

HP EliteBook 850 G8

Detailed Specifications:

Resolution Options:

- **HP EliteBook 850 G8** ⇒ Full HD (1920 x 1080) Anti-glare, non-touch display.
- Full HD with touchscreen.
- **4K UHD (3840 x 2160)** for those needing superior clarity and detail.
- **Brightness:** Ranges from 250 nits (standard) to 1000 nits in some premium configurations, ideal for working in bright environments.
- **Color Accuracy:** Good sRGB coverage (typically around 72%), providing accurate color reproduction, especially important for professionals in design or media work.

2. Processor (CPU):

- Intel Core i5 or i7 (11th Gen) processors:
- i5 options typically have **4 cores, while i7 options provide 6 cores** for enhanced multitasking and demanding applications.
- **The Intel Core i7** variant is ideal for professionals working with heavy multitasking, content creation, or data analysis.
- **Intel vPro Technology (optional)** is available, which provides enhanced remote management, security, and power efficiency – useful for IT management in business environments.

3. Memory (RAM):

- **8GB or 16GB DDR4 RAM**, which should be sufficient for most business and productivity tasks.
- **Expandable Memory:** Some models allow for upgrading RAM up to **64GB** for users with advanced needs, such as virtual machines, CAD software, or heavy multitasking.

4. Storage Options:

SSD Storage:

- **256GB, 512GB, or 1TB** PCIe NVMe M.2 SSD storage options, which significantly improve speed compared to traditional HDDs.
- **SSDs** offer faster boot times, quicker file access, and better overall system responsiveness.
- **Dual Storage Options:** Some configurations allow for both an SSD for the operating system and a secondary HDD or SSD for data storage, offering a balance of speed and capacity.

5. Graphics:

- **Intel Iris Xe Graphics:** Integrated graphics, offering solid performance for general business use, video streaming, and some light gaming or graphic tasks.
- **Optional AMD Radeon or Intel Iris Xe MAX** (for select models) offers better performance in tasks that require more graphical power, like editing photos, videos, or light gaming.

6. Battery Life:

- **Battery:** Up to **53 Whr** (Watt-hours), **offering up to 14 hours of battery life** on standard configurations (with Full HD display).
- **HP Fast Charge:** Charges up to 50% in around 30 minutes, making it easy to get back to work quickly if you're low on battery.
- **Battery life** may vary depending on workload, screen brightness, and power settings.

7. Connectivity:

- **Wi-Fi 6 (802.11ax):** Offers faster and more reliable wireless internet performance, with reduced latency and better handling of multiple connected devices in busy environments.
- **Bluetooth 5.2:** Ensures better connectivity with peripherals such as wireless mice, headsets, and other devices.

Ports:

- **2 x USB-A 3.2 Gen 1** (for connecting older devices like external drives or printers).
- **2 x USB-C 3.2 Gen 2** (one with Power Delivery and DisplayPort 1.4).
- **RJ-45 Ethernet port** (for wired connections, ensuring fast and reliable network access).
- **1 x headphone/microphone combo jack.**
- **Optional 4G LTE / 5G:** Ensures you're always connected even when Wi-Fi isn't available. This is especially beneficial for professionals who work on the go or in areas without reliable Wi-Fi.

8. Keyboard & Input:

- **Backlit Keyboard:** Full-size, spill-resistant, and comfortable to type on. It's especially helpful in low-light environments.
- **Precision Touchpad:** With multi-touch gesture support (pinch to zoom, swipe to scroll), providing responsive and intuitive navigation.
- **Optional Fingerprint Reader:** Integrated for biometric login and enhanced security.
- **HP Privacy Camera:** With a mechanical shutter, providing privacy protection when you're not using the webcam.

9. Security Features:

- **HP Wolf Security for Business:** A comprehensive security suite to help protect your device and data from threats.
- **TPM 2.0 (Trusted Platform Module):** Hardware-based security for encryption, which is essential for business security.
- **IR Camera for Facial Recognition:** In combination with Windows Hello, allowing for secure and fast login without a password.

- **Fingerprint Reader:** Embedded in the power button for secure access.
- **HP Sure Start:** Self-healing BIOS that can recover from attacks or corruption.
- **HP Sure Click:** Helps protect against malicious web content and file-based threats.

10. Durability:

- **MIL-STD-810G Certification:** The EliteBook 850 G8 passes military standard tests, making it resistant to drops, spills, dust, and extreme temperatures.
- **Corrosion-Resistant Coating:** Ensures the device maintains its appearance over time.

11. Audio & Webcam:

- **Speakers:** Dual stereo speakers with **HP Audio Boost** for clear sound.
- **HD Webcam with HP Enhanced Lighting:** Good quality video for meetings and conference calls.
- **Noise Reduction:** Built-in AI to reduce background noise, which is especially useful in noisy environments.

12. Operating System:

- **Windows 10 Pro:** Most models come with Windows 10 Pro, designed for business environments. It includes features like **BitLocker**, **Group Policy**, and remote desktop capabilities.
 - **Upgrade to Windows 11 Pro** is available, offering more modern features like better multitasking.
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Advanced Features and Customization Options:

13. Customization & Configuration Options:

- The HP EliteBook 850 G8 is designed to meet the varying needs of business users, and it comes in different configurations. Here are some of the key customization options:

Display:

- The option to choose a **touchscreen** for increased interactivity (especially useful for presentations, meetings, and creative work).
- **Anti-reflective and anti-glare options:** These help reduce strain when working in bright environments or under direct light.
- Optional **privacy display** technology that reduces visibility from the sides, enhancing data protection when working in public places.

Processor Choices:

- **Intel Core i5** for budget-conscious users or those handling standard office tasks.
- **Intel Core i7 or Intel Core i7 vPro** for users who require more processing power, especially in areas like data analysis, video editing, or virtual meetings.
- **Intel Core i7 vPro** is an excellent choice for IT-managed businesses, providing enhanced remote management and security features.

Memory (RAM):

- **16GB RAM** is often sufficient for standard multitasking, but for heavy workflows, **32GB or even 64GB** configurations are available.

Storage Options:

- **1TB SSD** is ideal for professionals who work with large files (like video editing, database management, or CAD work).
- **Dual Storage: A 1TB SSD + 1TB HDD** option allows for faster data access with a large capacity for storing files.

14. IT Management and Enterprise Features:

Intel vPro Technology:

- This is especially useful for businesses that need robust IT management **capabilities**. Intel vPro allows remote management of the devices, which is useful in corporate settings for ensuring that the devices are always up-to-date, secure, and ready to perform.
- **Allows remote BIOS recovery**, meaning that IT departments can manage devices without needing physical access.

HP Wolf Security:

- **HP Sure Sense**: Uses AI-powered malware protection to keep your data safe from even the most sophisticated attacks.
- **HP Sure Click**: Protects you when you browse the web by isolating websites and email attachments, preventing malicious content from damaging the system.
- **HP Sure Start Gen6**: Offers self-healing BIOS, meaning if the BIOS is compromised, it will restore itself without the need for IT intervention.

HP Manageability Integration Kit:

- For enterprises that need to manage multiple devices, **HP's** integration kit allows for easy and seamless device management through Microsoft System Center Configuration Manager (SCCM) and other tools.

HP BIOSphere Gen6:

- Provides advanced protection against **BIOS** attacks and ensures the system is always secure and up to date.

Windows Autopilot:

- Simplifies device provisioning by allowing for remote setup and **deployment**, saving IT teams time on configuring machines for new employees.
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