

Summary Table
Voluntary Product Accessibility Template

Date: July 1, 2002

Name of Product: Matias Half-QWERTY Keyboard

Contact for More Information: info@halfqwerty.com, or 1-888-ONE-HAND

<i>Criteria</i>	<i>Supporting Features</i>	<i>Remarks and Explanations</i>
Section 1194.21 Software Applications and Operating Systems	Not Applicable	Product is a physical keyboard, not software
Section 1194.22 Web-based internet information and applications	Not Applicable	Product is a physical keyboard, not web information
Section 1194.23 Telecommunications Products	Supports all accessibility requirements relating to mechanically operated controls or keys	Keyboard can be used as an accessible interface to telecommunications products requiring fast one-handed touch typing
Section 1194.24 Video and Multi-media Products	Not Applicable	Product is a physical keyboard, not video
Section 1194.25 Self-Contained, Closed Products	Not Applicable	Keyboard needs to be attached to a computer to be functional
Section 1194.26 Desktop and Portable Computers	Supports all accessibility requirements relating to mechanically operated controls or keys	Keyboard allows fast one-handed touch typing documented via research at University of Toronto to be up to 88% as fast as regular two-handed touch typing. Keyboard also looks similar to traditional keyboards and can be operated as a regular keyboard with two-handed touch typing
Section 1194.31 Functional Performance Criteria	Supports the various functional performance criteria	Product is usable by people with a wide range of disabilities, who benefit from the ability to touch type with one hand

**Section 1194.23 Telecommunications Products - Detail
Voluntary Product Accessibility Template**

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<i>Criteria</i>	<i>Supporting Features</i>	<i>Remarks and Explanations</i>
(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	

<p>(e) Where provided, caller identification and similar telecommunications functions shall also be available for users of TTYs, and for users who cannot see displays.</p>	<p>Not Applicable</p>	
<p>(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.</p>	<p>Not Applicable</p>	
<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</p>	<p>Not Applicable</p>	

<p>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>(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.</p>	<p>Supports. The standard F and J home keys on the keyboard have raised marks. This allows user to position their hand in home row position by touch alone, and therefore know the position of the rest of the keys.</p>	<p>Product is designed with high quality mechanical key switches, providing an excellent feel for typists.</p>
<p>(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.</p>	<p>Supports. Product is specifically designed to allow fast one-handed touch typing. Controls and keys require less than 5 lbs. force to activate, and do not require tight grasping, pinching or twisting of the wrist.</p>	<p>The one-handed touch typing methodology is very intuitive, backed by extensive research performed at the University of Toronto, and is patented.</p>
<p>(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.</p>	<p>Supports. Keyboard will allow the computer's operating system to set the desired key repeat, including levels of at least 2 seconds per character.</p>	<p>The Matias Half-QWERTY Keyboard will work with any computer operating system, and comes with three connector types (PS/2, USB, and ADB), to physically attach to virtually every possible personal computer combination.</p>
<p>(k)(4) Products which have</p>	<p>Supports When Combined</p>	<p>LED indicator lights provide</p>

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.	With Compatible Accessible Technology. Product on its own fully supports the requirement to provide visual discerning of toggle status. For touch or sound discerning of toggle status, an appropriate additional product (e.g., Microsoft SoundSentry) is required.	the visual discernment of toggle status.
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**Section 1194.26 Desktop and Portable Computers - Detail
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<i>Criteria</i>	<i>Supporting Features</i>	<i>Remarks and Explanations</i>
(a) All mechanically operated controls and keys shall comply with §1194.23 (k) (1) through (4).	See 1194.23 (k) (1-4)	
(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).	See 1194.23 (k) (1-4)	
(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	Supports. USB, PS/2 and ADB connectors included with keyboard	By providing one cable, with three connectors at the end, users have the utmost in flexibility in assuring compatibility of the keyboard with their computer system.

**Section 1194.31 Functional Performance Criteria - Detail
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<i>Criteria</i>	<i>Supporting Features</i>	<i>Remarks and Explanations</i>
(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. Keyboard provides raised marks on the F and J keys to allow blind people to position their keys on the home row.	The Matias Half-QWERTY Keyboard is well-suited for blind or visually impaired people, with many finding it a great way to do fast one-handed touch typing at the same time as their other hand touches a braille screen reader.
(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.	Supports. Keyboard provides raised marks on the F and J keys to allow visually impaired people to position their keys on the home row.	For those users who have some visual impairment, but who are not completely blind, the Matias Half-QWERTY Keyboard makes the learning curve shorter by effective use of LED indicator lights.
(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. Hearing is not required to operate the keyboard.	
(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.	Not Applicable	
(e) At least one mode of	Supports. Speech is not	

<p>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>	<p>required to operate the keyboard.</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. Keys can be operated by people with limited reach and strength, and do not require fine motor control or simultaneous actions.</p>	<p>“Sticky keys” is a feature of the keyboard designed in such a way as to allow disabled people who cannot press two keys at the same time, to access all the keyboard’s characters.</p>