

>> HP EliteBook and Intel® vPro™ Technology: Rx for Healthcare Mobility

HP, Intel team up to offer durable, reliable and efficient hardware and software for the mobile world. By Sandra Gittlen

WITH THE SUDDEN INFLUX of new, productivity-enhancing applications, even the most tethered of industries are anxious to go mobile or enhance their current mobile technology. Nowhere is this more evident than in the healthcare industry, which is set to make great strides, thanks to advances such as electronic medical records (EMR) and remote diagnosis applications. However, for IT organizations to fully embrace mobility, they must be assured that the hardware and software supporting these applications are durable, reliable, energy efficient and secure.

HP's EliteBook business notebook portfolio featuring HP Professional Innovations and Intel® vPro™ technology is exactly what the doctor ordered for healthcare and other mobility-seeking environments, according to industry experts. These notebooks have the flexibility, durability, wireless infrastructure and hardware-assisted security and manageability to give IT managers the confidence that users will be able to thrive in this new environment.¹

"Few things are designed from the inside out to be amazing," says Rob Enderle, principal of The Enderle Group, a consulting firm in San Jose, Calif. "If anyone would have told me a year ago that I would find business-class and professional mobile workstations to be the exceptions, I would have laughed in their face. However, the HP EliteBook Mobile Workstations and the HP business-class workstations are amazing products."

In healthcare, clinicians, physicians, nurses and patients all need immediate access to information, such as EMR, from the point of care. They also need the ability to engage in clear, but secure, communications among themselves. Therefore, they require lightweight, high-performance notebooks with extended battery life and built-in security. With these features, they can provide care from patient bedsides, upload lab results, write prescriptions and orders, access schedules, and review important digital images such as X-rays or MRIs without worrying about recharging, privacy breaches and other common obstacles.¹

Durability

Hospitals, doctors' offices and other healthcare locations can be hard on mobile devices. HP EliteBooks, with some weighing in at less than 5 pounds, have a DuraCase magnesium design that is business-rugged. Some Elitebooks are equipped with a 4-point lockdown mechanism that allows the notebook to stay aligned even if it sustains a fall.² In addition, the machines are protected from common keyboard mishaps thanks to a thin layer of Mylar film that minimizes the risk to sensitive, critical components, and HP DuraKeys, which makes the keys 50 times more resistant to wear and tear.

A final feature of the HP EliteBook that protects it from damage is the HP 3D DriveGuard, which physically secures the drive if the machine is dropped. HP 3D DriveGuard is an accelerometer on

the drive that parks the heads of the hard drive to protect data during impact.

More Power

In addition to durability, users in healthcare environments also need assurance that they can get through a shift, even while using resource-intensive applications, without having to stop and recharge their notebooks.



HP EliteBook notebooks are energy efficient and have extended battery life. They meet the U.S. government's Energy Star program requirements as well as the Electronic Product Environmental Assessment Tool (EPEAT). Extremely durable solid state drives from Intel, which generate less heat and noise and consume 50% less power than standard hard drives, and default power settings help extend runtime. By combining the solid state drives, energy-efficient Intel® Core™2 Duo processors,³ power management, a state-of-the-art LED display and HP's Ultra Capacity Battery, users can achieve up to 24 hours on a properly

configured 6930p with Ultra Capacity Battery.⁴

Studies have shown that by upgrading from 4-year-old desktop PCs to notebooks with integrated Intel vPro technology, healthcare organizations can reduce energy consumption significantly.

Quick and Secure

While pulling up records from a patient's bedside seems like nirvana compared with older days, it could quickly become frustrating without enhanced speed and security.

HP Professional Innovations also helps ensure that users function in a secure environment without the constant need for IT intervention. For instance, with Spare Key, if users lose or forget their password, they can still access data if they can answer several predetermined questions. This avoids disruption in patient care as users wait for IT to reset their

passwords. They also can use Credential Manager for HP ProtectTools to facilitate safe, single sign-on and guard against unauthorized notebook access.

To assure compliance in safeguarding sensitive information, IT can erase a notebook that is ready to be decommissioned or reassigned using HP Disk Sanitizer, and users can manage their own file deletion using File Sanitizer.⁵ Also, with Intel vPro technology,⁶ each machine has added protection against viruses and attacks with programmable defense filters.^{7,8} IT organizations can rely on Intel vPro technology to help ensure enhanced security with faster patch saturation and perform faster, more accurate asset inventories.

With Intel vPro technology, remote configuration, diagnosis, isolation and repair of infected PCs are easier as well, even if the PCs are outside of the corporate firewalls. This reduces the need for IT

to travel to physicians' offices or other off-site locations within the healthcare organization. Finally, to assist with patient privacy, the HP EliteBook has display filters that prevent others from seeing their screens from an angle.

Even though they are easily one of the most demanding environments, healthcare organizations can achieve highly productive mobility with HP EliteBook notebooks. With the superior benefits of HP Professional Innovations and Intel vPro technology built in, the HP EliteBook is an outstanding choice for flexibility, durability, reliability, wireless connectivity, security and manageability.

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3. 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. See www.intel.com/info/em64t for more information. Dual Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology.

4. Up to 24 hours requires separately purchased Ultra Capacity Battery and customer download of the latest Intel graphics driver and HP BIOS. Notebook must be configured with optional Intel 80GB SSD drive and HP Illumi-Lite LED display and requires XP operating system. Battery life will vary depending on the product, model, configuration, loaded applications, features, and power management settings. The maximum capacity of the battery will decrease with time and usage.

5. For the use cases outlined in the DOD 5220.22-M Supplement.

6. Some functionality of this technology, such as Intel Active Management technology and Intel Virtualization technology, requires additional third-party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on third-party software providers. Compatibility with future "virtual appliances" and Microsoft operating system is yet to be determined.

7. Intel® vPro technology includes Intel Active Management Technology (Intel AMT). This technology requires the computer system to have an Intel® AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes. With regard to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating or powered off. For more information, see www.intel.com/vpro.

8. The Intel Execute Disable Bit feature combined with Microsoft Windows XP Service Pack 2 provides additional protection against buffer overflow viruses similar to MSBlaster, Slammer and SoBig! Execute Disable Bit (XD) is only enabled by certain operating systems including the current versions of Microsoft® Windows®, Linux and BSD Unix. Protection of the OS or applications may not be enabled by default. After properly installing the appropriate operating system release, users must enable the protection of their applications and associated files from buffer overrun attacks. Consult your OS documentation for information on enabling XD. Contact your application software vendor for information regarding use of the application in conjunction with XD. It is strongly recommended that users continue to use third-party anti-virus software as part of their security strategy.

1. Wireless access point and Internet service required. Availability of public wireless access points limited.

2. Test results are not a guarantee of future performance under these test conditions.