ProductSheet HP Spectre x360 2-in-1 Laptop 14-eu0023dx (979L3UA)



Enhance productivity with the HP Spectre x360 2-in-1 Laptop PC

Elevate your productivity with the HP Spectre x360 14" 2-in-1 Laptop PC. Easily switch between laptop and tablet, and experience the power of built-in AI technology with the latest Intel[®] Processor[1] and advanced collaboration technology that adapts to your way of working—all in a responsibly made laptop.



Go further with built-in AI technology

Built-in AI technology, seamless phone connectivity, and advanced security—the HP Spectre lets you do more.

Crush every ask and task faster than ever before

Do far more, faster, on an Intel[®] Evo[™] Platform powered by the latest Intel[®] Processor.

Intelligent collaboration tools that adapt to you

Show up with a 9MP camera[2], night mode, appearance filters, and AI noise reduction for seamless connectivity.

Featuring

Get a fresh perspective

From a rejuvenated Start menu, to new ways to connect to your favorite people, news, games, and content—Windows 11 is the place to think, express, and create in a natural way.^[7]

Intel® Core™ Ultra

Experience powerful and responsive performance to help your productivity soar. Seamlessly edit, share, and enjoy fantastic 4K entertainment with lightning-fast speed. ^[8]

Intel® Arc™

Unleash your imagination with new Intel[®] Arc™ graphics solutions, hardware, software, and services. All built to help you game, create, and stream—without limits.

OLED display

With display technology that lights each pixel separately, you'll get deeper blacks for richer contrast, enhanced color depth, and more power efficiency than traditional LED screens.

Eyesafe® Certified Display

Eyesafe[®] certified displays meet TÜV low blue light requirements and Eyesafe[®] standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.







Specifications

Operating system Windows 11 Home Product color Night fall black aluminum Processor family Intel® Care® Ultra 7 processor Brocessor family Intel® Care® Ultra 7 processor Chipset Intel® Care® Ultra 7 processor Chipset Intel® Care® Ultra 7 processor Memory 32 681 PD0.RSx-7467 M1/s (nboard) Internal Storage 2 TB PCIe® Gen4 NVM®* TLC M.2 S50 Product design Sandblask keyboard frame finish Graphics Intel® Arc® "aphics Obsplay edge-to-edge glass, inter-edge. anti-effection Corning® Cortil® Gartia® Glass NBT®, Low Blue Light, SDR 400 nits, HDR 500 nit		
Processor family Intel® Core® Ultra 7 processor Processor Intel® Core® Ultra 7 ISSH lup to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 thread53 [6,7] Chipset Intel® Core® Ultra 7 ISSH lup to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 thread53 [6,7] Chipset Intel® Integrated Soc Memory 32 GB LPD0RSs-7467 MT/s (inboard) Internal Storage 2 TB PcIe® Gen4 MVM®** TLC M.2 S50 Product design Sandblast keyboard frame finish Graphics Integrated Graphics Integrated Graphics (Integrated) Sist Core (147) diagonal, 35 (2880 x 1800, DED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWA, S00 nits, HDR 500 nits, HDR 5	Operating system	Windows 11 Home
Intel® core™ Ultra 7 155H (up to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 threads) Processor (6:7) Chipset Intel® Integrated SoC Memory 32 GB LDDDRSx-7467 MT/S (onboard) Internal Storage 2 TB PCIe® Gen4 RVMe* TLC N.2 SSD Product design Samblast keyboard frame finish Graphics Integrated Graphics Integrated So Cm 147 ^o diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-effection Corning® Gorille® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, HDR 500 nits, HDR 500 nits, 1008 OLFP 3 Display 14 ^{ord} diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-effection Corning® Gorille® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits,	Product color	Nightfall black aluminum
Processor (6,7) No. Chipset Intel*Integrated SoC Memory 32 GB LPDDR5x-7467 MT/s (onboard) Internal Storage 2 TB PC(e ² Gen4 NVMe th TLC N.2 SSD Product design Sandblast keyhoard frame finish Graphics Integrated Graphics (Integrated) Integrated Bisplay 35 6 cm (14°) diagonal, 3X (280 x 1800), 0LED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge diget, micro-edge, anti-reflection Corning* Gorilla* Glass NBT**, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCLP3 Display size (diagonal) 35.6 cm (14°) Display size (diagonal) 14* Audio DTS:X*0 UItra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x22.04 x 1.89 cm Bighay size (diagonal) 14* Keight 3.144 kg Weight 3.19 b Keyboard Full-size, backiti, nightfall black keyboard Pointing device Hapic touchad Inture Vision BMP IR camera with Camera shutter, temporal noise reduction and integrated dual array digital Microphones 1.058 Type-2.4 006ps signaling rate (MP Siep and Charge): 1 headphone/microphone combo; 2 Thunderbolt** 4 with US B Type-	Processor family	Intel® Core™ Ultra 7 processor
Memory 32 GB LPDDRSx-7467 MT/s (onboard) Internal Storage 2 TB C(e ² Gen4 MVA® ⁺ TL (N.2.55D) Product design Sandbisst keyboard frame finish Graphics Integrated Graphics Integrated Graphics Singlannal, 3K (2800 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning* Gorilla* Glass MBT**, Low Blue Light, 5DR 400 nits, HDR 500 nits, 100% OL-P3 Display 14* diagonal, 3K (2800 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning* Gorilla* Glass MBT**, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% OL-P3 Display size (diagonal) 14* diagonal, 3K (2800 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning* Gorilla* Glass NBT**, Low Blue Light, SDR 400 nits, HDR 500 nits, HDR	Processor	
Internal Storage 2 TB PCIe* Gen 4 NVMe ¹⁰ TLC M.2 SSD Product design Sandblast keyboard frame finish Graphics Integrated Inter Arc** Graphics 35.6 cm (14)* diagonal, 31 (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, 95.6 cm (14)* diagonal, 31 (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, 950 nits, 100% DCL+93 Display edge-to-edge gats, mitro-edge, anti-effection Corning* Gorilla* Glass NBT**, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCL+93 Display size (diagonal) 35.6 cm (14)* Display size (diagonal) 14* Audio D 55.4 °U1ra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x 82.0 x 1.4 % g Weight 1.44 kg Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Porking device Haptic touchpad Input device Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Wision SMP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports USS Type-A TOGpps signaling rate (HP Steep and Charge); Theadphone/microphone combo; 2 Thunderbolf** 4 with USB Type-C* 40Gpps signaling rate (USB Power Delivery, DisplayPort** 2.1, HP Steep and Charge) ¹⁵ Package weight 3.17 xg.0 Mireless Intel** Wi-FI 6E AX211 (2x2) and Bluetooth* 5.3 wireless card ¹²¹ Power supply type 65 W USB Type-C* power adapter Battery type 4-cells EPAT* Could registered Energy star certified EPAT* Could registered Energy star certified EPAT** Could registered Energy star certified EPAT** Could registered Energy star certified EPAT** Could registered Energy star certified EVERT** Could registered Energy star certified EVERC** STAR** certified Energy star certified EVERC** STAR** certified Energy star certified EVERC** STAR** certified Energy stare cerified EVERC** STAR** certified Energy stare ce	Chipset	Intel [®] integrated SoC
Product design Sandblast keyboard frame finish Graphics Intel®Arc® Graphics Graphics (integrated) Intel®Arc® Graphics 355.6m (147) diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR S00 nits, 1000 NCLP3 Display 14° diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% OLEP3 Display size (diagonal) 35.6 cm (14°) Display size (diagonal) 14° Audio D15.X® Ultra: Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x 82.04 x 1.49 cm Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Ingut devices Accelerometer; Al chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision SMP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-C * 10Gbps signaling rate (US B Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[39] Package dimensions (W x D x H) 3.1.7 kg </td <th>Memory</th> <td>32 GB LPDDR5x-7467 MT/s (onboard)</td>	Memory	32 GB LPDDR5x-7467 MT/s (onboard)
Graphics Integrated Graphics (Integrated) Intel® Arc™ Graphics 355 Gm (141 diagonal, 3K (2800 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCLP3 Display 14* diagonal, 3K (2800 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCLP3 Display size (diagonal) 35.6 cm (14*) Display size (diagonal) 14* Audio D T5:X**Ultra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 12.35 x8.68 x 0.67 in Weight 1.44 kg Weight 3.19 lb Keyboard Fult-isze, backtit, nightfall black keyboard Pointing device Haptic touchpad Ports T USB Type-4 T06bps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C* 400bps signaling rate (US Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ⁽¹⁹⁾ Package dimensions (W x D x H) 31.3 x 4.0.1 x 33 cm Package dimensions (W x D x H) 13.4 x 0.1 x 33 cm Package dimensions (W x D x H) 13.4 x 0.1 x 33 cm	Internal Storage	2 TB PCIe [®] Gen4 NVMe™ TLC M.2 SSD
Graphics (integrated) Intel® Arc™ Graphics Display 35.6 cm (14*) diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, D.2 ms response time, UWVA, edge-to-edge glass, micr-edge, anti-effection Corning® Gorilla® Gass NBT™. Low Blue Light, SDR 400 nits, HDR 500	Product design	Sandblast keyboard frame finish
35.6 cm (14") diagonal, 3K (2880 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Gass NBT™, Low Blue Light, SDR 400 nits, HDR 500 n	Graphics	Integrated
Display edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR SOD nits, 100% DCLP3 Display 14° diagonal, 3K (2800 x 1800), OLED, multitouch-enabled, 48-120 Hz, 0.2 ms response time, UWVA, edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100% DCLP3 Display size (diagonal) 35.6 cm (14°) Display size (diagonal) 14° Audio DTS.X® UItra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x22.04 x 1.69 cm Dimensions (W x D x H) 12.35 x 8.68 x 0.67 in Weight 1.44 kg Weight 1.44 kg Weight 1.44 kg Pointing device Haptic touchpad Input devices Accelero meter; Al chip; eCompas; Gyroscope; R thermal sensor Camera HP Wide Vision SMP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-C * 106bps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with US ST Type-C* * 106bps signaling rate (US Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge ⁽¹⁾³ Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wineless Intel Wint-HE & EX211 (2x2) and Bl	Graphics (integrated)	Intel [®] Arc™ Graphics
Display glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100%, DCI-P3 Display size (diagonal) 35.6 cm (14°) Display size (diagonal) 14" Audio DTS:X® Ultra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x 22.04 x 1.69 cm Dimensions (W x D x H) 11.37 x 22.04 x 1.69 cm Dimensions (W x D x H) 12.35 x 8.68 x 0.67 in Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; Al chip; eCompass; Gyroscope; IR thermal sensor HP Wide Wision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-A 106bps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt [™] 4 with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort [™] 2.1, HP Sleep and Charge) ^[19] Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C* power adapter Battery type (1/2) Slory ^[5] Battery type Up to 13 hours ^[3] Battery trecharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] <th>Display</th> <td>edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR</td>	Display	edge-to-edge glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR
Display size (diagonal) 14" Audio DTS:X* Ultra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x 22.04 x 1.69 cm Dimensions (W x D x H) 12.35 x 8.68 x 0.67 in Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; Al chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision SMP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones microphones 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt ^{IM} 4 with USB Type-C ⁴ 40Gbps signaling rate (USB Power Delivery, DisplayPort ^{IM} 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel [®] Wi-Fi 6E AX211 (2x2) and Bluetooth [®] 5.3 wireless card ^[12] Power supply type 65 W USB Type-C [®] power adapter Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPAT [®] Gold registered Energy star certified ENERGY STAR [®] certified Occean-bound plastit in s	Display	glass, micro-edge, anti-reflection Corning® Gorilla® Glass NBT™, Low Blue Light, SDR 400 nits, HDR 500 nits, 100%
Audio DTS:X® Ultra; Quad speakers; HP Audio Boost; Poly Studio Dimensions (W x D x H) 31.37 x 22.04 x 1.69 cm Dimensions (W x D x H) 12.35 x 8.68 x 0.67 in Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision SMP IR Camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-4 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt ^{IM} 4 with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort ^{IM} 2.1, HP Sleep and Charge) ^[19] Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C* power adapter Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT* Gold registered Energy star certified ENERGY STAR* certified Software included McAfee Online Protection 30-day trial Software - Productivity & fina	Display size (diagonal)	35.6 cm (14")
Dimensions (W x D x H) 31.37 x22.04 x1.69 cm Dimensions (W x D x H) 12.35 x8.68 x0.67 in Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; Al chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-C 4 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt ^{m4} 4 with USB Type-C 4 00Gbps signaling rate (USB Power Delivery, DisplayPort ^{m2} 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer ((23)) Battery type EPEAT® Gold registered Energy star certified ENERGY STAR® certified Occam-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Software i	Display size (diagonal)	14"
Dimensions (W x D x H) 12.35 x 8.68 x 0.67 in Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; Al chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision 9M PI R camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-A 106bps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbott [™] 4 with USB Type-C [®] 406bps signaling rate (USB Power Delivery, DisplayPort [™] 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth [®] 5.3 wireless card ^[12] Power supply type 65 W US BType-C [®] power adapter Battery type 4-cell, 68 Wh Li-ion polymer ([223]) Battery trecharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT [®] Cold registered Energy star certified NERGY STAR® certified Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting pl	Audio	DTS:X® Ultra; Quad speakers; HP Audio Boost; Poly Studio
Weight 1.44 kg Weight 3.19 lb Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; Al chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital mic rophones Ports 1 USB Type-A 106bps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C® 406Bps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge). ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer ([23]) Battery type 4-cell, 68 Wh Li-ion polymer ([23]) Battery techarge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Cean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(Dimensions (W x D x H)	31.37 x 22.04 x 1.69 cm
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Keyboard Full-size, backlit, nightfall black keyboard Pointing device Haptic touchpad Input devices Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 11 USB Type-C* 40Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® WI-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer ((23)) Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Pl	Weight	1.44 kg
Pointing device Haptic touchpad Input devices Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C* power adapter Battery type 4-cell, 68 Wh Li-ion polymer ((23)) Battery life Up to 13 hours ^[3] Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Platform Module (Discret	Weight	3.19 lb
Input devices Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor Camera HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer ([23]) Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Platform Module (Discrete TPM) support Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] <th>Keyboard</th> <td>Full-size, backlit, nightfall black keyboard</td>	Keyboard	Full-size, backlit, nightfall black keyboard
Camera HP Wide Vision 9MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones Ports 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer (/23) Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Platform Module (Discrete TPM) support Software neulouded McAfee Online Protection 30-day trial Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24]	Pointing device	Haptic touchpad
Califieral microphones Ports 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer ([23]) Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Platform Module (Discrete TPM) support Software ncluded McAfee Online Protection 30-day trial Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] Cloud service 25 GB Dropbox storage for 12 months ^[11] <th>Input devices</th> <td>Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor</td>	Input devices	Accelerometer; AI chip; eCompass; Gyroscope; IR thermal sensor
Ports with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) ^[19] Package dimensions (W x D x H) 13 x 40.1 x 33 cm Package weight 3.17 kg Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type 65 W USB Type-C® power adapter Battery type 4-cell, 68 Wh Li-ion polymer ([23]) Battery life Up to 13 hours ^[3] Battery recharge time Supports battery fast charge: approximately 50% in 45 minutes ^[5] Ecolabels EPEAT® Gold registered Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Platform Module (Discrete TPM) support Software neluded McAfee Online Protection 30-day trial Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] Cloud service 25 GB Dropbox storage for 12 months ^[1]	Camera	
Package weight3.17 kgWirelessIntel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[12] Power supply type65 W USB Type-C® power adapterBattery type4-cell, 68 Wh Li-ion polymer ([23])Battery lifeUp to 13 hours ^[3] Battery recharge timeSupports battery fast charge: approximately 50% in 45 minutes ^[5] EcolabelsEPEAT® Gold registeredEnergy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame, base, hing cap(s), drop jaw and keyboard supporting plateSecurity managementAll-in-One keyboard; Trusted Platform Module (Discrete TPM) supportSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Ports	
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Sustainable impact specifications recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting plate Security management All-in-One keyboard; Trusted Platform Module (Discrete TPM) support Software included McAfee Online Protection 30-day trial Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] Cloud service 25 GB Dropbox storage for 12 months ^[1]	Energy star certified	ENERGY STAR® certified
Software includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Sustainable impact specifications	recycled plastic; Recycled metal in cover, keyboard frame, base, hinge cap(s), drop jaw and keyboard supporting
Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] Cloud service 25 GB Dropbox storage for 12 months ^[1]	Security management	All-in-One keyboard; Trusted Platform Module (Discrete TPM) support
Cloud service 25 GB Dropbox storage for 12 months ^[1]	Software included	McAfee Online Protection 30-day trial
	Software - Productivity & finance	1 month trial for new Microsoft 365 customers ^[24]
UPC number 197961088687	Cloud service	25 GB Dropbox storage for 12 months ^[1]
	UPC number	197961088687

Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

Messaging Footnotes

[1] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

[2] Camera resolution refers to the image sensor active pixels. The actual image capture pixels depend on the app and/or aspect ratio selected.

[7] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

[8] Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.

Technical Specifications Footnotes

[1] 25 GB of free Dropbox storage for 12 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at https://www.dropbox.com/help/space/hp-promotion. Internet service required and not included.

[3] MobileMark 25 Battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See https://bapco.com/products/mobilemark-25/ for additional details.

[5] Recharges your battery up to 50% within 45 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products. See http://store.hp.com for a full list of product features.

[6] Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

[12] Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where 6GHz is supported.

[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[24] Must activate within 180 days of Windows activation.

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