityOn-board graphics card MsuppotCable lock slotOn-board graphics card MsuppotCable lock slot cypeNobleOn-board graphics card Due XXOasta4Cable lock slot typeNobleOn-board graphics card Due XXOasta4Cable lock slot typeNobleOn-board graphics card Due XXOperational conditionsAudio chipRealtek ALC3246Storage temperature (T-T)0.35 °CNumber of built-in speakers2Operating relative humidity (H+H)10.90%Speaker power2Operating altitude0.3048 mBuilt-in microphone2Operating altitude0.3048 mBuilt-in microphone1MPSustainability certificatesNon-Operating altitude0.3048 mFront camera resolution (numeri)1MPSustainability certificatesNon-Mancel CertificatesFront camera resolution (numeri)1280 x 720 pixelsWidth30.3 mmFront camera resolution (numeri)1280 x 720 pixelsVeight 4 dimensionsFront camera signal format700Yean20.8 mmFront camera signal format1200 x 720 pixelsVeight 4 dimensionsVi-Fi standard'sNi-Fi Storal CertificationAlcaget certification (Certification (Certification (Certificatio  | 5 1 5                             | 750 MHz                          | AC adapter input voltage         | 100 - 240 V   |
| MemoryAC adapter output voltage19.5 VNumber of execution unitsIBCC adapter output voltage19.5 VOn-board graphics card Die12.0Security✓On-board graphics card LowVCable lock slot typeNobleOn-board graphics card DieVCable lock slot typeNobleGraphics card Open Glusupot✓Operation ethnologie0.35 °CAudio chipRealtek ALC3246Storage temperature (T-T)0.35 °CNumber of built-in speakers2Operating relative humidity (H+H)5.95%Speaker power2Storage temperature (M-H)0.9304 mBuilt-in microphoneVStorage tentive humidity (H+H)5.95%Font camera resolution (numeri)1 MPSustainability certificates0.10668 mFront camera resolution (numeri)1 MPSustainability certificatesSola, 3 mmFront camer   | Maximum on-board graphics card    | 8 GB                             | AC adapter output current        | 3,34 A  |
| On-board graphics card DirectX<br>Version12.0SecurityOn-board graphics card DirectX12.0SecurityVersionOn-board graphics card Dor0x3184Cable lock slot typeNobeGraphics card Open GL suppotIOperating comportance (T-T)0.35 °CAudio chipRealtek ALC3246Storage temperature (T-T)0.40 · 65 °CNumber of built-in speakers2Operating relative humidity (H-H)10 · 90%Speaker power2 WStorage relative humidity (H-H)5 · 95%Built-in microphone2 WOperating relative humidity (H-H)5 · 95%Built-in microphone2 WOperating altitude0 · 3048 mCarear-Nonoperating altitude0 · 3048 mFront camera resolution (numer)1 MPSustainability certificatesENERGY STARFront camera resolution (numer)1 200 × 720 pixelsWeight 4 dimension10.20 mmFront camera resolution (numer)1 200 × 720 pixelsWeight 4 dimension20.3 mmFront camera resolution (numer)1 200 × 720 pixelsDepth20.6 mmFront camera resolution (numer)1 5 (802.11a, 802.11b, 802.11g, 801Adapter included *1.20 × 7.20 pixelsViFiStorage conclusion1.20 × 7.20 pixelsAdapter included *ViFiViFiViFiViFiViFi <t< td=""><td>-</td><td></td><td>AC adapter output voltage</td><td>19.5 V</td></t<>  | -                                 |                                  | AC adapter output voltage        | 19.5 V  |
| version12.0securityOn-board graphics and Va supportCable lock slot typeNobleOn-board graphics card ID0x3184Cable lock slot typeNobleGraphics card Open GL supportOperational conditionsAutioOperational conditionsAudio chipRealtek ALC3246Storage temperature (T-T)-40 - 65 °CNumber of built-in speakers2Operating relative humidity (H-H)10 - 90%Speaker power2 WStorage relative humidity (H-H)5 - 95%Bult-in microphoneOperating altitude0 - 3048 mCameraNoberating altitude0 - 3048 mFront camera esolution (numeri)1MPSustainability certificatesENERGY STARFront camera resolution (numeri)1280 x720 pixelsWidth303,3 mmFront camera resolution (numeri)1280 x720 pixelsVerlight & dimensions20,8 mmFront camera resolution (numeri)1280 x720 pixelsVerlight & dimensions20,8 mmFront camera resolution (numeri)1280 x720 pixelsVerlight & dimensions20,8 mmFront camera signal format70pWidth303,3 mm20,8 mmViefi duranty for this (802.11a, 0)Kekign content20,8 mm20,8 mmViefi standard %Viefi Sta02.11b, 802.11g, Wi-Fi St802.11a, 0Acader included %4.0 muWi-Fi standards2,2ManualAcader included %Acader included %Wi-Fi standards2,2NoulAcader inc  |                                   | 18                               | DC-in jack                       | 1   |
| On-board graphics card ID0x3184Cable lock slot typeNobleGraphics card Open GL support<   |                                   | 12.0                             | Security                         |   |
| Graphics card Open GL supportAudioNeatex ALC3246Operating temperature (T-T)0 - 35 °CAudio chipRealtek ALC3246Storage temperature (T-T)40 - 65 °CNumber of built-in speakers2Operating relative humidity (H-H)10 - 90%Speaker power2 WStorage relative humidity (H-H)5 - 95%Built-in microphone•Operating relative humidity (H-H)5 - 95%Built-in microphone•Operating altitude0 - 3048 mCamera•Sustainability0 - 10668 mFront camera resolution (numeri)1 MPSustainability CertificatesBNERGY STARFront camera resolution 1 MPSustainability CertificatesS03,3 mmFront camera alignal format720pWidth303,3 mmFront camera alignal format720pButh208 mmVideo capturing speed30 fpsHeight20,8 mmViFi••Accalapter included *•ViFi Standards002.111a, 802.111b, 802.110, Wi-Fi Standards4.24 kainability•Vi-Fi standards2x2Narranty card••ViLAN controller modelIntel Dual Band Wireless-AC 826Narranty card•ViLAN controller model*•••Statemature*•••Statemature*•••Statemature*•••Statemature*•••Statemature*•<   | On-board graphics card 4K support | 1                                | Cable lock slot                  | 1   |
| AudioOperating temperature (T-T)0 - 35 °CAudio chipReattek ALC3246Storage temperature (T-T)-40 - 65 °CNumber of built-in speakers2Operating relative humidity (H-H)10 - 90%Speaker power2 WStorage relative humidity (H-H)5 - 95%Built-in microphoneOperating altitude0 - 3048 mCameraNon-operating altitude0 - 10668 mFront cameraSustainability certificatesENERGY STARFront camera resolution (numeric)1 MPSustainability certificatesENERGY STARFront camera resolution (numeric)1280 x 720 pixelsWeight & dimensionsFront camera resolution speade720pWidth303,3 mmFront camera hD typeHDDepth206 mmVi-Fi20,8 mmVi-FiAcadapter included *Vi-Fi Standard *Wi-Fi Standard *Ni-Fi 5 (802.11ac)AC adapter included *Mi-Fi Standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)Ac adapter included *Mi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAutenna type2x2Varranty cardMuLAN controller modelIntel Dual Band Wireless-AC 8265Hore cord included *Ethernet LANXCther featuresBluetoothMaximum internal memory (64-bit)4 GB   | On-board graphics card ID         | 0x3184                           | Cable lock slot type             | Noble   |
| AudioOperating temperature (T-T)0 - 35 °CAudio chipRealtek ALC3246Storage temperature (T-T)-40 - 65 °CNumber of built-in speakers2Operating relative humidity (H-H)10 - 90%Speaker power2 WStorage relative humidity (H-H)5 - 95%Built-in microphone-Operating altitude0 - 3048 mCamera-Non-operating altitude0 - 10668 mFront camera-Storage relative humidity (H-H)5 - 95%Front camera resolution (numeric)1 MPSustainability certificatesENERGY STARFront camera resolution (numeric)1 MPSustainability certificatesENERGY STARFront camera resolution (numeric)1 MPDepth30,3 mmFront camera signal format720pWidth303,3 mmFront camera HD typeHDDepth206 mmViefi-Meight *.21 RgViefi-Meight *.21 RgViefiStorage continueric)Acc adapter included *.Viefi Standard *Wi-Fi (S02.11ac)Manual.Multan tarpe2x2ManualWi-Fi standardsIntel Dual Band Wireless-AC 8265Mewer cord included *.Hurnen typeXMeximum internal memory (64-bit)4 GB   | Graphics card Open GL support     | 1                                | Operational conditions           |   |
| Audio chipRealtek ALC3246Storage temperature (T.T)40 - 65 °CNumber of built-in speakers2Operating relative humidity (H-H)10 - 90%Speaker power2 WStorage relative humidity (H-H)5 - 95%Built-in microphoneOperating altitude0 - 3048 mCameraNon-operating altitude0 - 10668 mFront cameraStorage relative humidity (H-H)5 - 95%Front cameraStorage relative humidity (H-H)0 - 10668 mFront camera resolution (numeric)1MPSustainability certificatesENERGY STARFront camera resolution (numeric)1280 x 720 pixelsWeight & dimensionsENERGY STARFront camera signal format720pWidth303,3 mmFront camera HD typeHDDepth206 mm206 mmVifei0,2 mm208 mmVifei20,8 mm208 mmVifei20,8 mmVifei20,8 mmVifei </td <td>Audio</td> <td></td> <td>•</td> <td>በ - 35 °C</td>  | Audio                             |                                  | •                                | በ - 35 °C   |
| Number of built-in speakers2Operating relative humidity (H-H)10 - 90%Speaker power2 WStorage relative humidity (H-H)5 - 95%Built-in microphone~Operating relative humidity (H-H)5 - 95%Camera~Operating altitude0 - 3048 mFront camera resolution (numeric)1MPSustainability certificatesENERGY STARFront camera resolution (numeric)1280 x 720 pixelsWidth303,3 mmFront camera alph typeHDDepth303,3 mmFront camera alph typeNDDepth206 mmVideo capturing speed30 fpsHeight20,8 mmVi-FiMi-Fi 5 (802.11ac)Keight - 12,7 kgWi-FiSustainability, Sustainability, Sustainab   |                                   | Realter ALC3246                  |                                  |   |
| Name of order invegence2 WStorage relative humidity (H-H)5 - 95%Built-in microphone2 WOperating altitude0 - 3048 mCamera-Non-operating altitude0 - 10668 mCamera-SustainabilityENERGY STARFront camera resolution (numeric)1 MPSustainability certificatesENERGY STARFront camera resolution (numeric)1280 x 720 pixelsWight & dimensions303,3 mmFront camera signal format720pWight303,3 mmFront camera signal format720pDepth206 mmVideo capturing speed30 fpsHeight20,8 mmViefi fi Standard *Vi-Fi 5 (802.11ac)Kedimensiona4,02 mWi-Fi standardsSulta, 802.11b, 802.11g, Wi-Fi 5Acadapter included *-Mi-Fi standards2x2ManualWi-Anton type2x2Narenty cardWi-No controller modelXAcadapter included *-Kuent LANXOperating since of includedKuent LANXAcadapter included *Kuent LANXOperating since of includedKuent LANXAcadapter included *Kuent LANXAcadapter included *Kuent LANXAcadapter included *Kuent LANXAcadapter included *Kuent LANXAcadapter included *   | •                                 |                                  | 5 1 ( )                          |   |
| Built-in microphone·Operating altitude0 - 3048 mBuilt-in microphone·Non-operating altitude0 - 10668 mCamera·StatianbilityStatianbilityFront camera resolution (numeri)1 MPSudainability certificatesBNERGY STARFront camera resolution (numeri)1280 x 720 pixelsWeight & dimensionsStatianbilityFront camera signal format70pWidh30,3 mmFront camera signal format70pVidh206 mmVideo capturing speed30 forPeph20,8 mmViefs·Vight * 10020,8 mmViefi fi standard *·NoraccenteriWi-Fi standard *Viefi Standard *·Nu-Fi standard *Viefi Standard *·Nu-Fi standard *Viefi Standard *·Nu-Fi standard *Niefi Standard *·Nu-Fi standard * <td< td=""><td>•</td><td></td><td>1 5 , ( ,</td><td></td></td<>  | •                                 |                                  | 1 5 , ( ,                        |   |
| CameraNon-operating alitude0 - 10668 mFront camera✓SustainabilityFront camera resolution (numeri)1 MPSustainability certificatesNERGY STARFront camera resolution1 280 x 720 pixelsWeight & dimensionsSUSTARFront camera signal format7 20pWith30,3 mmFront camera HD typeHDDepth20 formVideo capturing speed30 fpsHeight 20030,8 mmFront Camera✓Yeight 20030,8 mmNu-Fir✓Sustainability certificates20,8 mmVi-Fir✓Yeight 20030,8 mmNu-Fir Standard *✓Sustainability certificates30,8 mmNu-Fir Standard *✓Sustainability certificates40,8 mmNu-Fir Standard *✓✓✓✓Nu-Fir Standard *✓✓✓✓<   |                                   |                                  | Operating altitude               | 0 - 3048 m  |
| Front camera✓SustainabilityFront camera resolution (numeri)1 MPSustainability certificatesENERGY STARFront camera resolution1280 x 720 pixelsWeight & dimensions303,3 mmFront camera signal format720pWidth303,3 mmFront camera HD typeHDDepth206 mm206 mmVideo capturing speed30 fpsHeight20,8 mmNetwork✓Weight *1,27 kgWi-FiM-Acadapter included *4,27 kgYi-Fi standardsS0:11n, S0:11b, S0:  | ·                                 |                                  | Non-operating altitude           | 0 - 10668 m   |
| Front camera resolutionIMPSustainability certificatesENERGY STARFront camera resolution1280 x 720 pixelsWeight & dimensions303,3 mmFront camera signal format720,0 comDepth206 mmFront camera HD typeHDDepth20,8 mmVideo capturing speed30 fpsHeight & Oto3,7 kgNetworkVVight *1,27 kgVi-FiMini S (802.11a, 000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11 (000.11), 000.11), 000.11 (000.11), 000.11 (000.11), 000.11), 000.11 (000.11),   |                                   | -                                | Sustainability                   |   |
| Front camera resolution (induction)IMPFront camera resolution1280 x 720 pixelsWeight & dimensionsFront camera signal format720pWidth303,3 mmFront camera signal formatHDDepth206 mmVideo capturing speed30 fpsHeight20,8 mmNetworkVWeight *a Cadapter included *a1,27 kgWi-FiAc dadpter included *aTop Wi-Fi standard *Wi-Fi 5 (802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAntenna type2x2Power cord included *aWLAN controller modelIntel Dual Band Wireless-AC 8265Power cord included *bitBluetoothMaximu internal memory (64-bit)4 GB  |                                   |                                  | Sustainability certificates      | ENERGY STAR   |
| Front camera signal format720pWidth303,3 mmFront camera HD typeHDDepth206 mmVideo capturing speed30 fpsHeight20,8 mmNetworkVieght *1,27 kgWi-FiAc adapter included *Wi-Fi standard *Wi-Fi 5 (802.11ac)AC adapter included *Wi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAntenna type2x2Warranty cardWLAN controller modelIntel Dual Band Wireless-AC 8265Power cord includedEthernet LANXOther featuresBluetoothMaximu internal memory (64-bit)4 GB   |                                   |                                  | Weight & dimensions              |   |
| Front camera HD typeHDDepth206 mmVideo capturing speed30 fpsHeight20,8 mmNetworkWeight *1,27 kgWi-FiAc adapter included *Vi-Fi standard *Wi-Fi 5 (802.11ac)AC adapter included *Wi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAntenna type2x2Warranty cardWLAN controller modelIntel Dual Band Wireless-AC 8265Other featuresBluetoothMaximu internal memory (64-bit)4 GB  |                                   | •                                | 5                                | 202.2 mm  |
| Video capturing speed30 fpsHeight20,8 mmNetworkWeight *1,27 kgWi-FiPackaging contentTop Wi-Fi standard *Wi-Fi 5 (802.11ac)AC adapter included *Wi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAntenna type2x2Warranty cardWLAN controller modelIntel Dual Band Wireless-AC 8265Other featuresBluetooth </td <td>5</td> <td>•</td> <td></td> <td></td>   | 5                                 | •                                |                                  |   |
| NetworkWeight *1,27 kgWi-Fi✓Packaging contentTop Wi-Fi standard *Wi-Fi 5 (802.11ac)AC adapter included *Wi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAntenna type2x2Warranty cardWLAN controller modelIntel Dual Band Wireless-AC 8265Power cord includedEthernet LANXOther featuresBluetooth✓Maximum internal memory (64-bit)Job Charler SchlangerJob Charler SchlangerJune Schl  |                                   |                                  |                                  |   |
| Wi-FiImage: Constraint of the second sec  |                                   | •                                |                                  |   |
| Top Wi-Fi standard *Wi-Fi 5 (802.11ac)AC adapter included *Wi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)ManualAntenna type2x2Warranty cardWLAN controller modelIntel Dual Band Wireless-AC 8265Power cord includedEthernet LANXOther featuresBluetooth<   |                                   | 1                                | 5                                | -   |
| Wi-Fi standards802.11a, 802.11b, 802.11g, Wi-Fi 4<br>(802.11n), Wi-Fi 5 (802.11ac)Manual<br>Warranty cardImport of the standAntenna type2x2Power cord includedImport of the standWLAN controller modelIntel Dual Band Wireless-AC 8265Power cord includedImport of the standEthernet LANXOther featuresImport of the standBluetoothImport of the standMaximum internal memory (64-bit)Import of the stand  |                                   |                                  |                                  | ,   |
| Wi-Fi Standards(802.11n), Wi-Fi 5 (802.11ac)Warranty card✓Antenna type2x2Warranty card✓WLAN controller modelIntel Dual Band Wireless-AC 8265Power cord included✓Ethernet LANXOther featuresBluetooth✓Maximum internal memory (64-bit)4 GB  |                                   |                                  | •                                |   |
| Antenna type     2x2       WLAN controller model     Intel Dual Band Wireless-AC 8265       Ethernet LAN     ×       Bluetooth     ✓       Other features       Maximum internal memory (64-bit)       4 GB  | Wi-Fi standards                   |                                  |                                  |   |
| Ethernet LAN     ×     Other features       Bluetooth     ✓     Maximum internal memory (64-bit)     4 GB  | Antenna type                      | 2x2                              |                                  |   |
| Bluetooth        Bluetooth     Imaximum internal memory (64-bit)     4 GB  | WLAN controller model             | Intel Dual Band Wireless-AC 8265 | Power cord included              | ۷   |
|  | Ethernet LAN                      | ×                                | Other features                   |   |
| Bluetooth version 4.2  | Bluetooth                         | ✓                                | Maximum internal memory (64-bit) | 4 GB  |
|  | Bluetooth version                 | 4.2                              |                                  |   |

## Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A 2 ports quantity \*

**Catalog Object Cloud** 



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