ProductSheet

HP ZBook Firefly 14 inch G9 Mobile Workstation PC Wolf Pro SecurityEdition (6Q3X1UT)



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, Alenhancing webcam and audio, and a stunning display—everything you need to collaborate and manage projects anywhere.



HP recommends Windows 11 Pro for busi Hosgrade to pro-level performance

Say goodbye to lags and crashes with faster responsiveness on projects. With Intel® processors[1] and integrated or discrete graphics you can open large files and run pro apps simultaneously for speedy multitasking and productivity.

Work all day. Anywhere.

Starting at 3.25 lbs,[4] our most mobile ZBook is made to move. With up to 13-hours of battery life,[5] this sleek yet durable device is small enough to fit in your bag so you can stay productive anywhere. This is high performance workstation power on the go.

Connect. Communicate. Collaborate.

Collaborate effectively with ZBook Firefly. The AI enhanced auto-framing 5MP camera[6] offers improved image quality even in low light, and discrete audio amps block background noise so you can connect from any location with a more personal experience.

Featuring

Intel® Core™ i5 processor

Experience powerful performance and seamless computing for your everyday tasks and higher performance needs with the Intel® Core $^{\text{TM}}$ i5 processor. [3]

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. [7]

HP Fast Charge

Ultra-fast recharge takes you from zero to 50% charge in just 30 minutes. [8]

Spill-resistant Keyboard

Accidents happen - which is why we designed our keyboard with a drain hole, so minor spills flow out the bottom for easy cleanup.

Industry-leading security features

Advanced security features come standard. System safeguards like HP Sure Start – the industry's first self-healing BIOS – mean your device is locked down tight, so your data and identity are too.

 $\label{lem:productSheet | HP ZBook Firefly 14 inch G9 Mobile Workstation PC Wolf ProSecurityEdition (6Q3X1UT) \\$

Specifications

Processor family 12th Generation Intel® Core™ is processor	Operating system	Windows 11 Pro ^[1]
Processor Intel® Core™ 5-1250P (up to 4.4 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 12 cores, 16 threads) Processor technology	Operating system Processor family	
threads) Processor technology Intel® Cire™ is with vPro™ Technology Chipset Intel® Integrated Soc Memory 16 GB DDRS-4800 MHz RAM (2 x 8 GB) Memory Slots 25 GB PCle® NVMe™ TLC SSD Optical drive Not included Graphics Internal Storage Optical drive Not included Graphics Integrated) Intel® Integrated Intel® Inte	Processor family	,
Chipset Intel® Integrated SoC Memory 16 GB DDRS-4800 MHz RAM (2 x 8 GB) Memory Slots 2 SODIMI, supports dual chame! Internal Storage 256 GB PCIe® NVMe™ TLC SSD Optical drive Not included Graphics Integrated Jisplay 35.6 cm (14°) diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC Display size (diagonal) 14° diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSCI ^{11,33,36,37}] Display size (diagonal) 35.6 cm (14°) Jagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSCI ^{11,33,36,37}] Display size (diagonal) 14° Audio Audio Mullion by Bang & Outsen, dual stereo speakers, IPE World Facing Microphone dual array digital microphones. Functions keys for volume up and down, combo microphone/headphone jack, IPD audio Minimum dimensions (W x D) 31.56 x 22.43 x 1.99 cm X H) Starting at 3.25 b guardian and components.) Weight Starting at 3.25 b guardian and components.) Keyboard HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and Durakeys Camera 5MP DI IR camera 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging), 1 HDMI 2.0b, 2 Thunderboil™ 4 with USB4™	Processor	and the state of t
Memory 16 GB DRS-4800 MHz RAM (2 x 8 GB) Memory Slots 2 SODIMM: supports dual channel Internal Storage 25 GB PCE® NVM®™ TLC SSD Optical drive Not included Graphics Integrated Craphics (integrated) Integrated Display 35.6 cm (147) diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC [1.33,36,37] Display size (diagonal) 35.6 cm (147) Display size (diagonal) 14" Audio Audio by Sang & Olufsen, dual stereo speakers, IPP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone dual array digital microphones/full functions functions keys for volume up and down, combo microphone dual array digital functions	Processor technology	Intel® Core™ i5 with vPro™ Technology
Memory Slots 2 SODIMM; supports dual channel	Chipset	Intel® Integrated SoC
Internal Storage	Memory	16 GB DDR5-4800 MHz RAM (2 x 8 GB)
Optical drive Fraphics Integrated Graphics (integrated) Display 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC Display 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC Display 14" diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC Display size (diagonal) 3.5 c cm (14") Display size (diagonal) 14" Audio Audio by Bang & Olufsen, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio 31.56 x 22.43 x 1.99 cm Minimum dimensions (W x D x H) 31.56 x 22.43 x 1.99 cm Minimum dimensions (W x D x H) 31.56 x 22.43 x 1.99 cm Minimum dimensions (W x D x H) 31.56 x 22.43 x 1.99 cm Meight Starting at 1.47 kg (Weight varies by configuration and components.) Starting at 3.2.6 lb (Weight varies by configuration and components.) Weight Wisplay (Meight varies by configuration and components.) Starting at 3.2.6 lb (Weight varies by configuration and components.) Type-C® 4064Dps signaling rate (USB Power Delivery, DisplayPort™ 14, HP Sieep and Charge Ports 1 SuperSpeed USB Type-A 5Gbps signaling rate (Charging); 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 4064Dps signaling rate (USB Power Delivery, DisplayPort™ 14, HP Sieep and Charge Ports 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless 2 headph 3 headph 3 headpare Battery type 4 HP Long Life 3-cell, 51 Wh Li-ion polymer Battery techarge time 4 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Clean-Bound plastic in speaker encl	Memory Slots	2 SODIMM; supports dual channel
Graphics Integrated Intel® Iris® X* Graphics Intel® Iris®	Internal Storage	256 GB PCle® NVMe™ TLC SSD
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Display 14" diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC ^[11,33,36,37] Display size (diagonal) 35.6 cm (14") Display size (diagonal) 14" Audio by Bang & Olufsen, 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) Minimum dimensions (W x D x H) Weight Starting at 1.47 kg (Weight varies by configuration and components.) Weight Starting at 3.26 lb (Weight varies by configuration and components.) Weight HP Premium Quiet Keyboard — spill-resistant, full-size, backlit keyboard with drain and DuraKeys Camera 5MP HD IR camera Forts 1 Superspeed USB Type-A 5Gbps signaling rate (charging); 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C9 4Gdbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) Ports 1 Superspeed USB Type-A 5Gbps signaling rate (SB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) Ports 1 headphone/microphone combo; 1 Superspeed USB Type-A 5Gbps signaling rate Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate) Power 65 W USB Type-C™ adapter Battery type HP Long Life 3-cell, 51 Wh Li-ion polymer Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes Management features Pocean-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; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Outside box and	Graphics (integrated)	Intel® Iris® Xe Graphics
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Weight Starting at 1.47 kg (Weight varies by configuration and components.) Weight Starting at 3.26 lb (Weight varies by configuration and components.) Keyboard HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys Camera 5MP HD IR camera Ports 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) Ports 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate) Power 65 W USB Type-C™ adapter Battery type HP Long Life 3-cell, 51 Wh Li-ion polymer Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes Management features HP Power Manager ^[15] Sustainable impact specifications Supering Manager (15) Security management Power Manager (15) Security management HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Admin; HP Sure Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TM Configuration Utility; HP Sure Run Gen4; HP Clent Agham, HP Sure Recover Gen4 with Embedded Reimagin	Minimum dimensions (W x D x H)	12.42 x 8.8 x 0.78 in
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Ports 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate) Power 65 W USB Type-C™ adapter Battery type HP Long Life 3-cell, 51 Wh Li-ion polymer Battery recharge time Management features HP Power Manager[15] 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 HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Look Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter[24,25,29,31,32,33,34,38,40,43,44,45] Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) ^[18,19,20,21,22,23,26,55]	Keyboard	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys
Ports 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate) Power 65 W USB Type-C™ adapter Battery type HP Long Life 3-cell, 51 Wh Li-ion polymer Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes HP Power Manager[15] 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 HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter [24,25,29,31,32,33,34,38,40,42,43,44,45] Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP Zecentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP Chardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) [18,19,20,21,22,23,26,55]	Camera	5MP HD IR camera
Wireless Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate) Power 65 W USB Type-C™ adapter Battery type HP Long Life 3-cell, 51 Wh Li-ion polymer Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes Management features HP Power Manager ^[15] 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 HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security, Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter ^[24,25,29,31,32,33,34,38,40,42,43,44,45] Software included Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) ^[18,19,20,21,22,23,26,55] <th>Ports</th> <th></th>	Ports	
Power 65 W USB Type-C™ adapter Battery type HP Long Life 3-cell, 51 Wh Li-ion polymer Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes Management features HP Power Manager[¹5] 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 Becurity management HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security, Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Renover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter[²4,25,29,31,32,33,34,38,40,42,43,44,45] Software included Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) \$\frac{1}{2}, \frac{1}{2}, \frac{2}{2}, 2	Ports	1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate
Battery type Battery type Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes HP Power Manager ^[15] 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; Outside box and corrugated cushions are 100% sustainably sourced and recyclable HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Start Gen6; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security, Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter ^[24,25,29,31,32,33,34,38,40,42,43,44,45] Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) Il8,19,20,21,22,23,26,55]	Wireless	Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate)
Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes Management features HP Power Manager ^[15] 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 HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter ^[24,25,29,31,32,33,34,38,40,42,43,44,45] Software included Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) ^[18,19,20,21,22,23,26,55]	Power	65 W USB Type-C™ adapter
Management features HP Power Manager ^[15] 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 Security management HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter ^[24,25,29,31,32,33,34,38,40,42,43,44,45] Software included Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) ^[18,19,20,21,22,23,26,55]	Battery type	HP Long Life 3-cell, 51 Wh Li-ion polymer
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 HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter [24,25,29,31,32,33,34,38,40,42,43,44,45] Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) [18,19,20,21,22,23,26,55]	Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Sustainable impact specifications 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 HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter[24,25,29,31,32,33,34,38,40,42,43,44,45] Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) [18,19,20,21,22,23,26,55]	Management features	HP Power Manager ^[15]
Security management HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter [24,25,29,31,32,33,34,38,40,42,43,44,45] Bing search for IE11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile™ App (optional) [18,19,20,21,22,23,26,55]	Sustainable impact specifications	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
Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP Touchpoint Customizer; HP WorkWell; Tile TM App (optional) ^[18,19,20,21,22,23,26,55]	Security management	HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; HP Proactive Security; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter ^[24,25,29,31,32,33,34,38,40,42,43,44,45]
	Software included	Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop; HP
	UPC number	(ABA) 196786395246; (ABL) 196786395291

 $\label{lem:productSheet | HP ZBook Firefly 14 inch G9 Mobile Workstation PC Wolf ProSecurityEdition (6Q3X1UT) \\$

Top Recommended Displays, Accessories and Services

Z Displays	
HP Z27q G3 QHD Display	1C4Z7AA 3G828AA
HP Z24f G3 FHD Display	
HP Z24n G3 WUXGA Display	1C4Z5AA
Docking Stations	
HP Thunderbolt Dock G2 with Combo Cable	3TR87AA
Keyboard and Mouse Kits	
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
Mice	
HP 635 Multi-Device Wireless Mouse	1D0K2AA

HP recommends Windows 11 Pro for business

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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.
- [3] 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.
- [4] Lowest weight. Weight will vary by configuration.
- [5] Battery life will vary depending on the 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 MobileMark18 battery benchmark https://bapco.com/products/mobilemark-2018/ for additional details
- [6] Optional feature that must be configured at purchase.
- [7] 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.
- [8] 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.
- [11] HP DreamColor Panel available in the Q2 2021 timeframe.
- [15] Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.
- [18] HP Support Assistant Requires Windows and Internet Access.
- [19] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual licenses or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7 operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.
- [20] Web-only Support
- [21] TileTM requires Windows 10. Some features require optional subscription to Tile Premium. Ring feature not available on HP Elite G8 Laptops. Tile application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Store and Google Play. Requires iOS 11 and greater or Android 6.0 and greater see https://support.thetileapp.com/hc/en-us/articles/200424778 for more information. HP Tile will function as long as the PC has battery power.
- [22] Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast.
- [23] HP Performance Advisor Software. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html
- [24] HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- [25] HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- [26] HP Connection Optimizer requires Windows 10.
- [29] HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A SureClick for complete details.
- [31] HP Sure Run Gen4 is available on select HP PCs and requires Windows 10 and higher
- [32] Secured-core PC requires an Intel® vPro® or AMD Ryzen™ Pro processor. Requires 8 GB or more system memory. Secured-core PC functionality can be enabled from the factory.
- [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.
- [34] HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- [36] Sold separately or as an optional feature.
- [37] Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- [20] LD Managophility Intogration Kit can be developeded from http://www.bn.com/ge/clientmanagoment
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