

VPAT™ for Apple Thunderbolt Display

The following Voluntary Product Accessibility information refers to the **Apple Thunderbolt Display**. For more information on the accessibility features of this product and to learn more about this product's features, visit www.apple.com/displays and www.apple.com/accessibility

VPAT™ Voluntary Product Accessibility Template *Summary Table*

Criteria	Supporting Features	Remarks and Explanations
Section 1194.21 Software Applications and Operating Systems	Not Applicable	The Apple Thunderbolt Display is adjusted via the display control panel in OS X.
Section 1194.22 Web-based Internet Information and Applications	Not Applicable	The Apple Thunderbolt Display is not a Web-based application.
Section 1194.23 Telecommunications Products	Please refer to the attached VPAT	Section 1194.23(k) and its subparts apply to the Apple Thunderbolt Display.
Section 1194.24 Video and Multi-media Products	Not Applicable	The Apple Thunderbolt Display does not contain television tuner components. Any video or multimedia displayed is controlled via the attached computer.
Section 1194.25 Self-Contained, Closed Products	Not Applicable	The Apple Thunderbolt Display is not a self-contained, closed products.
Section 1194.26 Desktop and Portable Computers	Please refer to the attached VPAT	
Section 1194.31 Functional Performance Criteria	Please refer to the attached VPAT	
Section 1194.41 Information, Documentation and Support	Please refer to the attached VPAT	

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 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.	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	

<p>(g) If the telecommunications product allows a user to adjust the receive volume, a function shall be provided to automatically reset the volume to the default level after every use.</p>	<p>Not applicable</p>	
<p>(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.</p>	<p>Not applicable</p>	
<p>(i) 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.</p>	<p>Not applicable</p>	
<p>(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 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>	<p>Not applicable</p>	
<p>(k) Products which have mechanically operated controls or keys, shall comply with the following:</p>		
<p>(1) Controls and keys shall be tactilely discernible without activating the controls or keys.</p>	<p>Not applicable</p>	<p>The Apple Thunderbolt Display has no interface buttons. The device is activated by plugging it into a supported Mac computer, and all settings are adjusted through the OS X operating system.</p>

(2) 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.	Not applicable	The Apple Thunderbolt Display has no interface buttons. The device is activated by plugging it into a supported Mac computer, and all settings are adjusted through the OS X operating system.
(3) 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.	Not applicable	
(4) The status of all locking or toggle controls or keys shall be visually discernible, and discernible either through touch or sound.	Not applicable	

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	See Section 1194.23 (k) (1) through (4).
(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).	Not applicable	
(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.	Not applicable	
(d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards.	Supported	The Apple Thunderbolt Display utilizes a Thunderbolt connector to connect with the attached computer. In addition, 3 USB ports, one FireWire port, one Ethernet port and one additional Thunderbolt port is provided on these displays.

Section 1194.31 Functional Performance Criteria – 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.	Not applicable	Support may be provided via the attached computer
(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 who are visually impaired shall be provided.	Not applicable	Support may be provided via the attached computer
(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	Supported	Hearing is not required for operation of the Apple Thunderbolt Display.
(d) 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.	Supported	Hearing is not required for operation of the Apple Thunderbolt Display.
(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.	Supported	Speech is not required for operation of the Apple Thunderbolt Display.
(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.	Supported	The Apple Thunderbolt Display does not require fine motor control or simultaneous actions. Features are operable either on the display surface or via the OS X operating system

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	Partially supported	PDF support documentation is available at http://www.apple.com/support/displays/
(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.	Supported	Information about Apple access technologies is available at www.apple.com/accessibility .
(c) Support services for products shall accommodate the communication needs of end-users with disabilities.	Supported	E-mail support and discussion groups are available at http://www.apple.com/support/displays/

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