

As of: 1/11/2010 the **HP EliteBook 8440w Notebook PC** addresses the Section 508 standards as described in the chart below.

Standard	Reference (36CFR)	Supporting Features*	Remarks*
<b>Software Applications and Operating Systems</b>			
<p>When software is designed to run on a system that has a keyboard, product functions shall be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.</p>	1194.21(a)	<p>Supports. Keyboard access exists for functions that can be identified with text labels. A mouse or other pointing device is not required for any of these functions.</p>	
<p>Applications shall not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards. Applications also shall not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.</p>	1194.21(b)	<p>Supports. This notebook PC does not interfere with documented accessibility features of the supported operating systems or other products that follow industry standards. (For example, the application maintains user-defined display settings such as high contrast and keyboard settings such as Sticky Keys.)</p>	
<p>A well-defined on-screen indication of the current focus shall be provided that moves among interactive interface elements as the input focus changes. The focus shall be programmatically exposed so that Assistive</p>	1194.21(c)	<p>Supports. The current focus is identified visually through the display and audibly through speech output systems. Assistive technology can track the focus as it changes. (For example, when the application runs with a screen enlargement program,</p>	

technology can track focus and focus changes.		the magnified area moves to follow changes in the focus.)	
Sufficient information about a user interface element including the identity, operation and state of the element shall be available to Assistive technology. When an image represents a program element, the information conveyed by the image must also be available in text.	1194.21(d)	Supports. Information about user interface elements is made available to Assistive Technology. Text equivalents for program element images are available for applications that adhere to standard Windows Application Programming Interfaces (APIs).	
When bitmap images are used to identify controls, status indicators, or other programmatic elements, the meaning assigned to those images shall be consistent throughout an application's performance.	1194.21(e)	Supports. Images used to identify programmatic elements have consistent meaning throughout the application.	
Textual information shall be provided through operating system functions for displaying text. The minimum information that shall be made available is text content, text input caret location, and text attributes.	1194.21(f)	Supports. This notebook PC uses the functions provided by the supported operating systems when displaying text (text content, text input caret location, and text attributes), adhering to standard Windows Application Programming Interfaces (APIs).	
Applications shall not override user selected contrast and color selections and other individual display attributes	1194.21(g)	Supports. This notebook PC maintains user selected contrast and color selections and other individual display attributes set through supported operating systems. (For example, if users set their system display settings to high contrast, the software can display all items in high contrast.)	
When animation is displayed, the information shall be displayable in at least one non-animated	1194.21(h)	Supports. This notebook PC provides the option of displaying animated information in a non-	

presentation mode at the option of the user.		animated mode.	
Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	1194.21(i)	Supports. This notebook PC provides redundant visual cues when color conveys information, indicates action, prompts for responses, or distinguishes visual elements. (For example, text labels are used with colors to indicate actions.)	
When a product permits a user to adjust color and contrast settings, a variety of color selections capable of producing a range of contrast levels shall be provided.	1194.21(j)	Supports. This notebook PC supports a variety of color and contrast selections through the supported operating systems.	
Software shall not use flashing or blinking text, objects, or other elements having a flash or blink frequency greater than 2 Hz and lower than 55 Hz.	1194.21(k)	Supports. This notebook PC does not use elements that flash or blink at frequencies greater than 2 Hz and less than 55 Hz.	
When electronic forms are used, the form shall allow people using Assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.	1194.21(l)	Supports. Assistive technology can access the information and functions required for completion and submission of electronic forms contained in the application.	See §1194.31 for Assistive Technology supported.
<b>Web-based Intranet and Internet Information and Applications</b>			
A text equivalent for every non-text element shall be provided (e.g., via "alt", "longdesc", or in element content).	1194.22(a)	Supports. Text equivalents exist for every non-text element that is required to comprehend content or to facilitate navigation.	
Equivalent alternatives for any multimedia presentation shall be synchronized with the	1194.22(b)	Not Applicable. This notebook PC does not have multimedia presentations.	

presentation.			
Web pages shall be designed so that all information conveyed with color is also available without color, for example from context or markup.	1194.22(c)	Not Applicable. This notebook PC does not have web pages that use color to convey information.	
Documents shall be organized so they are readable without requiring an associated style sheet	1194.22(d)	Not Applicable. This notebook PC does not run inside a web browser.	
Redundant text links shall be provided for each active region of a server-side image map	1194.22(e)	Not Applicable. This notebook PC does not have server-side image maps with active regions.	
Client-side image maps shall be provided instead of server-side image maps except where the regions cannot be defined with an available geometric shape.	1194.22(f)	Not Applicable. This notebook PC does not have image maps.	
Row and column headers shall be identified for data tables.	1194.22(g)	Not Applicable. This notebook PC does not have data tables.	
Markup shall be used to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.	1194.22(h)	Not Applicable. This notebook PC does not have complex data tables.	
Frames shall be titled with text that facilitates frame identification and navigation.	1194.22(i)	Not Applicable. This notebook PC does not have frames.	
Pages shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	1194.22(j)	Not Applicable. This notebook PC does not have web pages.	
A text-only page, with equivalent information or functionality, shall be provided to make a web site comply with the		Not Applicable. This	

<p>provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes.</p>	1194.22(k)	<p>notebook PC does not have web pages.</p>	
<p>When pages utilize scripting languages to display content, or to create interface elements, the information provided by the script shall be identified with functional text that can be read by Assistive technology.</p>	1194.22(l)	<p>Not Applicable. This notebook PC does not use scripting languages to display content or create interface elements.</p>	
<p>When a web page requires that an applet, plug-in or other application be present on the client system to interpret page content, the page must provide a link to a plug-in or applet that complies with §1194.21(a) through (l).</p>	1194.22 (m)	<p>Not Applicable. This notebook PC does not have web pages that require the use of applets, plug-ins or other similar applications.</p>	
<p>When electronic forms are designed to be completed on-line, the form shall allow people using Assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.</p>	1194.22(n)	<p>Supports. Assistive technology can access the information and functions required for completion and submission of electronic forms designed to be completed on-line.</p>	
<p>A method shall be provided that permits users to skip repetitive navigation links.</p>	1194.22(o)	<p>Not Applicable. This notebook PC does not have repetitive navigation links.</p>	
<p>When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.</p>	1194.22(p)	<p>Supports. When timed responses are required, users are given the option to request more time.</p>	

<b>Telecommunications Products</b>			
<p>Telecommunications products or systems which provide a function allowing voice communication and which do not themselves provide a TTY functionality shall provide a standard non-acoustic connection point for TTYs. Microphones shall be capable of being turned on and off to allow the user to intermix speech with TTY use.</p>	1194.23(a)	<p>Not Applicable. This notebook PC is not a telecommunications product or system that provides a function allowing voice communication or TTY functionality.</p>	
<p>Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non-proprietary standard TTY signal protocols.</p>	1194.23(b)	<p>Not Applicable. This notebook PC is not a telecommunications product that provides voice communication functionality.</p>	
<p>Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.</p>	1194.23(c)	<p>Not Applicable. This notebook PC is not a telecommunications system that provides voice mail, auto attendant, or interactive voice response.</p>	
<p>Voice mail, messaging, auto-attendant, and interactive voice response telecommunications systems that require a response from a user within a time interval, shall give an alert when the time interval is about to run out, and shall provide sufficient time for the user to indicate more time is required.</p>	1194.23(d)	<p>Not Applicable. This notebook PC is not a telecommunications system that provides voice mail, auto attendant, or interactive voice response requiring timed responses.</p>	
<p>Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs,</p>	1194.23(e)	<p>Not Applicable. This notebook PC does not have caller identification or similar telecommunications</p>	

and for users who cannot see displays.		functions.	
For transmitted voice signals, telecommunications products shall provide a gain adjustable up to a minimum of 20 dB. For incremental volume control, at least one intermediate step of 12 dB of gain shall be provided.	1194.23(f)	Not Applicable. This notebook PC is not a telecommunications product that provides voice signals.	
Requires that an automatic reset be installed on any telephone that allows the user to adjust the volume higher than the normal level. This is a safety feature to protect people from suffering damage to their hearing if they accidentally answer a telephone with the amplification turned too high	1194.23(g)	Not Applicable. This notebook PC does not have a telephone that allows users to adjust volume.	
Where a telecommunications product delivers output by an audio transducer which is normally held up to the ear, a means for effective magnetic wireless coupling to hearing technologies shall be provided	1194.23(h)	Not Applicable. This notebook PC is not a telecommunications product that delivers output by an audio transducer held to the ear.	
Interference to hearing technologies (including hearing aids, cochlear implants, and Assistive listening devices) shall be reduced to the lowest possible level that allows a user of hearing technologies to utilize the telecommunications product.	1194.23(i)	Not Applicable. This notebook PC is not a telecommunications product.	
Products that transmit or			

<p>conduct information or communication, shall pass through cross-manufacturer, non-proprietary, industry-standard codes, translation protocols, formats or other information necessary to provide the information or communication in a usable format. Technologies which use encoding, signal compression, format transformation, or similar techniques shall not remove information needed for access or shall restore it upon delivery.</p>	1194.23(j)	Not Applicable. This notebook PC is not a telecommunications product.	
<p>Controls and keys shall be tactilely discernible without activating the controls or keys</p>	1194.23 (k.1)	Supports. Individual controls and keys can be located and distinguished from adjacent keys by touch, without activating functions.	The "F" and "J" keys on the keyboard have raised marks. Controls are located on the front of the device for easy access. The "Eject" button for removable storage protrudes sufficiently beyond the system cabinet to provide clearance for actuation. The integrated mouse device must be deactivated from Microsoft Windows and emulated from the keyboard with Microsoft MouseKeys. Optionally, an external mouse can be used. Touch-sensitive control button operations can be alternately activated by other means such as the keyboard.
<p>Controls and keys shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2 N) maximum.</p>	1194.23 (k.2)	Supports. Controls, keys and latches are operable with one hand and do not require tight grasping, pinching or twisting of the wrist. The force required to activate controls, keys and latches is less than 5 lbs.	The display latch release and the power-off require only one hand with no simultaneous action.
<p>If key repeat is supported,</p>		Supports. The time delay between key repeats is	

<p>the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.</p>	<p>1194.23 (k.3)</p>	<p>adjustable to at least 2 seconds. The length of time the key can be held down before it starts repeating is adjustable to 2 seconds.</p>	
<p>The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.</p>	<p>1194.23 (k.4)</p>	<p>Supports. The status of locking and toggle controls or keys is displayed visually, as well as tactilely or audibly when activated.</p>	<p>Toggle LED indication exists for "Caps Lock", "Numlock", and "Scroll Lock" functions. Applications that use toggle keys provide an audio indication through Microsoft SoundSentry when the toggle keys have been activated or deactivated. Also, toggle LED and audio indication exist for power on.</p>
<p><b>Video and Multimedia Products</b></p>			
<p>All analog television displays 13 inches and larger, and computer equipment that includes analog television receiver or display circuitry, shall be equipped with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals. As soon as practicable, but not later than July 1, 2002, widescreen digital television (DTV) displays measuring at least 7.8 inches vertically, DTV sets with conventional displays measuring at least 13 inches vertically, and stand-alone DTV tuners, whether or not they are marketed with display screens, and computer equipment that includes DTV receiver or display circuitry, shall be equipped</p>	<p>1194.24(a)</p>	<p>Not Applicable. This notebook PC does not have analog television receiver or display circuitry.</p>	

<p>with caption decoder circuitry which appropriately receives, decodes, and displays closed captions from broadcast, cable, videotape, and DVD signals.</p>			
<p>Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.</p>	<p>1194.24(b)</p>	<p>Not Applicable. This notebook PC does not have tuner capabilities.</p>	
<p>All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain speech or other audio information necessary for the comprehension of the content, shall be open or closed captioned</p>	<p>1194.24(c)</p>	<p>Not Applicable. This notebook PC does not have training or informational productions containing audio.</p>	
<p>All training and informational video and multimedia productions which support the agency's mission, regardless of format, that contain visual information necessary for the comprehension of the content, shall be audio described.</p>	<p>1194.24(d)</p>	<p>Not Applicable. This notebook PC does not have training or informational video or multimedia productions.</p>	
<p>Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.</p>	<p>1194.24(e)</p>	<p>Not Applicable. This notebook PC does not have alternate text or audio descriptions.</p>	
<p><b>Self Contained, Closed Products</b></p>			
<p>Self contained products shall be usable by people with disabilities without requiring an end-user to</p>		<p>Not Applicable. This</p>	<p>The product may support this standard when used with other products that meet this standard. If this product will</p>

<p>attach Assistive technology to the product. Personal headsets for private listening are not Assistive technology.</p>	1194.25(a)	<p>notebook PC is not a self-contained product.</p>	<p>be used as part of a self-contained or closed product, please contact HP for additional information.</p>
<p>When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.</p>	1194.25(b)	<p>Supports. When timed responses are required, users are given the option to request more time.</p>	
<p>Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).</p>	1194.25(c)	<p>Supports. This notebook PC provides redundant controls as an alternate for touchscreens or contact-sensitive controls. The redundant controls support §1194.23 (k) (1) through (4).</p>	
<p>When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.</p>	1194.25(d)	<p>Supports. This notebook PC provides an alternative for biometric forms of identification or activation. The alternative does not require the user to possess a particular biological characteristic.</p>	
<p>When products provide auditory output, the audio signal shall be provided at a standard signal level through an industry standard connector that will allow for private listening. The product must provide the ability to interrupt, pause, and restart the audio at anytime.</p>	1194.25(e)	<p>Supports. This notebook PC provides audio signals at a standard level through a standard connector, for use with personal headphones, amplifiers, audio couplers, and other audio processing devices. The audio can be interrupted, paused, and restarted at anytime.</p>	
<p>When products deliver voice output in a public area, incremental volume control shall be provided with output amplification up to a level of at least 65 dB. Where the ambient noise level of the environment is above 45</p>	1194.25(f)	<p>Not Applicable. This notebook PC does not deliver</p>	<p>The product may support this standard when used with other products that meet this standard. If this product will be used as part of a self-</p>

<p>dB, a volume gain of at least 20 dB above the ambient level shall be user selectable. A function shall be provided to automatically reset the volume to the default level after every use.</p>		<p>voice output.</p>	<p>contained or closed product, please contact HP for additional information.</p>
<p>Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.</p>	<p>1194.25(g)</p>	<p>Supports. This notebook PC provides redundant visual cues when color conveys information, indicates action, prompts for responses, or distinguishes visual elements. (For example, text labels are used with colors to indicate actions.)</p>	
<p>When a product permits a user to adjust color and contrast settings, a range of color selections capable of producing a variety of contrast levels shall be provided.</p>	<p>1194.25(h)</p>	<p>Supports. This notebook PC supports a variety of color and contrast selections.</p>	
<p>Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.</p>	<p>1194.25(i)</p>	<p>Supports. This notebook PC is designed to avoid screen flicker with a frequency greater than 2 Hz and less than 55 Hz.</p>	
<p>Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following:</p>	<p>1194.25(j)</p>	<p>Supports. See §1194.25 (j) (1) through (4) below.</p>	
<p>The position of any operable control shall be determined with respect to a vertical plane, which is 48 inches in length, centered on the operable control, and at the maximum protrusion of the product within the 48 inch length (see Figure 1 of this part).</p>	<p>1194.25 (j.1)</p>	<p>Supports. Operable controls meet the specifications in this provision depending on where the customer installs the product.</p>	

Where any operable control is 10 inches or less behind the reference plane, the height shall be 54 inches maximum and 15 inches minimum above the floor.	1194.25 (j.2)	Supports. Operable controls meet the specifications in this provision depending on where the customer installs the product.	
Where any operable control is more than 10 inches and not more than 24 inches behind the reference plane, the height shall be 46 inches maximum and 15 inches minimum above the floor	1194.25 (j.3)	Supports. Operable controls meet the specifications in this provision depending on where the customer installs the product.	
Operable controls shall not be more than 24 inches behind the reference plane (see Figure 2 of this part).	1194.25 (j.4)	Supports. Operable controls meet the specifications in this provision depending on where the customer installs the product.	
<b>Desktop and Portable Computers</b>			
All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	1194.26(a)	Supports. All mechanically operated controls and keys support §1194.23 (k) (1) through (4).	
If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	1194.26(b)	Supports. This notebook PC provides redundant controls as an alternate for touchscreens or touch-operated controls. The redundant controls support §1194.23 (k) (1) through (4).	
When biometric forms of user identification or control are used, an alternative form of identification or activation, which does not require the user to possess particular biological characteristics, shall also be provided.	1194.26(c)	Supports. This notebook PC provides an alternative for biometric forms of identification or activation. The alternative does not require the user to possess a particular biological characteristic.	
Where provided, at least one of each type of expansion slots, ports and connectors shall comply	1194.26(d)	Supports. This notebook PC provides industry-standard expansion slots, ports and/or	

with publicly available industry standards.		connectors.	
<b>Functional Performance Criteria</b>			
At least one mode of operation and information retrieval that does not require user vision shall be provided, or support for Assistive technology used by people who are blind or visually impaired shall be provided.	1194.31(a)	Supports. This notebook PC does not require user vision for operation or information retrieval, and/or support for Assistive Technology is provided.	HP supports the following Assistive Technology to provide a mode of operation and information retrieval for people who are blind or visually impaired: Freedom Scientific: JAWS for Windows, GW Micro: Windows Eyes, IBM Via Voice Professional edition. Toggle LED indication exists for "Caps Lock", "Numlock", and "Scroll Lock" functions. Applications that use toggle keys provide an audio indication through Microsoft SoundSentry when the toggle keys are activated or deactivated. The system has a toggle LED indication for power on.
At least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 shall be provided in audio and enlarged print output working together or independently, or support for Assistive technology used by people who are visually impaired shall be provided.	1194.31(b)	Supports. This notebook PC does not require visual acuity greater than 20/70 for operation or information retrieval, and/or support for Assistive Technology is provided.	HP supports the following Assistive Technology to provide a mode of operation and information retrieval for people with visual acuity less than 20/70: Freedom Scientific MAGic.
At least one mode of operation and information retrieval that does not require user hearing shall be provided, or support for Assistive technology used by people who are deaf or hard of hearing shall be provided.	1194.31(c)	Supports. The product does not require user hearing for operation or information retrieval.	An audible and visible warning is issued when plugging a digital line into a modem and a no-dial-tone condition is indicated.

<p>Where audio information is important for the use of a product, at least one mode of operation and information retrieval shall be provided in an enhanced auditory fashion, or support for Assistive hearing devices shall be provided.</p>	1194.31(d)	<p>Supports. This notebook PC provides enhanced auditory features for important audio information (such as error tones, confirmation beeps, and verbal instructions) and/or provides support for assistive hearing devices.</p>	<p>HP supports the following to provide audio enhancement and support for assistive hearing: Freedom Scientific: JAWS for Windows, GW Micro: Windows Eyes. The volume level is selectable and the headphone jack is accessible.</p>
<p>At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive technology used by people with disabilities shall be provided.</p>	1194.31(e)	<p>Supports. This notebook PC does not require user speech for operation or information retrieval.</p>	
<p>At least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength shall be provided.</p>	1194.31(f)	<p>Supports. This notebook PC does not require fine motor control or simultaneous actions. The product is operable with limited reach and strength.</p>	<p>HP supports the following Assistive Technology for this purpose: Madentec Tracker 2000, WISP 2000, Madentec Magic Cursor, Keybowl OrbiTouch Keyboard. The "Eject" button for removable storage protrudes sufficiently beyond the system cabinet to provide clearance for activation. The display latch release and the power-off require only one hand with no simultaneous action.</p>
<p><b>Information, Documentation and Support</b></p>			
<p>Product support documentation provided to end-users shall be made available in alternate formats upon request, at no additional charge.</p>	1194.41(a)	<p>Supports. End-user documentation is available electronically in formats that can be used by screen readers or printed by Braille embossers.</p>	<p>Tested with Freedom Scientific JAWS version 8.0.</p>
<p>End-users shall have access to a description of the accessibility and compatibility features of products in alternate formats or alternate methods upon request, at</p>	1194.41(b)	<p>Supports. Accessibility information is available at <a href="http://www.hp.com/accessibility">www.hp.com/accessibility</a> and/or on the individual product specification sheet listed on <a href="http://www.hp.com">www.hp.com</a>. The accessibility information is</p>	

no additional charge.		available in alternate formats.	
Support services for products shall accommodate the communication needs of end-users with disabilities.	1194.41(c)	Supports. www.hp.com provides support services in accessible formats. Support for customers who are deaf or hard of hearing is available using TRS/VRS/WebCapTel at (877) 656-7058, Monday-Friday, 6 a.m. to 9 p.m. Mountain Time.	

\*Supporting features apply to the **HP EliteBook 8440w Notebook PC** product family as a whole. Individual products within this family that do not contain one or more of these features are identified as exceptions in the Remarks column, which may also include notes regarding definition, equivalent facilitation, scope of support, etc. Unless otherwise indicated, operating system information is included if applicable. For information on third party software and applications please contact the software manufacturer.

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