Product Name:ThinkPad T520 (ACCESSIBLE)

VPAT Comments: For a detailed description of the parent features and benefits, please refer to the following URL: http://shop.lenovo.com/us/products/professional-grade/thinkpad/t-series/t520/index.html

## **VPAT Summary:**

Criteria	Status	Remarks and Explanations
Section 1194.21 Software Applications and Operating Systems	Supports	Refer to Section 1194.21 in VPAT Details section below.
Section 1194.22 Web-based Internet information & applications	Supports	Refer to Section 1194.22 in VPAT Details section below.
Section 1194.23 Telecommunications Products	Supports	Refer to Section 1194.23 in VPAT Details section below.
Section 1194.24 Video and Multi-media Products	Supports	Refer to Section 1194.24 in VPAT Details section below.
Section 1194.25 Self-Contained, Closed Products	Supports	Refer to Section 1194.25 in VPAT Details section below.
Section 1194.26 Desktop and Portable Computers	Supports	Refer to Section 1194.26 in VPAT Details section below.
Section 1194.31 Functional Performance Criteria	Supports	Refer to Section 1194.31 in VPAT Details section below.
Section 1194.41 Information, Documentation, and Support	Supports	Refer to Section 1194.41 in VPAT Details section below.

## **VPAT Details**

<b>Section 1194.21</b>	Software Ap	plications a	and Operating	Systems - Detail
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Criteria	Supporting Features	Remarks and Explanations
		Product is compliant for this criteria. Tab keys are used to navigate
	blind and mobility-impaired users to access information without the use of the mouse.	within the help system. The F6 key is used to toggle between the TOC and help content. Standard mnemonics are supported. The applications in this product running under Windows XP/2K have their selectable functions accessible via the keyboard under Windows Operating System Each control has an equivalent keyboard action and all controls have associated keyboard functions.
(b) 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.		Product is compliant for this criteria. Product uses standard keyboard accessibility features built into the Operating System. No additional functions have been added.
(c) A well-defined on-screen indication of the current focus shall be	Supports:	Product is compliant for this criteria. All of the applications in the product
focus changes. The focus shall be programmatically exposed so that	When using the application with a keyboard, users can tell where they	running under Windows XP/2K have a visual indicator that consistently shows where the focus is located. Product uses standard OS indicators
		Product is compliant for this criteria. Where appropriate, controls have
information conveyed by the image must also be available in text.		an associative icon to represent the function being performed. The Magnifier tool along with other accessibility options are provided by Windows. No images are used as control objects.
(e) When bitmap images are used to identify controls, status indicators,	Supports:	Product is compliant for this criteria. Images not used to identify
or other programmatic elements, the meaning assigned to those images		controls.
		Product is compliant for this criteria. Text is provided through standard windows controls.
	System settings are inherited by the application so that customized	Product is compliant for this criteria. High contrast mode functions for all of the Windows applications in the product are useable. Applications in the Windows portion of this product conform to this specification.
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Supports: Application provides an option to display animation in a non-animated mode, allowing users with vision impairments equal access to the same information and reliable interaction with assistive technology.	Product is compliant for this criteria
		Product is compliant for this criteria. Color is used to enhance

information, indicating an action, prompting a response, or distinguishing		application, but not to control.
	convey information or indicate an action is available to users with visual	
	impairments.	
(j) When a product permits a user to adjust color and contrast settings, a		Product is compliant for this criteria.
variety of color selections capable of producing a range of contrast levels	When color customization is supported, a variety of color selections and	
shall be provided.	a range of contrast improves accessibility for users with vision	
	impairments.	
(k) Software shall not use flashing or blinking text, objects, or other	Supports:	Product is compliant for this criteria. No flashing or blinking objects are
elements having a flash or blink frequency greater than 2 Hz and lower	The use of blinking text, objects or elements has been avoided,	used.
than 55 Hz.	reducing risk of seizures for users with photosensitive epilepsy.	
(I) When electronic forms are used, the form shall allow people using	Supports:	Product is compliant for this criteria.
Assistive Technology to access the information, field elements, and	The application design allows assistive technology access to information,	·
functionality required for completion and submission of the form,	field elements, and functionality required to complete and submit forms.	
including all directions and cues.		

# Section 1194.22 Web-based Internet information and applications - Detail

Criteria	Supporting Features	Remarks and Explanations
(a) A text equivalent for every non-text element shall be provided (e.g.,	Not applicable	
via "alt", "longdesc", or in element content).		
(b) Equivalent alternatives for any multimedia presentation shall be	Supports:	Product is compliant for this criteria.
synchronized with the presentation.	Synchronized captions, transcripts, text and/or audio descriptions of	
	multimedia presentations are provided to ensure meaningful	
	interpretation by disabled users.	
(c) Web pages shall be designed so that all information conveyed with	Not applicable	
color is also available without color, for example from context or markup.		
(d) Documents shall be organized so they are readable without requiring	Not applicable	
an associated style sheet.		
(e) Redundant text links shall be provided for each active region of a	Not applicable	
server-side image map.		
(f) Client-side image maps shall be provided instead of server-side	Not applicable	
image maps except where the regions cannot be defined with an		
available geometric shape.	Nist and Code Is	
(g) Row and column headers shall be identified for data tables.	Not applicable	
(h) Markup shall be used to associate data cells and header cells for	Not applicable	
data tables that have two or more logical levels of row or column		
headers.	Not applicable	
(i) Frames shall be titled with text that facilitates frame identification and navigation.	not applicable	
(j) Pages shall be designed to avoid causing the screen to flicker with a	Not applicable	
frequency greater than 2 Hz and lower than 55 Hz.	Not applicable	
(k) A text-only page, with equivalent information or functionality, shall be	Not applicable	
provided to make a web site comply with the provisions of this part, wher		
compliance cannot be accomplished in any other way. The content of the		
text-only page shall be updated whenever the primary page changes.		
(I) When pages utilize scripting languages to display content, or to create	Not applicable	
interface elements, the information provided by the script shall be		
identified with functional text that can be read by Assistive Technology.		
(m) When a web page requires that an applet, plug-in or other	Not applicable	
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).		
(n) When electronic forms are designed to be completed on-line, the	Not applicable	
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.		
(o) A method shall be provided that permits users to skip repetitive	Not applicable	
navigation links.		
(p) When a timed response is required, the user shall be alerted and	Supports:	Product is compliant for this criteria. No timed instructions. All user
given sufficient time to indicate more time is required.	When a timed response is required, an option to request more time to	feedback remains on screen until user action is completed.
	complete the action is provided to the user.	

Criteria	Supporting Features	Remarks and Explanations
(a) 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.	Not applicable	
(b) Telecommunications products which include voice communication functionality shall support all commonly used cross-manufacturer non proprietary standard TTY signal protocols.	Not applicable	
(c) Voice mail, auto-attendant, and interactive voice response telecommunications systems shall be usable by TTY users with their TTYs.	Not applicable	
(d) Voice mail, messaging, auto-attendant, and interactive voice response telecommunication 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.	Not applicable	
(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs and for users who cannot see displays.	Not applicable	
(f) 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.	Not applicable	
(g) If the telecommunications product allows a user to adjust the receiver volume, a function shall be provided to automatically reset the volume to the default level after every use.		
(h) 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.	Not applicable	
(i) Interface 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.	Not applicable	
(j) Products that transmit or 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 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.		
(k)(1) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be tactilely discernible without activating the controls or keys.		Product is compliant for this criteria. All controls and keys are discernible without being activated.
(k)(2) Products which have mechanically operated controls or keys shall comply with the following: Controls and Keys shall be operable with one hand and shall not require tight grasping, pinching, twisting of the wrist. The force required to activate controls and keys shall be 5 lbs. (22.2N) maximum	Supports:	Product is compliant for this criteria All controls and keys can be operated by one hand and require less than 5 lbs of force.
(k)(3) Products which have mechanically operated controls or keys shall comply with the following: If key repeat is supported, the delay before repeat shall be adjustable to at least 2 seconds. Key repeat rate shall be adjustable to 2 seconds per character.	An option to change keyboard repeat rate is provided so users can adjust the rate to accommodate their needs.	Product is compliant for this criteria. The delay for key repeat rate can be adjusted by user to at least 2 seconds.
(k)(4) Products which have mechanically operated controls or keys shall	The status of locking and toggle controls or keys can be seen as well as	Product is compliant for this criteria. All controls, locks, and keys are easily discernible visually and through touch and sound.

# Section 1194.24 Video and Multi-media Products - Detail

Criteria	Supporting Features	Remarks and Explanations
(a) All analog television displays 13 inches and larger, and computer	lot applicable	
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 with caption decoder circuitry which appropriately receives,		
decodes, and displays closed captions from broadcast, cable, videotape	,	
and DVD signals.		
(b) Television tuners, including tuner cards for use in computers, shall be	Not applicable	
equipped with secondary audio program playback circuitry.	0	Don't of the control of the different to the control of the contro
(c) All training and informational video and multimedia productions which		Product is compliant for this criteria. No special audio or video used in
support the agency's mission, regardless of format, that contain speech		this application.
or other audio information necessary for the comprehension of the	product supports captioning for relevant audio for deaf and hard of	
content, shall be open or closed captioned.	hearing users.	Due dont in consultant for this criteria
(d) All training and informational video and multimedia productions which		Product is compliant for this criteria.
support the agency's mission, regardless of format, that contain visual	Training and informational video and multimedia provided with the	
information necessary for the comprehension of the content, shall be	product supports audio descriptions of visual information for blind users.	
audio described.	N. d. P. I.I.	
(e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.	Not applicable	
accompliant chair be accir colociable arricos permanent.		

Section 1194.25 Self-Contained, Closed Products - Detail

Criteria	Supporting Features	Remarks And Explanations
(a) Self contained products shall be usable by people with disabilities without requiring an end-user to attach Assistive Technology to the product. Personal headsets for private listening are not Assistive Technology.	Not applicable	
(b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.	Not applicable	
(c) Where a product utilizes touchscreens or contact-sensitive controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	Not applicable	
(d) 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.	Not applicable	
(e) 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.	Supports: Audio signal is provided at a standard level via a standard connector so the audio can be interrupted, paused, or restarted at anytime.	Product is compliant for this criteria.
(f) 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 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.	Not applicable	
(g) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing a visual element.	Supports: Color is used only as an enhancement, and an alternate means to convey information or indicate an action is available to users with visual impairments.	Product is compliant for this criteria.
(h) 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.		
(i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.	Not applicable	
(j) (1) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: 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 on products which are freestanding, non-portable, and intended to be used in one location and which have operable controls.		

(j)(2) Products which are freestanding, non-portable, and intended to be	
used in one location and which have operable controls shall comply with	
the following: 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.	

- (j)(3) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: 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.
- (j)(4) Products which are freestanding, non-portable, and intended to be used in one location and which have operable controls shall comply with the following: Operable controls shall not be more than 24 inches behind the reference plane.

## Section 1194.26 Desktop and Portable Computers - Detail

Criteria	Supporting Features	Remarks and Explanations
(a) All mechanically operated controls and keys shall comply with	Supports:	Product is compliant for this criteria.
§1194.23 (k) (1) through (4).	See 1194.23(k) 1 through 4.	
(b) If a product utilizes touchscreens or touch-operated controls, an input	t Supports:	Product is compliant for this criteria.
method shall be provided that complies with §1194.23 (k) (1) through (4	). See 1194.23(k) 1 through 4.	
(c) When biometric forms of user identification or control are used, an	Supports:	Product is compliant for this criteria.
alternative form of identification or activation, which does not require the	An alternative means to biometric identification is available.	
user to possess particular biological characteristics, shall also be		
provided.		
(d) Where provided, at least one of each type of expansion slots, ports	Supports:	Product is compliant for this criteria Only industry standards are used
and connectors shall comply with publicly available industry standards.	The product design uses industry standard ports so that alternative equipment and assistive technologies can be accommodated.	for all ports, connectors and expansion slots.

## Section 1194.31 Functional Performance - Detail

Criteria	Supporting Features	Remarks and Explanations
(a) 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.	Supports with exception:	Product is compliant for this criteria. All active controls have associated keyboard functions that do not require user vision. Assistive technologies are supported.
enlarged print output working together or independently, or support for	See the following for supporting features:	Product is compliant for this criteria. All active controls have associated keyboard functions that do not require user vision greater than 20/70. Assistive technologies are supported.
(c) 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.	Supports: Hardware is designed to alert the software application of system sounds when needed and the software then provides a visual cue so that deaf or hard of hearing users can complete the task.  See the following for other supporting features: - 1194.22 b, m - 1194.23 k4 - 1194.24 c - 1194.25 e, f	Product is compliant for this criteria.

least one mode of operation and information retrieval shall be provided in	Supports: Hardware provides a physical volume control and/or an interface so that volume can be controlled by software.  See the following for other supporting features: - 1194.23 k4 - 1194.25 e, f	Product is compliant for this criteria.
(e) 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.	Not applicable	Product is compliant for this criteria. User speech is not required to operate system. However, assistive technology is supported.
(f) 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.	Supports with exception: See the following for supporting features:  - 1194.21 a, b - 1194.22 l, p - 1194.23 k1, k2, k3 - 1194.25 b, j1, j2, j3, j4 - 1194.26 d	Product is compliant for this criteria. System uses standard keyboard accessibility features. Standard mnemonics are supported. Fine motor skills are not required for operation and information retrieval.

Section 1194.41 Information, Documentation, and Support - Detail			
Criteria	Supporting Features	Remarks and Explanations	
(a) Product support documentation provided to end-users shall be made	Supports:	Product is compliant for this criteria.	
available in alternate formats upon request, at no additional charge.	Product support documentation is provided in at least one accessible format.	Documentation of Userguides is in .PDF format.	
(b) End-users shall have access to a description of the accessibility and	Supports:	Product is compliant for this criteria.	
compatibility features of products in alternate formats or alternate	Documentation includes a description of accessibility and compatibility	Accelerator keys are consistent througut the product. Use Operating	
methods upon request, at no additional charge.	features that make it easier for people with disabilities to use the product	t. System documentation on how to access functions by keyboard and	
	Those descriptions are available in alternate formats upon request.	mouse. Standard Windows controls are used.	
(c) Support services for products shall accommodate the communication	Supports:	Product is compliant for this criteria.	
needs of end-users with disabilities.	In addition to standard Lenovo help desk and support Web sites, Lenovo		
	has established a TTY telephone service for use by deaf or hard of		
	hearing customers to access sales and support services.		

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