#### ProductSheet

# HP ZBook Firefly 16 inch G11 Mobile Workstation PC (A11SKLT)



### Step up performance. Not size

Pro-level performance combines with true mobility in this amazingly sleek and powerful laptop. Stay productive wherever you're working with integrated or discrete graphics and processor, Alenhanced webcam and audio, and a stunning display—everything you need to collaborate and manage projects anywhere.



HP recommends Windows 11 Pro for business Step up to pro-level performance

Say goodbye to crashes and multi-task without a hitch with an Intel® CPU[1] and integrated or discrete GPU.[8]

#### Work all day. Anywhere

Stay productive anywhere with our most mobile ZBook. Starting at 3.88 lbs[3] this sleek device is made to move.

#### Connect. Communicate. Collaborate

Work effectively anywhere with Wi-Fi 6E[9], a 5MP camera[2] and AI software to block background noise.[10]

#### **Featuring**

#### Windows 11

Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.

#### Intel® Core™ Ultra Processor

Unleash productivity with a new architecture that delivers power-efficient performance for complex business workloads and is purpose-built for the next era of AI software by sending the right task to the right engine at the right time. [4]

#### **NVIDIA®** Graphics

Tackle your biggest projects with an optional NVIDIA RTX™ A500 Laptop GPU; certified for pro apps.

#### **HP Z Turbo Drive High-speed Storage**

Work without limits in any location with local PCIe storage that's up to 6x faster than SATA SSD, and up to 21x faster than traditional HDD storage. [11]

#### **HP Fast Charge**

Ultra-fast recharge takes you from zero to 50% charge in just 30 minutes. [12]

## **Specifications**

Processor         Intel® Core™ Uttra 7 processor           Processor         Intel® Intel® Intel® Core™ Uttra 7 155H (by to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 16 cores, 22 threads) (c.1)           Chipset         Intel® Integrated SoC           Memory         16 GB DDR5-5600 MHz RAM (1 x 16 GB)           Memory Slots         2 SDDIMM's upports dual channel           Internal Storage         512 GB PCIe® NVMe™ SSD           Graphics         Discrete           Graphics (discrete)         NVIDIA RTX™ ASDO Laptop GPU (4 GB GDDR6 dedicated)           Graphics (integrated)         Integrated           Graphics (integrated)         Intel® Acc™ Graphics           Display         40.6 cm (16 7)           Display (a glagonal)         40.5 cm (16 7)           Display size (diagonal)         16 ° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (193.37)           Display size (diagonal)         16 ° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (193.37)           Display size (diagonal)         16 ° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (193.37)           Display size (diagonal)         16 ° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (193.37)           Display size (diagonal)         16 ° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (193.37)	Operating system	Windows 11 Pro <sup>[1]</sup>
Chipset   Intel® Intel® Intel® and Soc	Processor family	Intel® Core™ Ultra 7 processor
Memory         16 GB DDR5-5600 MHz RAM (1 x 16 GB)           Memory Slots         2 SODIMM; supports dual channel           Internal Storage         512 GB PCIe® NVMe™ SSD           Graphics         Discrete           Graphics (discrete)         NVIDIA RTX™ ASO0 Laptop GPU (4 GB GDDR6 dedicated)           Graphics (integrated)         Intel® Arc™ Graphics           Display         40.6 cm (16° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC           Display (3 Giagonal)         40.6 cm (16°)           Display size (diagonal)         40.6 cm (16°)           Display size (diagonal)         40.6 cm (16°)           Minimum dimensions (W x Dx H)         35.87 x 25.13 x 1.92 cm           Minimum dimensions (W x Dx H)         35.87 x 25.13 x 1.92 cm           Minimum dimensions (W x Dx H)         35.87 x 25.13 x 1.92 cm           Weight         Starting at 1.79 kg (Weight varies by configuration and components.)           Weight         Starting at 3.96 lb (Weight varies by configuration and components.)           Keyboard         HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys           Pointing device         Clickpad with multi-touch gesture support, taps enabled as default           Camera         5 MP IR camera           Ports         2 Thunderbolt™ 4 with USB Type-C* 40Gbps signaling rat	Processor	
Memory Slots         2 S DDIMM; supports dual channel           Internal Storage         512 GB PCIe® NVMe™ SSD           Graphics         Discrete           Graphics (discrete)         NVIDIA RTX™ ASOO Laptop GPU (4 GB GDDR6 dedicated)           Graphics (integrated)         Integrated           Display         40.6 cm (16™) diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC           Display size (diagonal)         40.6 cm (16™)           Display size (diagonal)         16™           Audio         Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio           Minimum dimensions (W x D x H)         35.87 x 25.13 x 1.92 cm           Minimum dimensions (W x D x H)         14.12 x 9.89 x 0.76 in           Weight         Starting at 1.79 kg (Weight varies by configuration and components.)           Keyboard         HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys           Points         5 MP IR camera           Ports         2 Thundrebrolt™ a with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 (25.36.57)           Ports         1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo           Package dimensions (W x D x H)         552 x 69 x 345 mm	Chipset	Intel® Integrated SoC
Internal Storage Graphics Discrete Graphics (discrete) NVIDIA RTX™ ASOO Laptop GPU (4 GB GDDR6 dedicated) Graphics (integrated) Intel® Arc™ Graphics Display 10.6 cm (16® diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display 10.5 diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display isze (diagonal) 10.6 cm (16® diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display size (diagonal) 10.6 cm (16® diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display size (diagonal) 10.6 mlore Audio Audio by Poly Studio, dual stereo speakers, IP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, IND audio Minimum dimensions (W x D x H) 35.87 x 25.13 x 1.92 cm Minimum dimensions (W x D x H) 14.12 x 9.89 x 0.76 in  Starting at 1.79 kg (Weight varies by configuration and components.)  Weight Starting at 3.96 b((Weight varies by configuration and components.)  Keyboard HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys Pointing device Clickpad with multi-touch gesture support, taps enabled as default Camera 5 MP IR camera 2 Thunderbolt™ 4 with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A SGbps signaling rate; 1 HoMil 2.1[25.36.57]  Ports 1 USB Type-A SGbps signaling rate; 1 Homile profile for the profile of the profile o	Memory	16 GB DDR5-5600 MHz RAM (1 x 16 GB)
Graphics (Discrete) NVIDIA RTX™ A500 Laptop GPU (4 GB GDDR6 dedicated) Graphics (Integrated) Intel® Arc™ Graphics Display A0.6 cm (16°) diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display 16° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display size (diagonal) 16° Audio Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio Minimum dimensions (W x D x H) 35.87 x x 5.13 x 1.9 cm Minimum dimensions (W x D x H) 14.12 x 9.89 x 0.76 in Weight Starting at 1.79 kg (Weight varies by configuration and components.) Weight (Weight varies by configuration and components.)  Keyboard HP Premium Quiet Keyboard - spill-resistant, full-size, backlit keyboard with drain and DuraKeys Pointing device (Lickpad with multi-touch gesture support, taps enabled as default Camera 5 MP IR camera  Ports 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 HoMI 2, 125.36.57)  Ports 1 USB Type-A 5Gbps signaling ra	Memory Slots	2 SODIMM; supports dual channel
Graphics (discrete) NVIDIA RTX™ A500 Laptop GPU (4 GB GDDR6 dedicated) Graphics Integrated Intel® Arc™ Graphics Intel® Arc™ Graphics Display 40.6 cm (16°) diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display 16° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (133.37) Display size (diagonal) 40.6 cm (16°) Display size (diagonal) 16° Audio Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone/jack, HD audio Minimum dimensions (W x D x H) 35.87 x 25.13 x 1.92 cm Minimum dimensions (W x D x H) 4.12 x 9.89 x 0.76 in Starting at 1.79 kg (Weight varies by configuration and components.) Weight Starting at 3.36 lb (Weight varies by configuration and components.) Keyboard HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys Pointing device Clickpad with multi-touch gesture support, taps enabled as default Camera 5 MP IR camera 2 Thunderbott™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDML 2.1 [25.38.57] Ports 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo Package dimensions (W x D x H) 5 52 x 69 x 34 5 mm Wireless Inte® W1-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card Power 100 W USB Type-C® adapter Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes [23] Ecolabels TCO Certified Energy star certified ENERGY STAR® certified Cocam-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% certified ENERGY STAR® certified Energy star certified Energy star certified Energy star certified ENERGY STAR® certified Sustainable impact specifications	Internal Storage	512 GB PCIe® NVMe™ SSD
Graphics (Integrated)  Intel® Arc™ Graphics  Intel®	Graphics	Discrete
Intel® Arc™ Graphics   Intel® Arc™ Graphics   Display	Graphics (discrete)	NVIDIA RTX™ A500 Laptop GPU (4 GB GDDR6 dedicated)
Display 40.6 cm (16") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC Display 16" diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (33,37] Display size (diagonal) 40.6 cm (16") Display size (diagonal) 16" Audio Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio Minimum dimensions (W x D x H) 35.87 x 25.13 x 1.92 cm Minimum dimensions (W x D x H) 14.12 x 9.89 x 0.76 in Weight Starting at 3.96 lb (Weight varies by configuration and components.) Weight Starting at 3.96 lb (Weight varies by configuration and components.) Keyboard HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys Pointing device Clickpad with multi-touch gesture support, taps enabled as default Camera 5 MP IR camera Ports 2 Thunderbolt™ 4 with USB Type-C* 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A SGbps signaling rate; 1 HDMI 2.1(253.6.57) Ports 1 USB Type-A SGbps signaling rate; 1 Headphone/microphone combo Package dimensions (W x D x H) 552 x 69 x 345 mm Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card Power 100 W USB Type-C* adapter Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes (23) Ecolabels TCO Certified Energy star certified ENERGY STAR® certified Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Graphics	Integrated
Display 16° diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC (33.371)  Display size (diagonal) 40.6 cm (16")  Display size (diagonal) 16°  Audio Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio  Minimum dimensions (W x D x H) 35.87 x 25.13 x 1.92 cm  Minimum dimensions (W x D x H) 14.12 x 9.89 x 0.76 in  Weight Starting at 1.79 kg (Weight varies by configuration and components.)  Weight (Weight varies by configuration and components.)  Keyboard HP Premium Quiet Keyboard − spill-resistant, full-size, backlit keyboard with drain and DuraKeys  Pointing device Clickpad with multi-touch gesture support, taps enabled as default  Camera 5 MP IR camera  Ports 21 hunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 [25.36.57]  Ports 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  Package dimensions (W x D x H) 552 x 69 x 345 mm  Wireless 1 HCel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  Power 100 W USB Type-C® adapter  Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes [23]  Ecolabels TCO Certified Energy star certified Ocean-bound plastic in speaker enclosure, 40% post-consumer recycled plastic; External power supply 90% Sustainable impact specifications  Sustainable impact specifications	Graphics (integrated)	Intel® Arc™ Graphics
Display size (diagonal)  16" Audio	Display	40.6 cm (16") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC
Display size (diagonal)  Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio  Minimum dimensions (W x D x H)  35.87 x 25.13 x 1.92 cm  Minimum dimensions (W x D x H)  41.12 x 9.89 x 0.76 in  Weight  Starting at 1.79 kg (Weight varies by configuration and components.)  Weight  Starting at 3.96 lb (Weight varies by configuration and components.)  Keyboard  HP Premium Quiet Keyboard − spill-resistant, full-size, backlit keyboard with drain and DuraKeys  Pointing device  Clickpad with multi-touch gesture support, taps enabled as default  Camera  5 MP IR camera  2 Thunderbott™ 4 with USB Type-C® 406bps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A  56bps signaling rate; 1 HDMI 2.1[25.36.57]  Ports  1 USB Type-A 56bps signaling rate; 1 headphone/microphone combo  Package dimensions (W x D x H)  Wireless  Intel® Wi-Fi 6£ AX211 (2x2) and Bluetooth® 5.3 wireless card  Power  100 W USB Type-C® adapter  Battery type  HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time  Supports battery fast charge: approximately 50% in 30 minutes [23]  Ecolabels  TCO Certified  Energy star certified  ENERGY STAR® certified  ENERGY STAR® certified  Sustainable impact specifications  Ficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable.	Display	16" diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC <sup>[33,37]</sup>
Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio  Minimum dimensions (W x D x H) 35.87 x 25.13 x 1.92 cm  Minimum dimensions (W x D x H) 14.12 x 9.89 y 20.76 in  Weight Starting at 1.79 kg (Weight varies by configuration and components.)  Weight Starting at 3.96 lb (Weight varies by configuration and components.)  Keyboard HP Premium Quiet Keyboard − spill-resistant, full-size, backlit keyboard with drain and DuraKeys  Pointing device Clickpad with multi-touch gesture support, taps enabled as default  Camera 5 MP IR camera  2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1(25.36.57)  Ports 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  Package dimensions (W x D x H) 552 x 69 x 345 mm  Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  Power 100 W USB Type-C® adapter  Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes [23]  Ecolabels TCO Certified  Energy star certified ENERGY STAR® certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable	Display size (diagonal)	40.6 cm (16")
Audio       keys for volume up and down, combo microphone/headphone jack, HD audio         Minimum dimensions (W x D x H)       35.87 x 25.13 x 1.92 cm         Minimum dimensions (W x D x H)       14.12 x 9.89 x 0.76 in         Weight       Starting at 1.79 kg (Weight varies by configuration and components.)         Keyboard       HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys         Pointing device       Clickpad with multi-touch gesture support, taps enabled as default         Camera       5 MP IR camera         2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1(25,36,57)         Ports       1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo         Package dimensions (W x D x H)       552 x 69 x 345 mm         Wireless       Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card         Power       100 W USB Type-C® adapter         Battery type       HP Long Life 3-cell, 56 Wh Li-ion polymer         Battery recharge time       Supports battery fast charge: approximately 50% in 30 minutes [23]         Ecolabels       TCO Certified         Energy star certified       ENERGY STAR® certified       ENERGY STAR® certified         Sustainable impact specifications       efficiency, Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sus	Display size (diagonal)	16"
Minimum dimensions (W x D x H)       14.12 x 9.89 x 0.76 in         Weight       Starting at 1.79 kg (Weight varies by configuration and components.)         Weight       Starting at 3.96 lb (Weight varies by configuration and components.)         Keyboard       HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys         Pointing device       Clickpad with multi-touch gesture support, taps enabled as default         Camera       5 MP IR camera         Ports       2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1[25,36,57]         Ports       1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo         Package dimensions (W x D x H)       552 x 69 x 345 mm         Wireless       Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card         Power       100 W USB Type-C® adapter         Battery type       HP Long Life 3-cell, 56 Wh Li-ion polymer         Battery recharge time       Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels       TCO Certified         Energy star certified       Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable     <	Audio	
Weight       Starting at 1.79 kg (Weight varies by configuration and components.)         Weight       Starting at 3.96 lb (Weight varies by configuration and components.)         Keyboard       HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys         Pointing device       Clickpad with multi-touch gesture support, taps enabled as default         Camera       5 MP IR camera         Ports       2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1[25,36,57]         Ports       1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo         Package dimensions (W x D x H)       552 x 69 x 345 mm         Wireless       Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card         Power       100 W USB Type-C® adapter         Battery type       HP Long Life 3-cell, 56 Wh Li-ion polymer         Battery recharge time       Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels       TC0 Certified         Energy star certified       ENERGY STAR® certified         Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Minimum dimensions (W x D x H)	35.87 x 25.13 x 1.92 cm
Weight       (Weight varies by configuration and components.)         Keyboard       HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys         Pointing device       Clickpad with multi-touch gesture support, taps enabled as default         Camera       5 MP IR camera         Ports       2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1[25,36,57]         Ports       1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo         Package dimensions (W x D x H)       552 x 69 x 345 mm         Wireless       Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card         Power       100 W USB Type-C® adapter         Battery type       HP Long Life 3-cell, 56 Wh Li-ion polymer         Battery recharge time       Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels       TCO Certified         Energy star certified       ENERGY STAR® certified         Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable	Minimum dimensions (W x D x H)	14.12 x 9.89 x 0.76 in
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Pointing device       Clickpad with multi-touch gesture support, taps enabled as default         Camera       5 MP IR camera         Ports       2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 [25,36,57]         Ports       1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo         Package dimensions (W x D x H)       552 x 69 x 345 mm         Wireless       Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card         Power       100 W USB Type-C® adapter         Battery type       HP Long Life 3-cell, 56 Wh Li-ion polymer         Battery recharge time       Supports battery fast charge: approximately 50% in 30 minutes [23]         Ecolabels       TCO Certified         Energy star certified       ENERGY STAR® certified         Sustainable impact specifications       Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable	Weight	
Camera       5 MP IR camera         Ports       2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1[25,36,57]         Ports       1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo         Package dimensions (W x D x H)       552 x 69 x 345 mm         Wireless       Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card         Power       100 W USB Type-C® adapter         Battery type       HP Long Life 3-cell, 56 Wh Li-ion polymer         Battery recharge time       Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels       TCO Certified         Energy star certified       ENERGY STAR® certified         Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Keyboard	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys
Ports  2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 [25,36,57]  Ports  1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  Package dimensions (W x D x H)  552 x 69 x 345 mm  Wireless  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  Power  100 W USB Type-C® adapter  Battery type  HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time  Supports battery fast charge: approximately 50% in 30 minutes [23]  Ecolabels  TCO Certified  Energy star certified  Sustainable impact specifications  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable	Pointing device	Clickpad with multi-touch gesture support, taps enabled as default
Ports  1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 [25,36,57]  Ports  1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  Package dimensions (W x D x H)  552 x 69 x 345 mm  Wireless  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  Power  100 W USB Type-C® adapter  Battery type  HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time  Supports battery fast charge: approximately 50% in 30 minutes [23]  Ecolabels  TCO Certified  Energy star certified  Sustainable impact specifications  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable outside box and corrugated cushions are 100% sustainably sourced and recyclable	Camera	5 MP IR camera
Package dimensions (W x D x H) 552 x 69 x 345 mm  Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  Power 100 W USB Type-C® adapter  Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes [23]  Ecolabels TCO Certified  Energy star certified ENERGY STAR® certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable		
Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  Power 100 W USB Type-C® adapter  Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels TCO Certified  Energy star certified ENERGY STAR® certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports	
Power 100 W USB Type-C® adapter  Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels TCO Certified  Energy star certified ENERGY STAR® certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	-	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup>
Battery type HP Long Life 3-cell, 56 Wh Li-ion polymer  Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels TCO Certified  Energy star certified ENERGY STAR® certified  Sustainable impact specifications Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo
Battery recharge time  Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> Ecolabels  TCO Certified  Energy star certified  ENERGY STAR® certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports Package dimensions (W x D x H)	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm
Ecolabels TCO Certified Energy star certified ENERGY STAR® certified Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports Package dimensions (W x D x H) Wireless	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card
Energy star certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports Package dimensions (W x D x H) Wireless Power	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  100 W USB Type-C® adapter
Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90%  Sustainable impact specifications  efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports Package dimensions (W x D x H) Wireless Power Battery type	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  100 W USB Type-C® adapter  HP Long Life 3-cell, 56 Wh Li-ion polymer
<b>Sustainable impact specifications</b> efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	Ports Package dimensions (W x D x H) Wireless Power Battery type Battery recharge time	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  100 W USB Type-C® adapter  HP Long Life 3-cell, 56 Wh Li-ion polymer  Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup>
<b>UPC number</b> (ABM) 198122691104; (AC8) 198122691098; (AKH) 198122691081	Ports Package dimensions (W x D x H) Wireless Power Battery type Battery recharge time Ecolabels	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  100 W USB Type-C® adapter  HP Long Life 3-cell, 56 Wh Li-ion polymer  Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> TCO Certified
	Ports Package dimensions (W x D x H) Wireless Power Battery type Battery recharge time Ecolabels Energy star certified	5Gbps signaling rate; 1 HDMI 2.1 <sup>[25,36,57]</sup> 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo  552 x 69 x 345 mm  Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  100 W USB Type-C® adapter  HP Long Life 3-cell, 56 Wh Li-ion polymer  Supports battery fast charge: approximately 50% in 30 minutes <sup>[23]</sup> TCO Certified  ENERGY STAR® certified  Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably

## **Top Recommended Displays, Accessories and Services**

Series 7 Pro	
HP Series 7 Pro 34 inch WQHD Conferencing Monitor - 734pm	8K157AA
HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Monitor - 732pk	8Y2K9AA
HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk	8J9G2AA
Speakerphones	
Poly Sync 20+ USB-C Speakerphone	772D0AA
Poly Sync 20 USB-C Speakerphone	7F0J7AA
Poly Sync 10 USB-A USB-C Speakerphone	772C3AA
Wireless Headset	
Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand	8G7T7AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter	9T9J3AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand	77Z31AA
Backpacks	
HP Renew Business 17.3-inch Laptop Backpack	3E2U5AA
Wireless Keyboards	
HP 455 Programmable Wireless Keyboard	4R177AA
HP 475 Dual-Mode Wireless Keyboard	7N7B9AA
HP 975 Dual-Mode Wireless Keyboard	3Z726AA
Wireless Mice	
HP 695 Rechargeable Wireless Mouse	8F1Y4AA
HP 935 Creator Wireless Mouse	1D0K8AA
HP 925 Ergonomic Vertical Mouse	6H1A5AA

#### **Messaging Footnotes**

- [1] Multicore 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. Optional, configurable feature that must be configured at purchase.
- [2] Optional feature that must be configured at purchase.
- [3] Lowest weight. Weight will vary by configuration.
- [4] Multicore 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. Optional feature that must be configured at purchase
- [8] Optional, configurable feature that must be configured at purchase.
- [9] Wi-Fi 6E is an optional feature that must be configured at purchase. 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 Wi-Fi 6E is supported.
- [10] Al Noise Suppression is delivered automatically through Windows update or can be downloaded from https://support.hp.com/us-en/drivers. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The Al Noise Suppression setting can be configured through the Application HP Audio Control.
- [11] For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB (for Windows 10) of system disk is reserved for system recovery software.
- [12] Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

#### **Technical Specifications Footnotes**

- [1] 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.
- [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.
- [23] Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
- [25] SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
- [33] HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- [36] HDMI cable sold separately.
- [37] Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- [57] Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams.

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