

Sales guide

Why a mobile workstation?



When it comes to powerful computing on the go, mobile workstations are in a class of their own, providing a spectrum of performance, reliability and expandability that extends well beyond the capabilities of standard mobile computers.

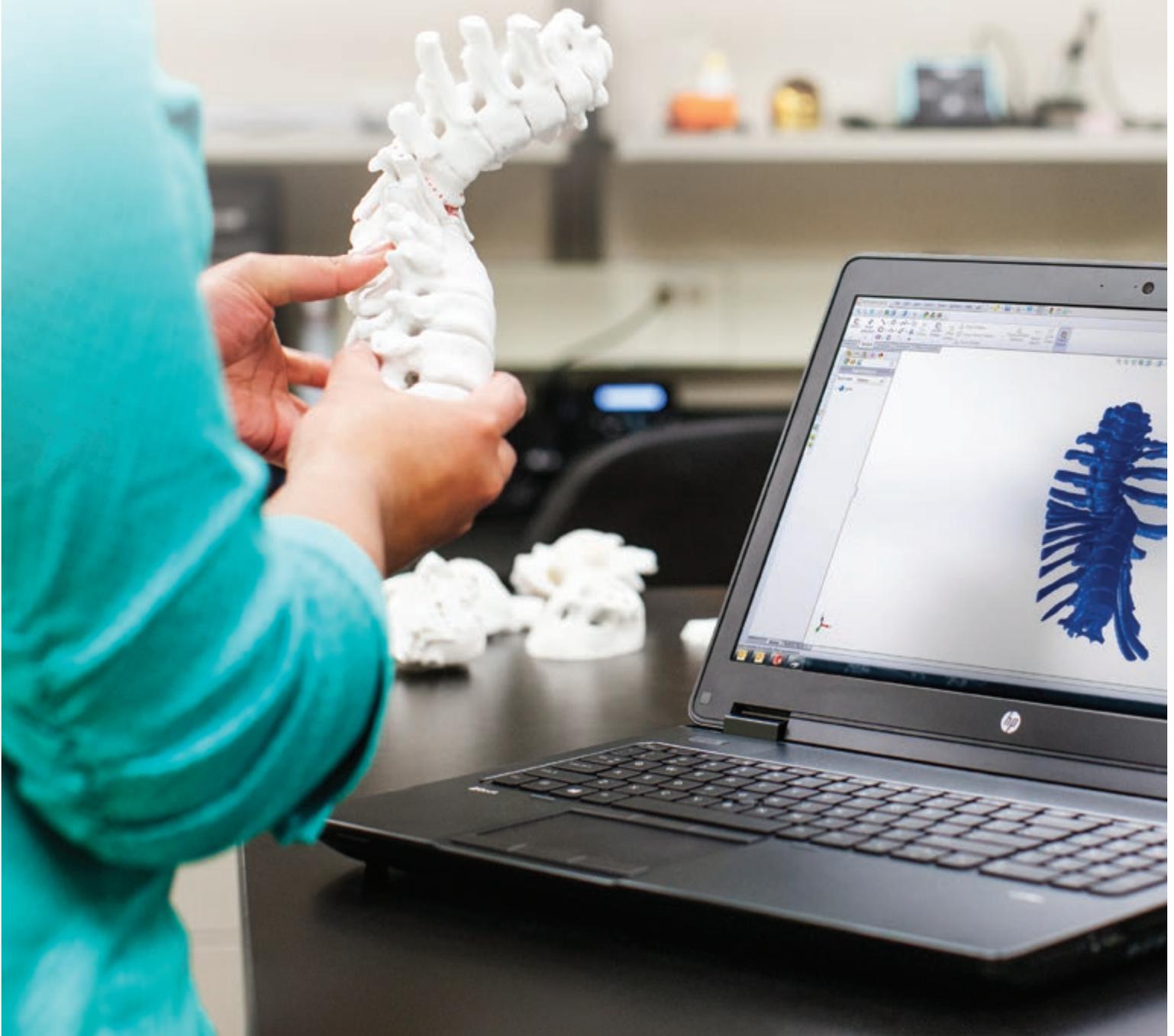
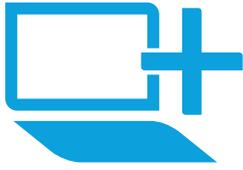


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While our HP EliteBook 800 series Notebook can provide you with excellent value, the ZBook Mobile Workstations deliver superb performance, uncompromised reliability and wide-ranging scalability as well as a range of screen sizes to fit various needs.

HP EliteBook 800 series Notebook

Form factors

- 14.0-inch diagonal
- 15.6-inch diagonal

Expandability

- Up to 16 GB memory³
- Up to 2 HDD storage⁴

Reliability

- Business-rugged, MIL-STD 810G testing¹
- HP DuraCase
- HP DuraKeys
- Precision stamped full magnesium alloy chassis
- Chemically strengthened glass touchpad
- Cast titanium alloy display latch
- Support for RAID (0, 1)¹²

Graphics

UMA, or AMD RADEON graphics

Warranty

1/1/0 or 3/3/0 support; on site service is extra

HP ZBook Mobile Workstations also deliver*

Form factors

- 14.0-inch diagonal
- 15.6-inch diagonal
- 17.0-inch diagonal

Expandability

- Up to 32 GB memory³
- Up to 4 HDD storage⁴ bays
- Thunderbolt™¹⁷ 2 port for faster data transfers
- Intel® quad-core processors^{2,6}
- Support for FHD
- Multi-finger touch option
- DreamColor^{13,14} panel option

Reliability

All the reliability features in the HP EliteBook 800 series Notebook plus:

- Rigorous ISV testing and certifications
- Support for RAID (0, 1, 5)¹²
- Productivity-boosting software tools such as HP Performance Advisor¹⁵ and HP Remote Graphics Software¹⁶ preloaded

Graphics

ISV-certified, workstation-caliber AMD FirePro™ or NVIDIA Quadro professional graphics

Warranty

3/3/3 or 3/3/0 support**

* Many workstation technologies are selectable options. Specifications can vary by workstation platform.

** Varies by region



HP ZBook Mobile
Workstations are designed for the demands of users who work with professional and technical applications, large and complex datasets or intricate 3D models.

Take performance to new extremes

HP ZBooks are designed and engineered to optimize the way the processor, memory, graphics, operating systems and application software components work together in all configurations. With the range of components to meet a variety of needs, you are able to accomplish more with each minute of your time.

Intel® Processor Technology

A wide choice of high-performance Intel® processors are validated and tested by Intel and HP for demanding workstation applications. The ZBook series all provide the latest Intel® Core™ i5 and i7 processors². The ZBook 15 and 17 provide the latest Intel® Core™ i5 and i7 processors² with dual and quad core² computing.

Storage solutions to meet the need

High-performance storage solutions are required for demanding workflows. HP ZBook Mobile Workstations offer high reliability and high performance families with storage capacities to meet your needs. SATA 7200 rpm HDDs are available up to 750 GB, and 6Gb/s SATA SSDs are available up to 512 GB. Additional features include self-encrypting drives for added security, flash cache¹⁹ SSD for low cost tiered storage, and an upgrade bay⁵ for additional drives to use for more capacity and RAID options.

Leading-edge professional graphics

100,000 hours of testing per year over a wide range of graphics cards, simulating real-world customer workloads, as well as stress tests that far exceed typical usage, translate into higher quality drivers that customers trust. Strong relationships with NVIDIA and AMD help us quickly resolve any issues. That's how we give you HP Workstations graphics solutions that feature optimized thermal and power design, wide-ranging application certification and a three-year limited warranty.

HP recommends Windows.

HP Performance Advisor¹⁵

Get the most out of your mobile workstation from day one—spend more time working, processing and designing and less time troubleshooting IT. Further enhancing application performance on your mobile workstation, this exclusive HP software wizard helps you configure, customize and optimize your system for each new application and driver you install. To learn more, see hp.com/go/performanceadvisor.

HP Remote Graphics Software

Feel the freedom of working remotely while still accessing the high-performance 3D or media-rich applications you count on. With HP Remote Graphics Software¹⁶ (RGS) standard on every HP ZBook, you can take your graphics-intensive workstation application wherever you go. From the remote worker to the road warrior, get complete access to the power of your workstation from any computer in any location. Collaborate with colleagues around the office or around the world. And with advanced touch recognition features on HP RGS 7 you can easily do real work with workstation-class applications on the ZBook 14 or a tablet. To learn more, see hp.com/go/rgs.

Thunderbolt™ 2

Thunderbolt™ 2¹⁷ technology offers high speed ports for client applications. The HP ZBook Mobile Workstations offer 20 Gbps per channel, bidirectional, dual-protocol, and PC interconnect. The Thunderbolt 2 connector is backward compatible to a mini-DisplayPort (mDP) connector. The HP ZBooks are able to daisy chain up to 6 Thunderbolt devices and 1 native DisplayPort Display.

DreamColor

Take color accuracy to the next level and achieve maximum impact with the HP DreamColor Display. Designed by color professionals and digital content creators, HP DreamColor is the power tool they use to produce trusted results.



Ultimately, our intense focus on reliability gives you greater peace of mind when running professional applications on an HP ZBook. You know that you have a system that is designed, tested, and proven for the work you do.

Mission-critical reliability

HP ZBook Mobile Workstations are designed to comprehensively address reliability in all its forms. They are made for those who need their machine to run 24 hours a day, 7 days a week, 52 weeks a year. The HP ZBooks offer HP ProtectTools⁸ as a security suite to protect from internal and external threats. For professionals who rely on the highest application performance and who need to ensure data integrity, HP ZBooks meet those high reliability expectations through both design and testing¹.

A business-rugged design

HP ZBooks are designed to stand up to the rigors of users who are constantly on the go. The business-rugged industrial design meets military standards testing for drop, vibration, dust, temperature, and altitude.¹

Independent Software Vendor (ISV) certification

HP supports an extensive list of application partners and works closely with many software vendors to ensure that these applications work smoothly and flawlessly on HP ZBooks in all possible configurations. HP also provides a test suite to graphics vendors, to help increase the reliability and stability of industry-standard graphics products. [Learn more about how our partnerships power you.](#)

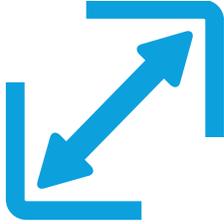
HP recommends Windows.

Tested beyond industry standards

Our customers put their workstations through the toughest trials, so we do too—before they can. HP engineers conduct 115,000 hours of rigorous testing to ensure world-class reliability. In brutal three-axis testing—where frequency, voltage, and temperature are varied—our engineers push the limits of processors, memory, and other system parts. This three-axis testing uses proprietary tools and techniques, and stresses components in ways that help detect potential design or component weaknesses that would otherwise go unnoticed. In some cases, rigorous qualification enables us to find issues that have been previously overlooked by our component vendors. Our strong relationships and influence with these partners enable us to obtain and integrate improved components into our systems, many of which are unique to HP Workstations. HP Workstation engineers are fanatical about quality because we know our users are too.

Engineered BIOS

HP BIOS helps hardware compatibility and increases workstation reliability by reducing power consumption through preset sleep states, adjustable fan speeds that maximize operating efficiency, and power management features.



Expandable by design

HP ZBook Mobile Workstations offer a range of configurable features so that you can quickly and easily grow your HP ZBook Mobile Workstation at your own pace. More memory and faster I/O channels are critical for workstation applications and the large files they generate.

HP ZBooks are designed to provide more memory³, storage⁴, and I/O expandability by supporting the latest technologies like Thunderbolt™¹⁷, USB 3.0 and ExpressCard—in addition to the latest hard drives, solid state drives, optical drives, RAID configurations, and flexible storage bays.

More memory, less waiting

The high-performance models of HP ZBook Mobile Workstations employ a scalable memory subsystem that provides more bandwidth, reduces latency, and helps reduce power consumption, so mobile workstations can be configured with more memory without substantially increasing power and cooling requirements.

Memory, storage and graphics that grow with your needs

	Available operating systems ^{10, 11, 18}	Maximum memory ³	Maximum storage ⁴	Maximum graphics
ZBook 14	Windows 8.1 Professional Windows 7 Professional	16 GB	1 TB	AMD FirePro™ M4100
ZBook 15	Windows 8 Professional Windows 7 Professional	32 GB	1.87 TB	NVIDIA Quadro K2100M
ZBook 17	Windows 8 Professional Windows 7 Professional	32 GB	2.87 TB	NVIDIA Quadro K5100M

Why an HP ZBook?

Designed for workstation-class professionals that demand mobility, the new HP ZBook Mobile Workstations introduce improvements in performance, innovation and reliability. Choose between a surprisingly mobile, yet powerful 14-inch diagonal chassis, a versatile 15.6-inch diagonal chassis, or the powerful and expandable 17.3-inch diagonal chassis.

The new thin and light HP ZBook 14

HP's most travel-friendly mobile workstation has become even slimmer, and is the world's first workstation Ultrabook™²⁰. The HP ZBook 14 is ISV certified and includes workstation-caliber graphics and powerful processing. Touting a business-rugged design, the HP ZBook 14 offers a 14-inch diagonal display up to Full HD⁷ with optional, intuitive 10-point multi-touch screen^{11, 14} and multi-monitor support. Save time by quickly accessing your favorite files with Intel® Smart Response Technology (SRT)⁹. Share powerful sound directly from your mobile workstation without additional speakers, thanks to DTS Studio Sound™.

HP ZBook 15—redesigned for productivity on the go

Unleash your creativity and break free from your desktop with a sleek HP ZBook 15 Mobile Workstation that keeps you productive in the field. Count on dynamic, true workstation performance with the latest 4th generation Intel® Core™ i5 or i7 processors². With Thunderbolt™¹⁷, professional NVIDIA Quadro 3D Graphics, and optional Quad Core CPUs² the new HP ZBook 15 takes power to a new standard.

HP's most powerful mobile workstation—HP ZBook 17

Proudly display your work on a large, 17.3-inch diagonal screen housed in the durable chassis of the new HP ZBook 17. The innovative design projects a professional image and remains easy enough to carry where work takes you. Take advantage of HP's most powerful processing and graphics, consistent color throughout your workflow, simple scalability, and the blazing-fast connectivity you need to perform and collaborate at the speed of creativity.



1. Testing was not intended to demonstrate fitness for Department of Defense contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions.
2. 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. 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel® 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
3. Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.
4. For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) of system and up to 30 GB (for Windows 8) disk is reserved for system recovery software.
5. Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright protected materials. Intended for creation and storage of your original material and other lawful use. Double Layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. As Blu-ray is a new format containing new technologies, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this workstation.
6. Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software, and overall system configuration. See intel.com/technology/turboboost for more information.
7. HD content required to view HD images.
8. Requires Microsoft Windows.
9. Requires a compatible Intel® Core processor, enabled chipset, Intel® Rapid Storage technology software and non-SED HDD + optional 2.5" SSD flash cache module. Intel® Smart Response Technology is only available on select HP systems. Read performance levels assume that the data to be read is in the cache. Depending on system configuration, results may vary.
10. Not all features are available in all editions of Windows 7. Systems may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See microsoft.com/windows/windows-7/ for details.
11. Not all features are available in all editions of Windows 8. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8 functionality. See microsoft.com.
12. SATA hardware RAID is not supported on Linux systems. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf for RAID capabilities with Linux.
13. All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
14. Sold separately or as an optional feature.
15. HP Performance Advisor requires Windows and an internet connection.
16. Remote Graphics Software requires Windows and internet access.
17. Thunderbolt 2 is standard on HP ZBook 15 and 17 Mobile Workstations. Thunderbolt is new technology. Thunderbolt cable and Thunderbolt device (sold separately) must be compatible with Windows. To determine whether your device is Thunderbolt Certified for Windows, see thunderbolttechnology.net/products.
18. This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 8 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
19. Not available with SSD or Self-Encrypting Drive or Wireless WAN Broadband module.
20. Not all configurations qualify as an Ultrabook™.

For more information visit
hp.com/zworkstations

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