

Product Name:ThinkPad Tablet 2.0 (accessible)

VPAT Comments:

For a detailed description of the parent features and benefits, please refer to the following URL:
<http://www.lenovo.com/products/us/tablet/thinkpad/thinkpad-tablet-2/>

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	Not applicable	Not applicable
Section 1194.23 Telecommunications Products	Supports	Refer to Section 1194.23 in VPAT Details section below.
Section 1194.24 Video and Multi-media Products	Not applicable	Not applicable
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**Section 1194.21 Software Applications and Operating Systems - Detail**

Criteria	Supporting Features	Remarks and Explanations
(a) 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.	Supports: A keyboard can be used to achieve all tasks in the application, allowing blind and mobility-impaired users to access information without the use of the mouse.	Product meets accessibility criteria. Supports through equivalent facilitation. Software on the Lenovo tablet can be controlled by using the touch screen. The touch-sensitive screen includes a keyboard for text input and requires no force. Software available on the Android Market can be installed which will allow speech to text translation, providing a touch-free method for inputting text. In addition, a USB keyboard can be attached to the tablet to allow traditional keyboard equivalents for all actions.
(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.	Supports: Operating systems provide accessibility features that allow disabled users to customize their preferences. This application preserves those accessibility user preference settings. For example, if Sticky Keys option is selected by a mobility-impaired user, this option will continue to be activated when used with this application.	Product meets accessibility criteria.
(c) 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 Technology can track focus and focus changes.	Supports: When using the application with a keyboard, users can tell where they are on the screen and the information is available to assistive technologies to communicate screen location to visually impaired users.	Product meets accessibility criteria. Lenovo tablets support standard USB mouse and keyboard which display an on screen cursor to indicate where the focus is.
(d) 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.	Supports: This software application allows a screen reader to describe the user interface environment and controls to a blind user. For example, if you tab through a form and find a radio button, the user would be able to determine it is a radio button and the current selection status of the button.	There are 3 images: Nav forward, Nav back and print which are images only. When the mouse is hovered over them, tool-tip text describing their function appears.
(e) 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.	Supports: The meaning assigned to images used in the application is consistent and unique, minimizing confusion of the context of use for those images.	Product meets accessibility criteria.
(f) 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.	Supports: Text information is accessible so assistive technologies can communicate content, attributes and caret location to blind users.	All text is stored in resource file and uses standard Operating System API calls for access and setting of controls. Product meets accessibility criteria.
(g) Applications shall not override user selected contrast and color selections and other individual display attributes.	Supports: System settings are inherited by the application so that customized preferences will not need to be continually reset. For example, color contrast settings enhanced for a low vision user would be preserved by the application.	Product meets accessibility criteria
(h) When animation is displayed, the information shall be displayable in at least one non-animated presentation mode at the option of the user.	Not applicable	
(i) Color coding shall not be used as the only means of conveying information, indicating an action, prompting a response, or distinguishing	Supports: Color is used only as an enhancement, and an alternate means to	Product meets accessibility criteria

a visual element.	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 variety of color selections capable of producing a range of contrast levels shall be provided.	Not applicable	
(k) 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.	Supports: The use of blinking text, objects or elements has been avoided, reducing risk of seizures for users with photosensitive epilepsy.	Product meets accessibility criteria
(l) 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.	Not applicable	

Section 1194.23 Telecommunications Products - Detail

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.	Not applicable	
(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.	Not applicable	
(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.	Supports: Touch can be used to identify and distinguish controls and keys without activating them.	Product meets accessibility criteria. The hard buttons on the Thinkpad tablet are tactilely discernible keys. In addition, USB keyboard with tactilely discernible keys can be attached.
(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	Not applicable	
(k)(3) Products which have mechanically operated controls or keys shall	Not applicable	

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.		
(k)(4) Products which have mechanically operated controls or keys shall comply with the following: The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	Supports: The status of locking and toggle controls or keys can be seen as well as distinguished by touch and/or sound when activated.	Product meets accessibility criteria. The hard buttons on the Thinkpad tablet are tactilely discernible keys. In addition, USB keyboard with tactilely discernible keys can be attached.

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 meets accessibility 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 meets accessibility 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.	Not applicable	
(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.	Not applicable	
(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 §1194.23 (k) (1) through (4).	Not applicable	
(b) If a product utilizes touchscreens or touch-operated controls, an input method shall be provided that complies with §1194.23 (k) (1) through (4).	Supports: See 1194.23(k) 1 through 4.	Product meets accessibility criteria. USB mouse can be used in place of touchscreen and touch-operated controls
(c) 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.	Supports: An alternative means to biometric identification is available.	Product meets accessibility criteria.
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	Supports: The product design uses industry standard ports so that alternative equipment and assistive technologies can be accommodated.	Product meets accessibility criteria.

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: See the following for supporting features: - 1194.21 a, b, c, d, e, f, h, i, l - 1194.22 all - 1194.23 k1, k4 - 1194.24 d - 1194.25 a, b, c, e, f, g - 1194.26 b, d	Product meets accessibility criteria. USB mouse can be used in place of touchscreen and touch-operated controls. The hard buttons on the Thinkpad tablet are tactilely discernable keys. In addition, USB keyboard with tactilely discernable keys can be attached. USB and microUSB ports are available. Software on the Lenovo tablet can be controlled by using the touch screen. The touch-sensitive screen includes a keyboard for text input and requires no force. In addition, a USB keyboard can be attached to the tablet to allow traditional keyboard equivalents for all actions. Lenovo tablets support standard USB mouse and keyboard which display an on screen cursor to indicate where the focus is. Lenovo tablet supports assistive technologies. Lenovo tablet enables users to select display characteristics that cannot be altered by applications.
(b) 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 what are visually impaired shall be provided.	Supports: See the following for supporting features: - 1194.21 c, g, i, j, l - 1194.22 n - 1194.25 h - 1194.26 d	Product meets accessibility criteria Lenovo tablets support standard USB mouse and keyboard which display an on screen cursor to indicate where the focus is. Lenovo tablet supports assistive technologies.
(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 meets accessibility criteria
(d) Where audio information is important for the use of the 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.	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 meets accessibility criteria. Hardware volume controls as well as a software volume interface allows the user to adjust the volume.
(e) At least one mode of operation and information retrieval that does not require user speech shall be provided, or support for Assistive	Not applicable	

<p>Technology used by people with disabilities shall be provided.</p> <p>(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.</p>	<p>Supports: See the following for supporting features:</p> <ul style="list-style-type: none"> - 1194.21 a, b - 1194.22 l, p - 1194.23 k1, k2, k3 - 1194.25 b, j1, j2, j3, j4 - 1194.26 d 	<p>Product meets accessibility criteria . No timed instructions. All user feedback remains on screen until user action is completed. The hard buttons on the Lenovo tablet are tactilely discernable keys. In addition, USB keyboard with tactilely discernable keys can be attached. Software on the Lenovo tablet can be controlled by using the touch screen. The touch-sensitive screen includes a keyboard for text input and requires no force. In addition, a USB keyboard can be attached to the tablet to allow traditional keyboard equivalents for all actions.</p>
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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 available in alternate formats upon request, at no additional charge.	Not applicable	
(b) 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 no additional charge.	Not applicable	
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	<p>Supports: In addition to standard IBM help desk and support Web sites, IBM has established a TTY telephone service for use by deaf or hard of hearing customers to access sales and support services.</p>	Product meets accessibility criteria

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