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| **To:** | Apple Inc. (trademarkdocket@apple.com) |
| **Subject:** | U.S. TRADEMARK APPLICATION NO. 86857587 - SMART KEYBOARD - N/A |
| **Sent:** | 5/9/2019 5:55:18 PM |
| **Sent As:** | ECOM103@USPTO.GOV |
| **Attachments:** | Attachment - 1 |
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| **Subject:** | U.S. TRADEMARK APPLICATION NO. 86857587 - SMART KEYBOARD - N/A |

**UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO)**

**OFFICE ACTION (OFFICIAL LETTER) ABOUT APPLICANT'S TRADEMARK APPLICATION**

**U.S. APPLICATION SERIAL NO.**  86857587

**MARK:** SMART KEYBOARD

# *86857587*

**CORRESPONDENT ADDRESS:**
  THOMAS R LA PERLE

  APPLE INC

  ONE APPLE PARKWAY

  CUPERTINO, CA 95014

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VIEW YOUR APPLICATION FILE

**APPLICANT:** Apple Inc.

**CORRESPONDENT'S REFERENCE/DOCKET NO:**

  N/A

**CORRESPONDENT E-MAIL ADDRESS:**

  trademarkdocket@apple.com

# OFFICE ACTION

## STRICT DEADLINE TO RESPOND TO THIS LETTER

TO AVOID ABANDONMENT OF APPLICANT'S TRADEMARK APPLICATION, THE USPTO MUST RECEIVE APPLICANT'S COMPLETE RESPONSE TO THIS LETTER **WITHIN 6 MONTHS** OF THE ISSUE/MAILING DATE BELOW.  A RESPONSE TRANSMITTED THROUGH THE TRADEMARK ELECTRONIC APPLICATION SYSTEM (TEAS) MUST BE RECEIVED BEFORE MIDNIGHT **EASTERN TIME** OF THE LAST DAY OF THE RESPONSE PERIOD.

**ISSUE/MAILING DATE: 5/9/2019**

**THIS IS A FINAL ACTION.**

 INTRODUCTION

This Office action is in response to applicant's communication filed on April 2, 2019.

In a previous Office action(s) dated October 2, 2018, the trademark examining attorney refused registration of the applied-for mark based on the following: **Trademark Act Section 23(c) – Genericness of the mark**.

Based on applicant's response, the trademark examining attorney maintains and now makes *FINAL* said Section 23(c) refusal for the reasons set forth below. *See* 37 C.F.R. §2.63(b); TMEP §714.04.

## GENERICNESS REFUSAL UNDER TRADEMARK ACT SECTION 23(c)

Registration is refused and now made final on the **Supplemental Register** because the applied-for mark is generic and thus incapable of distinguishing applicant's goods. Trademark Act Sections 23(c) and 45, 15 U.S.C. §§1091(c), 1127; *see* TMEP §§1209.01(c) *et seq.*

A generic term is a common name that the relevant public uses or understands primarily as referring to the category or genus of the goods in question. *In re Nordic Naturals, Inc*., 755 F.3d 1340, 1342, 111 USPQ2d 1495, 1497 (Fed. Cir. 2014); *H. Marvin Ginn Corp. v. Int'l Ass'n of Fire Chiefs, Inc.*, 782 F.2d 987, 989-90, 228 USPQ 528, 530 (Fed. Cir. 1986); *see* TMEP §1209.01(c). Generic terms are by definition incapable of indicating a particular source of goods and cannot be registered as trademarks or service marks. *In re Cordua Rests., Inc.*, 823 F.3d 594, 599, 118 USPQ2d 1632, 1634 (Fed. Cir. 2016) (quoting *In re Merrill Lynch, Pierce, Fenner, & Smith, Inc.*, 828 F.2d 1567, 1569, 4 USPQ2d 1141, 1142 (Fed. Cir. 1987)); *see* TMEP §1209.01(c). Registering generic terms "would grant the owner of [a] mark a monopoly, since a competitor could not describe his goods as what they are." *In re Merrill Lynch, Pierce, Fenner, & Smith, Inc.*, 828 F.2d at 1569, 4 USPQ2d at 1142. Determining whether a mark is generic requires a two-step inquiry:

    (1)    What is the genus of goods at issue?

    (2)    Does the relevant public understand the designation primarily to refer to that genus of goods?

*In re Cordua Rests., Inc.*, 823 F.3d 594, 599, 118 USPQ2d 1632, 1634 (Fed. Cir. 2016) (citing *H. Marvin Ginn Corp. v. Int'l Ass'n of Fire Chiefs*, *Inc.*, 782 F.2d at 990, 228 USPQ at 530); TMEP §1209.01(c)(i).

Regarding the first part of the inquiry, the genus of the goods may be defined by an applicant's identification of goods. *See In re Cordua Rests., Inc.*, 823 F.3d at 602, 118 USPQ2d at 1636 (citing *Magic Wand Inc. v. RDB Inc.*, 940 F.2d 638, 640, 19 USPQ2d 1551, 1552 (Fed. Cir. 1991)); *see also In re 1800Mattress.com IP, LLC*, 586 F.3d 1359, 1361, 1363, 92 USPQ2d 1682, 1682, 1684 (Fed. Cir. 2009).

In this case, the application identifies the goods as an "accessory for a handheld mobile digital device, namely, a protective and decorative cover for a tablet computer that functions as a computer stand and incorporates a keyboard," which adequately defines the genus at issue.

Regarding the second part of the inquiry, the relevant public is the purchasing or consuming public for the identified goods. *Sheetz of Del., Inc. v. Doctor's Assocs. Inc.* , 108 USPQ2d 1341, 1351 (TTAB 2013) (citing *Magic Wand Inc. v. RDB Inc.*, 940 F.2d at 640, 19 USPQ2d at 1553). In this case, the relevant public comprises ordinary consumers who purchase applicant's goods, because there are no restrictions or limitations to the channels of trade or classes of consumers, this includes sophisticated and non-sophisticated consumers for all manner of professional and non-professional use and general and/or recreational use.

In assessing the genericness of a phrase, the evidence of record must show that the composite mark, when viewed as a whole, would be perceived by the relevant purchasing public as generic when used in connection with the relevant goods. *See In re Dial-A-Mattress Operating Corp.*, 240 F.3d 1341, 1345-46, 57 USPQ2d 1807, 1810-11 (Fed. Cir. 2001) (quoting *In re Am. Fertility Soc'y* , 188 F.3d 1341, 1348-49, 51 USPQ2d 1832, 1837 (Fed. Cir. 1999)); *Alcatraz Media, Inc. v. Chesapeake Marine Tours Inc.*, 107 USPQ2d 1750, 1760 (TTAB 2013); TMEP §1209.01(c)(i).

In the present case, applicant's wording is "SMART KEYBOARD" in International Class 9 for: "Accessory for a handheld mobile digital device, namely, a protective and decorative cover for a tablet computer that functions as a computer stand and incorporates a keyboard."

The examining attorney incorporates by reference ***the entirety of the evidence made of record*** in this matter and attaches additional evidence herein shows that the term "smart keyboard" is commonly used to refer to a broad array of keyboard peripherals featuring embedded inter-device communication technology.  *See, e.g.*:

· Moser, <u>*Hybrid Computer*</u>, U.S. Patent No.: 9,152,184, (issued October 6, 2015, https://patents.google.com/patent/US9152184");

· Tang et al, <u>*Smart Keyboard for Computer and Compact Devices*</u>, U.S. Patent Application No.: US2013022254A1, (published August 29, 2013, https://patents.google.com/patent/US20130222254A1);

· https://www.nordicsemi.com/Applications/Computer-Peripherals, (discussing wireless computer peripherals, including keyboards, and noting that "smart pens" are the newest types of peripheral devices and are used on tablets);

· https://www.banggood.com/OneBoard-Pro-Smart-Mechanical-Keyboard-Built-in-Android-4_4-Computer-p-966938.html?akmClientCountry=America&cur_warehouse=CN;

· http://www.gadgetify.com/oneboard-pro-smart-keyboard/;

· https://www.amazon.com/dp/B073JG5266/?tag=wccftech0a9-20;

· https://bibblebytes.com/4-best-smart-keyboards-12-9-inch-ipad-pro/, (reviewing different "Smart Keyboards" by Apple and others for use with the iPad Pro);

· https://joyofapple.com/blog/best-ipad-smart-keyboard-cases/, (reviewing different "smart keyboards" and using the term to describe a group of keyboard tablet peripherals);

· https://www.ikream.com/2019/04/7-best-smart-keyboard-for-12-9-inch-ipad-pro-30320;

· https://tabletunderbudget.com/bluetooth-keyboards-for-tablets/, (describing the Nulaxy "smart keyboard" for Android, iOS, and Windows devices); and,

· https://www.amazon.com/New-Trent-Airbender-Detachable-Bluetooth/dp/B012BTCZ9G/ref=cm_cr_arp_d_product_top?ie=UTF8, (Describing the New Trent detachable smart keyboard for use with applicant's iPad).

The examining attorney also attaches below, a 1994 news article taken from the LEXISNEXIS® database discussing the news subject's, Tanisys Technology, development of specialized Windows command software to be integrated into a "smart keyboard."

The ***<u>cumulative</u>*** evidence in this case shows that "SMART KEYBOARD," or close derivations thereof, is commonly used by relevant consumers to refer to keyboards featuring technology that allows for electronic control and connection with another device, such as a microprocessor, software, wireless technology, conductive materials, etc.  The cumulative evidence also shows that the term "SMART" is used in direct connection with a variety of computer peripherals, including computer mice, speakers and headsets that feature novel and non-traditional connectivity with their parent device, and are used as a common name for such basic computer peripherals.

The general consumer, both unsophisticated and sophisticated alike, in the circumstances surrounding this application, are conditioned to not view the adjective "SMART" as a source indicator, but as just part of the common name for a whole category of computer peripherals, that become ever-more complex as connective technology evolves and that these goods incorporate such technology.  Use of a term as an adjective or adjectival phrase does not prevent that term from being generic if it refers to the relevant genus or category of goods.  *See In re Serial Podcast, LLC*, 126 USPQ2d 1061, 1068 (TTAB 2018) (quoting TMEP §1209.01(c)(ii) and cases cited therein).  Thus, an adjective or adjectival phrase may be generic if it denotes a narrower subcategory of the identified goods.  *See, e.g.*, *In re Northland Aluminum Prods. Inc.*, 777 F.2d 1556, 1560, 227 USPQ 961, 964 (Fed. Cir. 1985) (holding BUNDT generic for ring cake mixes); *In re Mecca Grade Growers, LLC*, 125 USPQ2d 1950, 1959 (TTAB 2018) (holding MECHANICALLY FLOOR-MALTED generic for malt used for brewing and distilling and for processing agricultural grain); TMEP §1209.01(c)(ii).  In applicant's wording, "SMART" acts as a generic adjective.

Consumers would identify the genus of goods via the mark as keyboards featuring connective technology, irrespective of whether the physical keyboard is embedded in a device cover.  The evidence made of record by the examining attorney over the lifespan of this case show that the term "smart keyboard" has been used in a general manner to describe a variety of different keyboards featuring different types of technology and/or integrated software.  Much of this evidence ***<u>pre-dates</u>*** the 2015 release of applicant's first generation 12.9 inch iPad Pro, for which the original "SMART KEYBOARD" was made.  (*See*: https://en.wikipedia.org/wiki/IPad_Pro#Smart_Keyboard).  The evidence clearly shows that the term "smart keyboard" was a common name for a technologically advanced keyboard prior to the release applicant's products and, as particularly shown by the evidence above, that it is also used to categorize keyboards from different manufacturers which are compatible with applicant's iPad Pro.

Applicant sets forth the main premise of its argument against genericness with a misstatement of the examining attorney's position.   The examining attorney is not arguing that any use of the term "SMART" as being generic.   However, the evidence in this case shows that the term "SMART" when paired with the generic name for a specific computer peripheral would not be recognized as a mark, previously supplied examples of this being "smart mouse," "smart rings," "smart speakers,"     and "smart headsets."   The analogy drawn by the examining attorney is that the term "SMART" is generic in the context of computers, peripherals and associated technology, (as demonstrated by the dictionary and marketplace evidence), when simply combined with the generic term "KEYBOARD" adds no new significance to the overall combination that would alter its generic nature.  *See In re Virtual Independent Paralegals, LLC*, 2019 USPQ2d 11512 (TTAB 2019).


*Applicant's Other "SMART" Marks*


Delving more closely into applicant's arguments, applicant firstly contends that "SMART KEYBOARD" cannot be generic as the USPTO has registered "SMART COVER," "SMART CASE," and "SMART CONNECTOR."     This is not persuasive as it is well settled that each case must be decided on its own facts and the Trademark Trial and Appeal Board is not bound by prior decisions involving different records.  *See In re Nett Designs, Inc.*, 236 F. 3d 1339, 1342, 57 USPQ2d 1564, 1566 (Fed. Cir. 2001); *In re Datapipe, Inc.*, 111 USPQ2d 1330, 1336 (TTAB 2014); TMEP §1209.03(a).  The question of whether a mark is merely descriptive, (and/or generic), is determined based on the evidence of record at the time each registration is sought.  *In re theDot Commc'ns Network LLC* , 101 USPQ2d 1062, 1064 (TTAB 2011); TMEP §1209.03(a); *see In re Nett Designs, Inc.*, 236 F.3d at 1342, 57 USPQ2d at 1566.  Applicant's referenced marks are different in what the adjective "SMART" is modifying and the goods underlying these marks differ from those of the goods at issue in this case.


Applicant contends that "SMART" is disclaimed less than 20% of the time in Class 9 and applicant has attached a screen capture of its TESS search results page in support, (*see* Resp. of April 2, 2019, Ex. A). This evidence is of little, if any probative value.  The TESS evidence provides no indication of what marks applicant is referencing and it cannot be discerned what the underlying goods are for the 646 "SMART"-disclaimed marks.  The evidence likewise doesn't indicate which of the 646 marks with "SMART"-disclaimed might be on the Supplemental Register.    In sum, applicant's Exhibit A attempts to paint an overly broad and simplistic assumption that the TESS database shows that "SMART" is usually a non-generic term, even though there are 646 potential hits in Class 9 where it could be generic in theory.  Based on the amount of speculation surrounding Exhibit A, the argument is not persuasive.


*Competency of the Examining Attorney's Evidence*


Applicant next attacks the examining attorney's evidence in this matter as being from sources that are technical, obscure, dead-linked evidence and are otherwise not reflective of how consumers would view "SMART KEYBOARD."   Applicant makes the overly simplistic and sweeping assertion that only it uses "SMART KEYBOARD" and that its evidence shows market saturation of the wording.   At the outset, applicant's market saturation does not alter the generic meaning of "SMART KEYBOARD" as perceived by the marketplace.   The fact that an applicant may be the first or only user of a generic designation is not dispositive on the issue of genericness where, as here, the evidence shows that the word or term is generic.  *See In re Empire Tech. Dev. LLC*, 123 USPQ2d 1544, 1549 (TTAB 2017) (quoting *In re Greenliant Sys. Ltd.*, 97 USPQ2d 1078, 1083 (TTAB 2010)); TMEP §1209.03(c).


Apple argues that the examining attorney improperly contends that "SMART KEYBOARD" is/was generic from the outset.   This is also a misstatement.  The examining attorney throughout this prosecution has supplied dozens and dozens of examples from the marketplace showing that consumers would perceive "SMART KEYBOARD" not as a source identifier, but rather as a common name for technologically beefed up computer keyboards.  As stated by the examining attorney in earlier Office actions, applicant cannot pluck a generic term from the marketplace, saturate the market with its products using the generic term, and then claim that the market saturation shows that the generic term is ***no longer*** a generic term.  *See In re Log Cabin Homes*, 52 USPQ2d 1206 (TTAB 1999); *In re Tibbals Flooring Co*., 135 USPQ 374 (TTAB 1962); *see also* 2 McCarthy on Trademarks and Unfair Competition §12:11 (5th Ed. 2018).


Applicant next dives into its own evidence of such market saturation.  To be clear, applicant has amended the application to the Supplemental Register in response to the earlier alternative Section 2(e)(1) mere descriptiveness refusal.  This was done after the examining attorney rejected applicant's Section 2(f) claim of acquired distinctiveness.  Applicant is attempting to repackage its rejected acquired distinctiveness evidence as a reason that "SMART KEYBOARD" is not a generic term.   The examining attorney contends that because the cumulative evidence of record shows that "SMART KEYBOARD" is a generic term, applicant's rehashing of its Section 2(f) evidence is not probative.   The examining attorney points out that the Section 2(f) evidence, summarized by applicant here, never directly connected consumer recognition with "SMART KEYBOARD".  Applicant's success with its iPad is not relevant because that is a different mark and product than what is at issue here.  The evidence also suffered from an overall lack of connection as to consumer recognition.  Again, a generic term for the goods is not transformed into a source indicator just because someone attempts to use it in trademark-fashion.


The evidence made of record in this case by the examining attorney is attacked as being not creditable or authoritative as it comes from

"obscure" sources "that no one ever visits." Applicant's argument is overly simplistic and conclusory in nature. Applicant argues that three websites referenced by the examining attorney are foreign in nature. Firstly, the evidence is not devoid of value as the Firstpost, Wccftech and Twice websites are in English and are accessible to U.S. consumers.

English language material obtained from foreign websites or foreign news publications has been accepted as competent evidence in trademark examination when it is likely that U.S. consumers have been exposed to the website or news publication. *See In re Bayer AG*, 488 F.3d 960, 969, 82 USPQ2d 1828, 1835 (Fed. Cir. 2007) (finding foreign website or foreign news publication evidence carries some probative value as to prospective consumer perception in the United States because of the "growing availability and use of the internet as a resource for news, medical research results, and general medical information"); *In re Well Living Lab Inc.*, 122 USPQ2d 1777, 1781 n.10 (TTAB 2017) (finding foreign website evidence relevant because potential consumers would likely encounter those English language websites when searching for companies offering services similar to applicant); *In re Nieves & Nieves LLC*, 113 USPQ2d 1639, 1642 (TTAB 2015) (finding foreign website evidence relevant because the goods in the application involve the identity of a celebrity who lives and travels outside of the United States); *In re IBM Corp.*, 81 USPQ2d 1677, 1681 n.7 (TTAB 2006) (finding foreign website evidence probative for computer hardware because professionals in highly technical fields such as medicine, engineering, computers, and telecommunications are likely to utilize all available resources, regardless of country of origin or medium); TBMP §§1208.01, 1208.03; TMEP §710.01(b).

It is likely that consumers in the U.S. would encounter these articles if searching for information about applicant's products, which are sold globally. Secondly, the wccftech.com website attacked by applicant is actually a global publication with reporters stationed in the United States. (*See*: https://wccftech.com/about/). Further, the Pulse article is a news story about a computer researcher in Georgia developing a "smart keyboard". Applicant is therefore, not fully correct that the evidence should be excluded from consideration as it bears on and is accessible from the United States.

Likewise, applicant's conclusion as to the obscurity of the evidence, is just that, a conclusion. Applicant attacks blogger evidence from DZone and other sources as not being "mainstream" and not visited by Apple customers, even though software developers are within the class of relevant consumers of applicant's product as defined by the identification of goods. Such user forum evidence actually reflects how those in the consuming class talk and name different goods. Evidence from blogger forums is absolutely probative and offers a window as to how the wording is perceived and used by those who are in the relevant consuming class.

Applicant provides no evidence to back up its statement that the evidence in this matter is of little or improper weight based on authoritativeness and credibility. Rather applicant regurgitates case law concerning "occasional misuse" of the mark within the relevant consumer class in order to downplay the examining attorney's dozens of evidentiary examples. Websites and webpages, dictionaries, newspaper articles and publications are generally a competent source for determining how the public perceives the mark in connection with applicant's goods. *See In re N.C. Lottery*, 866 F.3d 1363, 1367-68, 123 USPQ2d 1707, 1709-10 (Fed. Cir. 2017); *In re Nett Designs, Inc.*, 236 F.3d 1339, 1341, 57 USPQ2d 1564, 1566 (Fed. Cir. 2001) (citing *In re Bed & Breakfast Registry*, 791 F.2d 157, 160, 229 USPQ 818, 819 (Fed. Cir. 1986)); TMEP §1209.01(b). Applicant even agrees with the examining attorney that evidence aside from big chain retail store evidence, (tendered by applicant), is not the sole measure of evidentiary competency.

The LEXISNEXIS® extracted newspaper articles, to start, that were attached to the Office action of June 28, 2017 are taken from sources such as the Los Angeles Times, The New York Times, and The Chicago Business Journal, which are not exactly small and obscure publications with little readership, and all offer online and print editions. The evidence in this case has also been taken from high traffic retailers such as Amazon, and popular computer product review publications such as PC Magazine, CNet, and Macworld. Applicant's repeated statements throughout this prosecution that the marketplace evidence is obscure is conclusory and rooted in applicant's own opinions, which would seem to suggest that no evidentiary source meets the competency requirement. Rather the cumulative evidence from the marketplace shows that "SMART KEYBOARD" has been used as a common name for a broad category of keyboards that incorporate a technologically advanced feature(s).

*The Examining Attorney's Patent Evidence*

Applicant also argues that the utility patent/published patent application evidence made of record by the examining attorney is also not competent on the question of genericness. Applicant again attempts to posit that the presence of "SMART KEYBOARD" in the specifications of fifteen patents and published patent applications, (substantially more than "several" as described by applicant), are simply sporadic regurgitations of "SMART KEYBOARD." The argument is not persuasive.

Section 112 of the Patent Act requires that a patent specification "contain a written description of the invention, and of the manner and process of making and using it, *in such full, clear, concise, and exact terms* as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and *use* the same." *See* 35 USC §112(a) (emphasis added). The specification must employ the commonly understood names of the invention and/or its elements unless otherwise defined in the specification as patent applicants may act as their own lexicographer. *See* Manual of Patent Examining Procedure (MPEP) §2173.05(a).

Additionally, the use of a mark in a patent application is generally discouraged but can be allowed in a patent if:

- (A) its meaning is established by an accompanying definition in the specification which is sufficiently descriptive, enabling, precise and definite such that a claim including the mark or trade name complies with the requirements of 35 U.S.C. §112, or
- (B) its meaning is well-known to one skilled in the relevant art and is satisfactorily defined in the literature.

*See, e.g.*, *United States Gypsum Co. v. National Gypsum Co.,* 74 F3d 1209, ____ n.6, 37 USPQ2d 1388, 1392 n. 6 (Fed. Cir. 1996); §MPEP 608.01(v).

In other words, if the mark itself is a common name, resulting in its being definite for purposes of Section 112, then it is permissible to be present in the patent specification and not capitalized. *Id.*

The cumulative patent evidence made of record shows extensive presence of "smart keyboard" as a term that is commonly understood within the consuming public. It shows that "smart keyboard," as a whole, is understood to be a common name for what constitutes a broad range of technologically advanced keyboards. Further, none of the patentees and patent applicants referenced by the examining attorney acted as their own lexicographer to re-define "smart keyboard" in the specifications, further indicating that "smart keyboard" is a generally understood term. Lastly, as to the patent evidence, many of the referenced patents and published patent applications ***pre-date*** applicant's introduction of its goods into the market.

*Relation of the Evidence to Applicant's Product Release Date*

With respect to the temporal aspects of the evidence raised by applicant, the examining attorney contends that the evidence in support of genericness of "SMART KEYBOARD" reflects that the term was understood in the marketplace before applicant began using "SMART KEYBOARD" in the market in the fall/winter of 2015. ***This is further reflected in the November dates of use and use-in-commerce as set forth by applicant***. Again, much of the patent evidence pre-dates this marketplace release date. Much of the evidence from the marketplace shows use of the mark as a common name for technologically advanced keyboards in the several years prior to the fall 2015 release date of the first generation of applicant's products. The evidence also shows a continuing use of "SMART KEYBOARD" in the marketplace by publications and competitors who make keyboards that are compatible with applicant's iPad Pro product. In this emerging market of "smart" peripherals, the term has been recognized from a period of years prior to the fall of 2015 and continues to be ongoing. That "SMART KEYBOARD" is used by other keyboard makers and is consistently used by publications to show a category of keyboards that can be used with applicant's iPad product further reinforces the impression on the purchasing public that this is indeed the common name for the genus of keyboards and that others in the marketplace need to be able to use such names to describe their goods. *See In re Trek 2000 Intl Ltd*., 97 USPQ2d 1106, 1109 (TTAB 2010).

Applicant references as an analogy the Federal Circuit's decision in *In re Merrill Lynch, Pierce, Fenner and Smith, Inc*., 828 F.2d 1567, 4 USPQ2d 1141 (Fed. Cir. 1987), in support of its contention that "SMART KEYBOARD" does not identify a genus. What is particularly interesting about *Merrill Lynch* was the focus placed by the court on the use of Merrill Lynch's mark "CASH MANAGEMENT ACCOUNT" in the marketplace prior to the introduction of the services to consumers and this is where the case actually runs counter to applicant's contention on this record. The court concluded in *Merrill Lynch* that the USPTO's evidence was essentially devoid of usage of "CASH MANAGEMENT ACCOUNT" prior to the launch of the service offerings and in this vein, the only usage of the mark was by Merrill Lynch. *Id* at 1143.

While applicant's online market saturation on search engines of "SMART KEYBOARD" may be similar to Merrill Lynch's market saturation campaign in the early 1980's, this is where the similarities end. Unlike the record in *Merrill Lynch*, here, there is ample evidence showing usage of "SMART KEYBOARD" for technologically advanced keyboards prior to the introduction of applicant's product, and ongoing today among manufacturers who produce alternative iPad compatible keyboards.

*The Nature of Applicant's Goods*

Applicant further argues that "SMART KEYBOARD" is not generic because it is not trying to register the wording for a keyboard, but rather for a tablet cover that features an embedded keyboard. The argument is not persuasive and is essentially a distinction without a difference. The examining attorney maintains that the evidence shows that "SMART KEYBOARD" describes a genus of goods, of which applicant's products are but one species. The primary characteristic of applicant's goods is an integrated keyboard, otherwise applicant would be left with just its "SMART COVER." The keyboard, again features computer technology. The genus, as the evidence shows, contains other keyboards that

contain other types of software and connective technology.

Applicant again cites *In re Merrill Lynch,* as an analogy where the mark "CASH MANAGEMENT ACCOUNT" was held not generic as the term was found not have been used with its services for stock brokerage, money market fund administration and loan provision. *Id* at 4 USPQ2d 1143. Unlike the situation in *Merrill Lynch*, applicant's goods, actually feature a keyboard as a key component, ( *i.e.* the reason why a putative Apple consumer would purchase the goods in the first place in order to impart keyboard functionality on an iPad), and that the product as a whole, where the keyboard is the primary component, features connective technology that allows it to function with applicant's iPad, rendering it "SMART" within the accepted meaning of the term of the genus.

Applicant also cites the Board's non-precedential decision in  *In re The Country Vintner*, Serial No.: 85567206, (TTAB 2014). The Trademark Trial and Appeal Board has stated that decisions designated as not precedential are not binding upon the Board but may be cited for whatever persuasive value they might have.  TBMP §101.03; TMEP §705.05.  This matter is also distinguishable as the evidence in that case showed that the USPTO's evidence did not show use of the mark within the relevant and more-narrow consuming class for wholesalers.  *Id.* at 12.

The identification of goods in ***this*** case adequately defines the genus and does not include language that distinctly limits the relevant consumers. The relevant class of consumers for applicant's goods comprise all persons, sophisticated and otherwise.   Unlike, *The Country Vintner*, applicant's identification is not limited to only wholesale or retail or any other specific group.   Therefore, this case is of little persuasive value.

_Applicant Not Knowing Which Evidence Relates to the Refusal_

Lastly, applicant has posited that the evidence and the examining attorney's case is defective because applicant does not understand which pieces of evidence in the record relate to the genericness refusal and therefore, cannot mount a rebuttal.  In nearly four years of prosecution of this matter, applicant has made attempts to discredit the examining attorney's evidence and in response, the examining attorney has continued to build the evidentiary record.  Applicant has made attempts to attack the patent evidence made of record, whether certain pieces of internet evidence were still live, whether certain pieces of evidence were or were not foreign sources, etc.  In every action issued by the Office, the examining attorney has made it amply clear, that the evidence in each prior Office action was incorporated by reference and in the previous, and in this final action, the examining attorney is again informing applicant that the ***cumulative*** evidence of record, *i.e.* the dictionary definition evidence, the patent evidence, the LEXISNEXIS® evidence, the internet based news article evidence geared toward the computer world and computer purchasers, and competitor sources, all form the basis of this Section 23(c) refusal. The record reflects the back and forth between applicant and the examining attorney over what this evidence shows and the difference in their positions.

Applicant cannot credibly contend at this late stage, that it suddenly cannot discern which evidence is relevant to the refusal and additionally, applicant points to no legal authority that says evidence put forth in a Section 2(e)(1) mere descriptiveness refusal cannot be used in later support of a genericness refusal in the same case.  The issuance of the genericness refusal does not cut off the probative value and competence of the earlier evidence.  Applicant's argument makes little sense as well from the perspective that the Board may take judicial notice of dictionary definitions of the terms in this case *See In re Jimmy Moore LLC*, 119 USPQ2d 1764, 1768 (TTAB 2016); TBMP §1208.04; TMEP §710.01(c); *see also* Fed. R. Evid. 201; 37 C.F.R. §2.122(a).  Such dictionary definitions were made of record prior to the issuance of the genericness refusal and likewise incorporated by reference into the later-issued Office actions.  Based on the extensive arguments and record, applicant's contention on this point is not persuasive and serves more to deflect from the central questions in this case.

Applicant's arguments and evidence have been duly considered throughout this prosecution.   The examining attorney contends that the ***cumulative*** evidence shows genericness of the term "SMART KEYBOARD" in the marketplace prior to as well as after the release of applicant's products and therefore, the refusal to allow registration of "SMART KEYBOARD" on the Supplemental Register under Section 23(c) of the Trademark Act is hereby made *FINAL.*

_RESPONSE GUIDELINES_

Applicant must respond within six months of the date of issuance of this final Office action or the application will be abandoned. 15 U.S.C. §1062(b); 37 C.F.R. §2.65(a).  Applicant may respond by providing one or both of the following:

(1)      a response filed using the Trademark Electronic Application System (TEAS) that fully satisfies all outstanding requirements and/or resolves all outstanding refusals; and/or

(2)      an appeal to the Trademark Trial and Appeal Board, ***if not already filed***, filed using the Electronic System for Trademark Trials

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and Appeals (ESTTA) with the required filing fee of $200 per class.

37 C.F.R. §2.63(b)(1)-(2); TMEP §714.04; *see* 37 C.F.R. §2.6(a)(18); TBMP ch. 1200.

In certain rare circumstances, an applicant may respond by filing a petition to the Director pursuant to 37 C.F.R. §2.63(b)(2) to review procedural issues.  TMEP §714.04; *see* 37 C.F.R. §2.146(b); TBMP §1201.05; TMEP §1704 (explaining petitionable matters).  There is a fee required for filing a petition.  37 C.F.R. §2.6(a)(15).

Applicant filed a notice of appeal on May 16, 2017, after which the matter was remanded to the examining attorney.  Upon the expiration of the period for response, the Board will be notified to resume the appeal.  *See* TMEP §715.04(b).  *See also* TBMP §1202.02 and §1207.04.

**TEAS PLUS OR TEAS REDUCED FEE (TEAS RF) APPLICANTS – TO MAINTAIN LOWER FEE, ADDITIONAL REQUIREMENTS MUST BE MET, INCLUDING SUBMITTING DOCUMENTS ONLINE:**  Applicants who filed their application online using the lower-fee TEAS Plus or TEAS RF application form must (1) file certain documents online using TEAS, including responses to Office actions (see TMEP §§819.02(b), 820.02(b) for a complete list of these documents); (2) maintain a valid e-mail correspondence address; and (3) agree to receive correspondence from the USPTO by e-mail throughout the prosecution of the application.  *See* 37 C.F.R. §§2.22(b), 2.23(b); TMEP §§819, 820.  TEAS Plus or TEAS RF applicants who do not meet these requirements must submit an additional processing fee of $125 per class of goods and/or services.  37 C.F.R. §§2.6(a)(1)(v), 2.22(c), 2.23(c); TMEP §§819.04, 820.04.  However, in certain situations, TEAS Plus or TEAS RF applicants may respond to an Office action by authorizing an examiner's amendment by telephone or e-mail without incurring this additional fee.

/Robert Andrew Cohen/

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**TO RESPOND TO THIS LETTER:**  Go to http://www.uspto.gov/trademarks/teas/response_forms.jsp.  Please wait 48-72 hours from the issue/mailing date before using the Trademark Electronic Application System (TEAS), to allow for necessary system updates of the application.  For *technical* assistance with online forms, e-mail TEAS@uspto.gov.  For questions about the Office action itself, please contact the assigned trademark examining attorney.  **E-mail communications will not be accepted as responses to Office actions; therefore, do not respond to this Office action by e-mail.**

**All informal e-mail communications relevant to this application will be placed in the official application record.**

**WHO MUST SIGN THE RESPONSE:**  It must be personally signed by an individual applicant or someone with legal authority to bind an applicant (i.e., a corporate officer, a general partner, all joint applicants).  If an applicant is represented by an attorney, the attorney must sign the response.

**PERIODICALLY CHECK THE STATUS OF THE APPLICATION:**  To ensure that applicant does not miss crucial deadlines or official notices, check the status of the application every three to four months using the Trademark Status and Document Retrieval (TSDR) system at http://tsdr.uspto.gov/.  Please keep a copy of the TSDR status screen.  If the status shows no change for more than six months, contact the Trademark Assistance Center by e-mail at TrademarkAssistanceCenter@uspto.gov or call 1-800-786-9199.  For more information on checking status, see http://www.uspto.gov/trademarks/process/status/.

**TO UPDATE CORRESPONDENCE/E-MAIL ADDRESS:**  Use the TEAS form at http://www.uspto.gov/trademarks/teas/correspondence.jsp.

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**Date and Time:** Thursday, May 9, 2019 5:48:00 PM EDT

*Tanisys signings hint at sales rise*

Austin American-Statesman (Texas)

October 04, 1994 TUESDAY

**Body**

A series of agreements with retail chains and other high-tech players indicates Tanisys Technology could be ready for a spurt of rapid sales growth and far greater recognition within the personal computer industry.

Tanisys, which develops hardware and software that make PCs easier to use, has struck agreements with several computer retail chains to carry its first software product, a Windows ease-of-use utility called SpinWizard.

The 3-year-old company says it also is nearing agreements with makers of computer keyboards and joysticks to use Tanisys technology to "smarten" their products. "We are transitioning from being a development company to being a full-blown company," said president Mark Holliday, who joined Tanisys lastspring.

The 15-employee company will report sales of less than $100,000 for the fiscal year that ended Friday. But sales could grow quickly depending on the success of SpinWizard, which lets users customize how they work with Microsoft's Windows software. SpinWizard allows users to control how "icons" representing different programs and functions are placed. It also enables them to shift more easily among programs and to create built-in shortcuts called "macros,"which accomplish several steps with one click of the mouse.

The software, which costs $49.95, is aimed at 25 million Windows users.Heavy computer users are expected to be among the first customers, said Holliday, a former executive for BMC Software Inc. which primarily makes software for mainframes. Lisa Holzer, staff editor for PC Magazine, said SpinWizard offers some of the same step-saving features promised by Microsoft for its Windows 95 operating system, which is expected to be available for sale by the middle of next year.

"There's a whole lot of power sitting on everybody's desktop," said Holliday. "The technology we're driving will allow more people to utilize that power more effectively."

CompUSA, a major chain of computer superstores, began selling the software this month. The chain also plans to bundle SpinWizard software with its "house brand" Compudyne personal computers. Although Tanisys has yet to receive sales figures from CompUSA, a spot check at several stores indicates the software is selling well, Holliday said. Some sold as many as 15 copies the first day it was in the store. London Drugs Ltd., a big Canadian retailer, and Babbage's, a major

software chain, also have agreed to sell SpinWizard. More retail alliances are in the works.

In addition, Tanisys last week announced a one-year marketing and distribution agreement for SpinWizard with Q&A Sales and Marketing, an Irvine, Calif., manufacturers' representative. Q&A President Gary Wolfe said Tanisys succeeded in creating software that is very easy to use and also saves lots of steps when working with Windows programs - suggesting that it will appeal both to novices and to heavy PC users.

Wolfe said he arranged for SpinWizard tryouts both with his mother, anovice PC user, and with a power user he knows. Both liked it. Wolfe expects the product to be in all the major retail chain stores by the end of this month. "The preliminary data is very, very strong, especially for an unknown title," Wolfe said. "If this keeps up, they are going to have a home run."

In addition to SpinWizard, Tanisys officials say the company is close to completing agreements with makers of computer keyboards and joysticks.  A big keyboard-maker is expected this fall to demonstrate a "***smart***" ***keyboard*** with special Windows commands built into little-used function

 keys, said Ben Marz, the company's vice president of sales. Tanisys makes the software behind those functions and allows users to see a key's function on the computer screen by partially depressing the key.

Among the company's other technologies are a chip that can be used to control programmable joysticks for computer games and a small security device that Tanisys officials say could reduce software piracy.  The company's business momentum picked up after the Spring Comdex trade show in Atlanta, where it showed off its technologies to hardware and software manufacturers and retailers and solicited suggestions.

Companies it met with Atlanta are now becoming customers.  Tanisys raised $1.5 million in a private stock placement with a dozen investors completed in July. The funds will be spent on product development, advertising, and development of business alliances with other PC-related companies.

The company, which has about 250 investors, has traded at slightly above $4 a share recently on the Vancouver Stock Exchange. If it grows as management projects, Tanisys probably will apply for listing on Nasdaq.

Founded in Vancouver, Canada, the company moved to Austin early this year with the encouragement of investors who considered this area a better setting for a growing PC-related company. Tanisys is the company's third name. It started business as Timespan Inc., before changing its name to Rosetta Technologies in 1993. The company had to drop the Rosetta name because of a conflict with a similarly named company.

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(12) **United States Patent** (10) **Patent No.:** **US 9,152,184 B2**
Moser (45) **Date of Patent:** **Oct. 6, 2015**

(54) **HYBRID COMPUTER**

(71) Applicant: **George Moser**, Redwood City, CA (US)

(72) Inventor: **George Moser**, Redwood City, CA (US)

( * ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 184 days.

(21) Appl. No.: **14/061,718**

(22) Filed: **Oct. 23, 2013**

(65) **Prior Publication Data**

US 2014-0139090 A1 May 22, 2014

**Related U.S. Application Data**

(60) Provisional application No. 61/726,752, filed on Nov. 15, 2012.

(51) **Int. Cl.**
*G06F 1/16* (2006.01)

(52) **U.S. Cl.**
CPC ............ *G06F 1/1681* (2013.01); *G06F 1/1616* (2013.01); *G06F 1/1654* (2013.01)

(58) **Field of Classification Search**
CPC ............... G06F 1/16; G06F 1/1616
USPC ....................................... 361/679.55
See application file for complete search history.

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*Primary Examiner* — Forrest M Phillips
(74) *Attorney, Agent, or Firm* — Brad Bertoglio

(57) **ABSTRACT**

A hybrid computer system is provided. The hybrid computer includes a display portion attached to a base portion via hinge. The display portion can be folded flat against the base portion such that the display screen faces outwards, for use in a tablet computer configuration. The display portion can alternatively be tilted upwards relative to the base portion, with the display portion being hinged at a front edge of the display, and in a middle section of the base portion. When the display is articulated upwards, a support structure can be deployed between the backside of the display and the base portion, in order to provide physical support to the display and resistance against hinge movement in response to a user pressing on the display to engage touchscreen functionality.

**6 Claims, 18 Drawing Sheets**

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Fig. 3

Fig. 5

Fig. 4

Fig. 8A

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# HYBRID COMPUTER

## BACKGROUND OF THE INVENTION

The present invention relates in general to the computer field, and in particular to a new category of portable computer that combines the advantages of a laptop computer and a tablet.

Tablet computers have grown in popularity because of their portability and ease of touchscreen input. However, some shortcomings and obstacles remain which limit the practical application of a tablet to only some applications such as checking email or playing simple games. More elaborate applications still require a real computer, such as a laptop computer. There are several reasons for that limitation, such as a) the lack of a keyboard for faster, more reliable and more convenient input than a touchscreen, b) generally tablets are underpowered for real computer work which usually requires more storage capacity, more memory, more peripheral devices, faster processors, more battery capacity and generally more computer resources than current tablets normally provide.

As shown in FIG. 1, a typical prior art tablet computer 10 includes a computer housing 11 and a touchscreen 12 which is used for visual out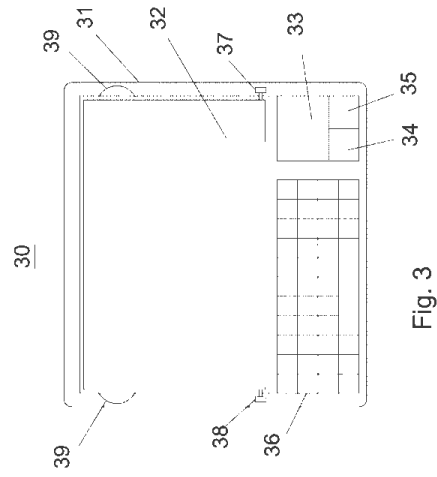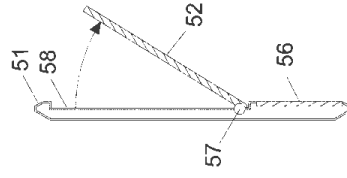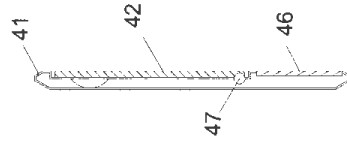put as well as for user input. Inside the housing 11 and underneath the touchscreen panel 12 there are the internal components of the tablet computer (not shown in FIG. 1), such as the motherboard, the data storage device, the battery and others.

FIG. 2 shows a cross-section of the tablet computer.

FIG. 2A shows a typical state of the art laptop computer with a base 212 and a display 213. This type of computers typically provides enough power for real computer work, but until now they generally lack the user-friendliness of a laptop computer. Some attempts have been made to equip this type of laptops with a touchscreen to provide tablet-like user-friendliness, but some obstacles have been encountered which have prevented the adoption by the users. One of those obstacles has been the fact that when a laptop as the one in FIG. 2A is equipped with a touchscreen as part of its display unit 213, said display unit tends to move and oscillate when the user touches the touchscreen to enter some input, which is uncomfortable because the image is moving and vibrating in front of the user. Even with a stronger and tighter hinge it is difficult to avoid this problem because of the distance between the hinge and the points of touch. A moving, slightly oscillating display can make a user dizzy or frustrated, making touchscreen usage impractical for such type of computer.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top plan view of a prior art tablet computer.

FIG. 2 is a cutaway side view of the prior art tablet computer.

FIG. 2A is a perspective view of a prior art laptop computer.

FIG. 3 is a top plan view of a hybrid computer, according to a first embodiment.

FIG. 4 is a cross-section of the embodiment of FIG. 3.

FIG. 5 is a cross-section of the embodiment of FIG. 3, with the display articulated into an angled position.

FIG. 6 is a perspective view of the embodiment of FIG. 3 in portrait orientation.

FIG. 7 is a perspective view of the embodiment of FIG. 3 in a landscape orientation.

FIG. 8 is a side view cross-section of a hybrid computer with articulated display.

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FIG. 8A is a side view cross-section of a hybrid computer with articulated display and display support member.

FIG. 9 is a top plan view of a hybrid computer according to another embodiment.

FIG. 10 is a top plan view of a hybrid computer embodiment having a compact keyboard.

FIG. 11 is a top plan view of a hybrid computer embodiment without keyboard.

FIG. 12 is a side view cross section of the embodiment of FIG. 11.

FIG. 13 is a side view cross section of a further embodiment having a display unit that is separable from a base unit.

FIG. 14 is a side view of a prior art laptop computer in a space-constrained environment.

FIG. 15 is a side view of a hybrid computer in accordance with embodiments described herein, in the space-constrained environment.

FIG. 16 is a side view cross section of a further embodiment of a hybrid computer having a deployable keyboard in a stowed position.

FIG. 17 is a side view cross section of the embodiment of FIG. 16, with the keyboard in a deployed position.

FIG. 18 is a side view cross section of another embodiment of a hybrid computer having a deployable keyboard in a stowed position.

FIG. 19 is a side view cross section of the embodiment of FIG. 18, with the keyboard in a deployed position.

## DETAILED DESCRIPTION

The hybrid computer of the illustrated embodiments may provide the convenience and user-friendliness of a tablet combined with the more powerful resources and capabilities of a conventional laptop computer.

FIG. 3 shows a top view of one embodiment of the invention. The hybrid computer can also be referred to as the Laplet (laptop-tablet computer), a term that describes this new category of computer and which the inventor uses as the trademark for this product. The hybrid computer 30 consists of a housing 31, which contains the display screen 32, a keyboard 36, a touchpad 33 and buttons 34 and 35. The cavities 39 are intended to facilitate the lifting of the display by the user by inserting his fingertips into said cavities. The display screen 32 is preferably equipped with a touchscreen to enable the computer to function both as a laptop computer and as a tablet. Another possible embodiment of this invention could omit the touchpad 33, which is not essential, since the display provides touch sensing capability that can be used in lieu of a touchpad. Another possible embodiment could omit the touchscreen in order to provide a laptop-only configuration at lower cost. Another possible embodiment could include a touchscreen in a laptop-only configuration with touch capability, in order to use a touch-oriented operating system such as Windows 8 in a full-fledged laptop computer that is not intended to operate also as a tablet. Therefore concepts described herein apply not only to hybrid computers, but also to laptops and tablets.

FIG. 4 shows a cross-section of the hybrid computer of this invention. The basic components shown include the housing 41, the display screen 42 and the keyboard 46. The internal components such as the motherboard, the battery, the optical drive and other devices (not shown in FIG. 4) are located inside the housing 41 and underneath the display screen 42 and the keyboard 46.

As can be seen in FIG. 4, the display screen 42 is rotatably attached to the housing 41 through hinges 47. The display screen 42 is typically a touchscreen, and can be based on any
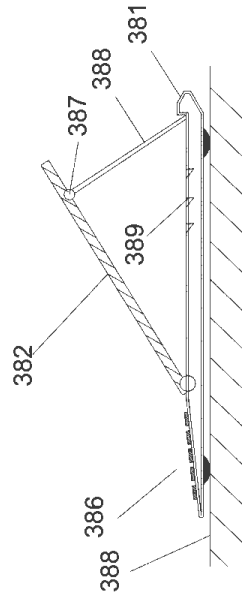
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the prior art touchscreen technologies such as capacitive, resistive, SAW, IPS or others. The display itself is typically a liquid crystal display (LCD), but it can also be an OLED display, a digital ink display or any other type of visual display.

FIG. 5 shows that the user can lift the display screen 52 to a desired optimal viewing angle by causing the display screen 52 to rotate about the hinges 57. The deployment of the display screen can be achieved in a manual or automated way. An automated deployment can be achieved using a small electric motor, a solenoid mechanism, a spring release mechanism or other methods where the user can press a button, switch or other release mechanism to cause the display to rotate into position. The stowing of the screen back into its bay 58 can also be manual or automated.

FIG. 6 shows that the user can use the hybrid computer in tablet mode by holding it in his/her arm like a typical tablet while using the other hand for input through the touchscreen 62. In tablet mode the screen has been folded down on the base by rotating down about the hinges 67 and 68. In FIG. 6 the user is using the hybrid computer in tablet mode and in portrait orientation.

In FIG. 7 the user is using the hybrid computer in tablet mode and in landscape orientation. This orientation has the advantage that the user can use the keyboard 76 for input, in addition to the touchscreen 72.

FIG. 8 shows a cross-section of hybrid computer 80 being used in laptop mode, i.e. with the computer housing 81 resting on a surface 88. The surface 88 can be the lap of the user or the surface of a desk or table. In this mode the hybrid computer can be used like a regular full-fledged laptop computer for jobs of any level of complexity (not just for very simple applications like a tablet).

FIG. 8A illustrates another embodiment. The embodiment of FIG. 8A includes features which may address oscillation issues arising during use of computing device with touchscreen, particularly with a hinged display such as typical laptop computers. The display 382 is equipped with a support 388, which pivots around the pivot 387 and rests on the base 381 to firmly support the display 382. Support 388 can act to prevent movement and oscillation when a user touches the touchscreen display 382. As illustrated, support 388 rests against a rear edge of base 381 in order to support and stabilize display 382. Optionally, base 381 may include indentations or grooves 389 or similar features which physically engage with support 388 at one or more alternative positions to restrain support 388 from movement in response to the application of pressure to touchscreen 382. While the embodiment of FIG. 8A provides grooves 389 to restrain movement of support 388 and prevent support 388 from sliding along the length of base 381, it is expressly contemplated and understood that alternative means of restricting the movement of support 388 relative to base and 381 could readily be implemented. For example, magnets can be provided under the surface of the base 381 or inside the support 388, which interact with other magnets or ferromagnetic counterparts to maintain the support at a selected one of one or more positions. Furthermore, in embodiment illustrated in FIG. 8A, support 388 is rotatably attached to display 382 via hinge structure 387, however, it is understood that in other embodiments, support 388 can be articulated at a pivot point on the base 381 (instead of the display 382), in which case the support may engage with grooves, slots, magnets or other movement-constraining structures within the display.

An additional advantage of certain embodiments described herein is that because of the display support, it may be possible to use simple non-frictional hinges for articulation of the display relative to the base, which are not only less expensive, but also much smaller and lighter, and enable further size and weight reduction in laptops, tablets and hybrid computers, which are typically important design criteria for these devices.

FIG. 9 shows a variation of the previously described embodiment of the invention wherein the touch pad and the touch buttons have been eliminated. The touch pad and the touch buttons (previously identified as items 52 through 35 in FIG. 3). The touchpad and the buttons are not essential since the touchscreen 92 can provide that functionality. Eliminating them creates more space at the bottom of the base for a large, comfortable keyboard 96. It also reduces cost of course, without reducing functionality.

FIG. 10 shows another embodiment of the invention wherein the keyboard 103 has been streamlined to provide a reduced height H, which makes it possible to use a larger screen 102. There are several ways to reduce the keyboard height H, such as reducing the number of rows and increasing the length L, or using re-assignable keys with a smart keyboard. A smart keyboard can be achieved for instance based on each key having a miniature display, possibly with e-ink technology, so that the keys can display a different label depending on user choice or context.

FIG. 11 shows another embodiment of the invention without a keyboard. All input has to rely on the touchscreen 112. The advantage of this embodiment is that it can be used like any regular tablet at any time but it can also be resting on the surface of a desk or table. Optionally this embodiment can also have a support as previously shown in FIGS. 8A and 8B.

FIG. 12 shows a cross-section of FIG. 11.

FIG. 13 shows that the display 132 can be made as a separable tablet, which can operate independently with its own motherboard, battery and other internal devices. The display tablet 132 can be plugged into the pivoting connector 132, which connects the display tablet 132 to the housing 136 both mechanically and electrically. The housing 136 can contain an additional battery 137, additional storage (hard disk or solid state disk) 138 and other components not shown in FIG. 13A, such as an optical drive, additional memory, a second motherboard, communications hardware and software and other components that can expand the basic functionality of the tablet to allow it to function as a real computer when the tablet display 132 is plugged into the housing 136.

FIGS. 14 and 15 illustrate some of the advantage of the computer of this invention in an airplane seat. FIG. 14 shows how a conventional laptop computer 140 may be difficult to open and adequately locate on an airplane table 144, because the screen 142 clashes with the back of the reclined seat 141. Therefore the user may not be able to achieve the right viewing angle for the screen. By contrast, FIG. 15 shows how the hybrid computer 150 of this invention is easy to open, even in a tight airplane seat, because the hinge is closer to the user and therefore screen 151 does not clash with the back of the front seat 152 and can be easily oriented at an optimum viewing angle.

FIG. 16 shows that the hybrid computer can be equipped with a deployable keyboard 166 (similar to a deployable CD-ROM drive). In FIG. 16 the deployable keyboard is shown in stowed position. FIG. 17 shows the keyboard in deployed position.

FIG. 18 shows a keyboard 186 attached to the bottom of the hybrid computer. FIG. 19 shows the keyboard 196 in deployed position.

The above disclosures and descriptions are not intended to limit the scope of the invention. A person skilled in the art can

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modify the above described embodiments while still remaining within the scope of the invention.

What is claimed:

1. A computer system comprising: a housing containing the computer components, wherein said housing has a front side that is near the user and a back side which is farther away from the user;

a keyboard for data input which is located near the front side of the housing;

a hinged touchscreen display that is approximately co-planar with the keyboard, with the keyboard exposed to the user, when the display is in a stowed position, and which display can be deployed at an angle with respect to the user for convenient viewing of the display; and

a set of at least one hinge that allows the display to be deployed by rotating it about an axis located closer to the front side of the housing than to the back side of the housing.

2. The computer system of claim 1 wherein the deployed display is supported by a support structure comprising at least

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one bracket, leg, plate, tab or other supporting element, in order to provide rigidity and prevent the display from moving and oscillating when touched by the user to operate the touch-screen.

3. The computer system of claim 2 wherein the support structure is normally attached to the display or to the computer base.

4. The computer system of claim 2 wherein the support structure is position-adjustable through grooves, slots, or indentations on the base or on the display.

5. The computer system of claim 2 wherein the support structure is position-adjustable through coupling of magnets or ferromagnetic elements on the base with magnets or ferromagnetic elements on the display.

6. The computer system of claim 1 wherein the computer does not utilize friction or other torque-based hinges to support the display but instead relies on non-torque hinges or low-torque hinges and a back support to support the display

* * * * *

US 20130222254A1

(19) **United States**
(12) **Patent Application Publication** (10) Pub. No.: **US 2013/0222254 A1**
Tang et al. (43) Pub. Date: **Aug. 29, 2013**

(54) **SMART KEYBOARD FOR COMPUTER AND COMPACT DEVICES**

(75) Inventors: Yu Tang, Beijing (CN); Peter G. Liu, San Diego, CA (US)

(73) Assignee: Crescendo Tech Services, San Diego, CA (US)

(21) Appl. No.: 13/440,605

(22) Filed: Apr. 5, 2012

(30) **Foreign Application Priority Data**

Feb. 29, 2012 (CN) .......................... 201210047913.X

**Publication Classification**

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G06F 3/02 (2006.01)
(52) U.S. Cl.
USPC .................................................... 345/169

(57) **ABSTRACT**

This document proposes a new type of keyboard concept, Smart Keyboard, which creates a compact keyboard that can make the overall size of the keyboard smaller. It also makes it more efficient for text input on computer or other compact electronic devices, such as notebooks, tablets or even smart phones and game devices.
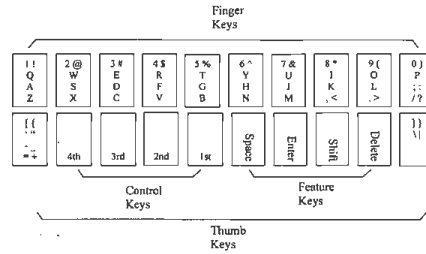
Smart Keyboard Layout Illustration
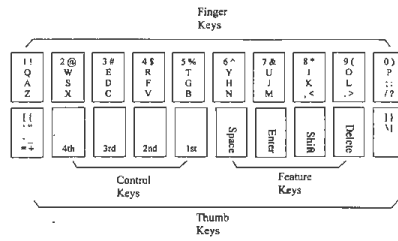
Fig. 1 Smart Keyboard Layout Illustration
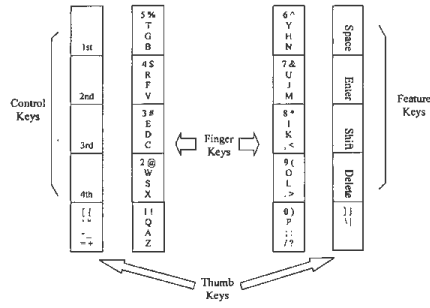
Fig. 2 Vertical Configuration of the Smart Keyboard.
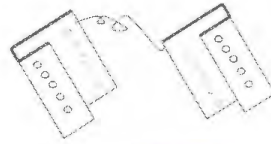
Fig. 3 Concept of Split-Smart-Keyboard

Thumb
Keys

Finger
Keys
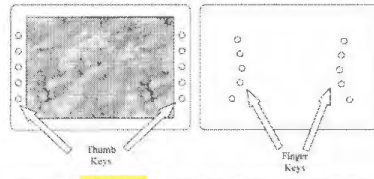
Fig. 4 Integrate Smart Keyboard on Portable Device with Ergo-Layout (Illustration Only)

# SMART KEYBOARD FOR COMPUTER AND COMPACT DEVICES

## FIELD OF THE INVENTION

[0001]   This invention relates in general to the field of electronic devices, and more specifically, to an accessory for entering text data in an electronic device such as computer, notebook, tablet and smart phone. etc.

## BACKGROUND OF THE INVENTION

[0002]   The current keyboards can be categorized in a few different types. They are:

[0003]   Full-Size Keyboard: A typewriter type of keyboard commonly used for Computers.

[0004]   Full Keyboard: Thumb-Type QWERTY Keyboard commonly used on some Smart Phone, such as Blackberry.

[0005]   Condensed Keyboard: Each physical key has two letters and depressing the key twice in rapid succession enters the second letter.

[0006]   Numeric Keypad: A standard phone keypad has alphabetic letters on the numeric keys; for example, the key "1" is also "ABC". In text mode, the appropriate letters are entered by pressing a key once or several times in rapid succession. With each key press, providing it is done quickly, the next letter in sequence becomes available.

[0007]   Virtual Keyboard: A full QWERTY keyboard is presented on a touch screen.

[0008]   The Full-Size Keyboard is big and normally suitable for office stationary usage. Other thumb-typing keyboards are not very convenient due to their small size and the need of multi-strike input and single finger operation. It limits the typing speed significantly. With the rapid growing trend of portable smart devices become more and more popular, a compact keyboard, which is fully compatible with the conventional typing skill as well as with comfortable typing space, will make the text typing more fun and efficient for portable devices, such as tablet PC, Panel PC and smart phones.

## SUMMARY OF THE INVENTION

[0009]   This invention provides a possible solution for a compact keyboard which is closely patterned to meet the conventional typing. It solves the problems associated with the Condensed Keyboard and Numeric Keypad. It will provide users with better typing experience such as, comfort size for keys, faster typing with similar conventional typing skills. The last but not the least, it makes it possible to design the keyboard in a more ecologic layout for human beings.

## BRIEF DESCRIPTION OF THE FIGURES

[0010]   FIG. 1. Illustrates a layout for the Smart Keyboard.

[0011]   FIG. 2. Illustrates the Vertical Configuration of the Smart Keyboard.

[0012]   FIG. 3. Illustrates a Concept of Split Smart Keyboard.

[0013]   FIG. 4. Integrates a concept of an Ergo-Configuration of the Smart Keyboard on a Portable Device.

## DETAILED DESCRIPTION OF THE INVENTION

[0014]   This invention proposes a new concept of keyboard layout. It defines the Finger Keys, with multiple characters, and Thumb Keys, to determine the choice of the characters.

[0015]   Here is an illustration of one of the possible implementations (see FIG. 1):

[0016]   1.  Keys are grouped into "Finger-Keys" and "Thumb-Keys".

[0017]   2.  Finger-Keys are combo keys of each column on the conventional QWERTY keyboard.

[0018]   3.  Thumb-Keys are Control Keys, Feature Keys and Miscellaneous Keys.

[0019]   The Control Keys will determine the row number of the Finger-Key strike.

[0020]   The Feature Keys are for "Space-Bar", "Enter", "Shift" and "Del".

[0021]   The Miscellaneous Keys are for special characters.

[0022]   Giving an example, when user tries to type the letter of "g", he she uses Thumb-Key to set "2nd" (2nd) Row from bottom, and then use Finger-Key to type "5", "GH" key. For capital case, use "Shift" key.

[0023]   With this Smart Keyboard design, the Full-Size Keyboard can be replaced with two rows of keys. The overall size of the keyboard will be a much smaller and compact package, while key size could be relatively longer to fit human's hands for user with comfortable typing experience.

[0024]   This Smart Keyboard can be named as "ZAQ1" (pronounced as "Zack One"), which are the letters of the first finger Key read from the bottom.

[0025]   The implementation of the Smart Keyboard could be similar to the conventional Full-size Keyboard as illustrated in FIG. 1.

[0026]   It is also possible to rearrange in different patterns. For example, the keys can be configured in vertical pattern. FIG. 2 illustrates one possible layout.

[0027]   FIG. 3 shows an implementation of the vertical configuration with Split-Smart-Keyboard.

[0028]   FIG. 4 further illustrates a possible ecologic integration of the Smart Keyboard on a portable device.

What is claimed of proprietary invention is:

1.  The Smart Keyboard composes two groups of keys, Finger Keys and Thumb Keys.

2.  The Finger Keys are combo-keys which group the conventional QWERTY keyboard in its column pattern.

3.  The Thumb Keys are those miscellaneous characters and Control Keys which will be used to determine the character to be typed.

4.  The Smart Keyboard has been named as "ZAQ1" (pronounced as "Zack One"), which is one of its Finger Keys. Other namings of the keyboard with the concept of claims 1, 2 and 3, is under the scope of this invention.

5.  Any re-arrangement of the layout of the keys with the concept of the claims 1, 2, and 3, is under the scope of this invention.

6.  Any re-assignment of the keys with the concept of the claims 1, 2 and 3, is under the scope of this invention.

7.  Any implementation of a keyboard, with the concept of the claims 1, 2 and 3, is under the scope of this invention, no matter it is a Hardware Product or a Software Solution (such as soft keyboard on a touch screen products).

*  *  *  *  *

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# Computer peripherals

### Wireless desktop freedom brings better productivity

Nordic Semiconductor was a pioneer in the adoption of wireless desktop peripherals such as keyboards and mice. With successive generations of ultra low power wireless SoCs that had high benefits/cost appeal desktops and work spaces became freed up from the limitations of wired input devices. Both proprietary and Bluetooth Low Energy products occupy this market space offering as they do different advantages dependent upon requirements. Nordic multiprotocol SoCs can support both these technologies in a single device with the same outstanding performance and energy efficiency customers have come to expect.

## Key application requirements

Best-in-class energy efficiency | Powerful CPU with sufficient memory | Simple touch-to-pair with NFC | Trusted security | Updatable all-flash-based SoCs | Interoperability | USB for data transfer and charging

Authentication | Drawing tablets | Mouse I Keyboard | Smart pen

## Drawing tablets

Wireless drawing tablets play an essential role for creative developers in the fields of engineering design and CAD, architecture and graphic design to name but a few. With the capabilities of advanced, flexible connectivity devices such as

### Suitable device

the nRF52 Series SoCs wireless drawing tablets today can support a multitude of designer settings such as pen pressure sensitivity, brush effects and aspects of sweep etc. Wireless tablets have brought great benefits and freedom to the creative design process.

nRF52810

nRF52832

nRF52840
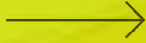
## Mouse

The wireless mouse is an everyday product these days. They reduce desk clutter and with so many people on the move as they work they make life easier. Using a wireless Bluetooth LE mouse also means freeing up a USB port, which can be critical on a modern laptop. Nordic pioneered the adoption of 2.4 GHz usage for the desktop mouse and the performance and long battery lifetimes that could be achieved. This continues with Bluetooth LE and the modern SoCs featuring a wealth of peripherals enabling single chip designs for today's modern high specification mice, including the very low latency demands of gaming mice.

Suitable device

nRF52810

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## Keyboard

In much the same time frame as the wireless mouse the wireless keyboard has become a desktop staple. Single chip

Suitable device

wireless keyboard has become a desktop staple. Single chip keyboard designs that support both Bluetooth LE and 2.4 GHz proprietary are realizable with the nRF52 Series SoCs. They bring numerous benefits from freeing up scarce USB ports to spatial freedom of usage in conference rooms, industry and at home. Wireless keyboards have simply made using computers less hassle.

→

nRF52810

nRF52832

nRF52840

## Smart pen

The smart pen is a newer member of the desktop peripheral contingent. Increasingly popular for improving productive workflows with apps for creatives and non-creatives alike. Smart pens are used with tablets and drawing tablets. They take advantage of much the same performance, flexibility and energy efficiency characteristics as a wireless mouse. The nRF52 Series SoCs offer a range of devices that perfectly address the needs of a wireless pen design.

→

### Suitable device
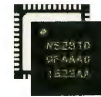
nRF52810
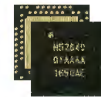
nRF52832

nRF52840

## Authentication

Personal authentication devices have become increasingly important as more and more valuable and sensitive information about lives and work resides on computers. These

devices have the ability to sense your proximity and allow or restrict access to computing devices accordingly. With super compact package and solution footprints Nordic Semiconductor have a range of SoCs that can realize authentication using technologies such as Bluetooth LE and NFC either separately or in combination with each other all on a single device.

Suitable device

nRF52832          nRF52840

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Home      Computers      OneBoard Pro+ Smart Keyboard + Android Computer

**COMPUTERS**

# OneBoard Pro+ Smart Keyboard + Android Computer

By **Gadget Junkie** - May 26        84        0

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The OneBoard Pro+ keyboard has backlit keys. It has 2 GB of RAM and supports up to 32 GB SD cards. You can find out more information about it here.

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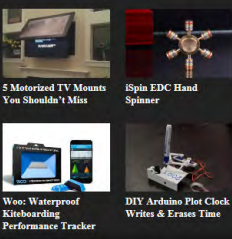
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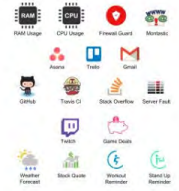Share ✉ 🔵 🐦 📌

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### Das Keyboard X50Q: Ultimate Crossover (Work / Gaming) Keyboard

**Made for Master Professionals and Master Gamers**

Essential productivity tool that keeps professionals focused on creativity and operating at the highest level of concentration. No more unwanted interruptions. Instead of relying on snooze-able, momentary alerts from different devices, the X50Q displays notifications in color directly on its RGB keys.

If your website is down or you have been assigned a new task, or if the software build fails, the Das Keyboard X50Q will let you know by changing colors on the keys. Want to know when your favorite Twitch user is online? No problem, the X50Q can do that.

The X50Q sports the fastest and most reliable mechanical switches. You rely on twitch reflexes and split-second decision making and the X50Q will be your weapon to win. Game on!

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Faster, more accurate typing, much brighter RGB lighting and unsurpassed 100 million keystrokes. Type at the speed of thought, instinctively moving words directly from your brain to your computer. Electrifying gaming due to shallower key travel and through-shaft LED design for brighter lighting.

### Product Details:

- Ultimate Smart RGB Keyboard for Professionals Who Like to Game: No interruptions, fully programmable
- Named Best Crossover (Work / Gaming) Keyboard by Mashable
- Advanced Mechanical Switches 100M Keystrokes 2X Brighter RGB+: Gamma Zulu soft tactile switches
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- Das German Engineering: Durable build quality to instill confidence and precision
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### Das Keyboard X50 RGB Features

| | Das Keyboard 5Q Smart RGB | Das Keyboard X50Q Smart RGB | Das Keyboard 4 Professional \| Ultimate \| root | Das Keyboard 4 Professional for Mac | Das Keyboard Prime 13 | Das Keyboard Model S Professional \| Professional for Mac |
|---|---|---|---|---|---|---|
| Switch Type | Omron Gamma Zulu Brown Soft Tactile with double cross point | Omron Gamma Zulu Brown Soft Tactile with double cross point | Cherry MX Blue (Clicky) or Brown (Soft Tactile) with gold contacts | Cherry MX Blue (Clicky) or Brown (Soft Tactile) with gold contacts | Cherry MX Brown (Soft Tactile) with gold contacts | Cherry MX Blue (Clicky) or Brown (Soft Tactile) with gold contacts |
| Switch Lifespan | 100 million | 100 million | 50 million | 50 million | 50 million | 50 million |
| Keycap Type | Double Shot | ABS Plastic | Professional: Laser-Etched \| Ultimate: Blank \| root: Laser-Etched | UV Hard Coat-Protected | Laser-Etched | Professional: Laser-Etched \| Professional for Mac: Laser-Etched |
| (NKRO) N-Key Rollover | Full n-key rollover | Full n-key rollover | Full n-key rollover | Full n-key rollover | Full n-key rollover | Full n-key rollover (with included PS2 adapter) or 6 keys with USB |
| USB Ports | - | - | Professional \| Ultimate: 2-Port USB 3.0 Hub \| root: 2-Port USB 2.0 Hub | 2-Port USB 3.0 Hub | One USB 2.0 Pass-Through | 2-Port USB 2.0 Hub |
| Media Controls | Dedicated Media Controls | Dedicated Media Controls | Dedicated Media Controls | Dedicated Media Controls | Quick Access Media Controls | Quick Access Media Controls (Not available over PS2) |
| Top Panel \| Wrist Rest | Black Anodized Aluminum \| Detachable Silicone Wrist Rest | Black Anodized Aluminum \| Detachable Soft Touch Wrist Rest | Black Anodized Aluminum | Black Anodized Aluminum | Black Anodized Aluminum | Glossy Black |
| Works With | Windows, macOS, Linux | Windows | Windows, Linux, Chrome | macOS | Windows, Linux, Chrome | Windows, Linux, macOS |
| System Requirements | One 2.0 USB Port, Optional 3.0 USB Port for Enhanced Brightness Mode | One 2.0 USB Port, Optional 3.0 USB Port for Enhanced Brightness Mode | One 1.1, 2.0 or 3.0 USB Port | One 1.1, 2.0 or 3.0 USB Port | One USB Port - (optional) Second USB Port for Pass-Through | One USB Port, Optional Second USB Port for Hub |
| Key Backlighting | RGB+ with Q Notifications | RGB+ with Q Notifications | - | - | White LED Backlighting | - |

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| **Are Batteries Included** | No | No | No | No | No | No |
| **Are Batteries Required** | No | No | No | No | No | No |
| **Color** | Soft Tactile | Soft Tactile - Cherry MX Brown Switch | black | Clicky - Cherry MX Blue Switch | White | Brown |
| **Connectivity Technology** | USB, USB 2.0 | USB, USB 2.0, USB 3.0 | USB, USB 2.0 | USB, USB 2.0 | USB | — |
| **Hardware Connectivity** | — | USB 3.0 | USB | USB 1.0, USB 2.0, USB 3.0 | USB, USB 2.0 | USB 2.0 |
| **Item Dimensions** | 17.77 x 6.63 x 1.28 in | 18 x 6.8 x 1.3 in | 18.03 x 6.77 x 1.22 in | 18 x 6.8 x 1.3 in | 6.5 x 18.5 x 1.5 in | 17.5 x 5.4 x 1.4 in |
| **Item Weight** | 3.2 lbs | 2.9 lbs | 2.9 lbs | 2.9 lbs | 2.75 lbs | 2.3 lbs |
| **Model Year** | 2017 | — | 2016 | 2018 | 2010 | 2016 |

## Product description

Style:**Smart Gaming - X50Q RGB**  |  Color:**Soft Tactile**

The Das Keyboard X50Q is the world's first Smart Crossover (Work/Gaming) Keyboard. The ultimate crossover keyboard for professionals who like to game. The X50Q displays important notifications directly on the keyboard keys. Made for master professionals - the essential productivity tool that keeps professionals focused on creativity and operating at the highest level of concentration. Made for master gamers - the fastest and most reliable mechanical switches. Game on!

## Product information

Style:**Smart Gaming - X50Q RGB**  |  Color:**Soft Tactile**

### Technical Details

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^ Other Technical Details

| Brand Name | Das Keyboard |
|---|---|
| Series | X50Q RGB |
| Item model number | DKGKX50P0GZS0USX |
| Hardware Platform | PC |
| Operating System | linux |
| Item Weight | 3.2 pounds |

### Additional Information

| ASIN | B073JG5266 |
|---|---|
| Customer Reviews | ★★★★☆ ⌄  1,322 customer reviews  4.0 out of 5 stars |
| Best Sellers Rank | #1,799 in Computer Keyboards |
| Shipping Weight | 4.85 pounds (View shipping rates and policies) |
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Apple's products are always elegant in design and smart in most features. With the release of the iPad Pro (9.7" & 12.9") you have a device that can be used as a tablet and laptop.

## Best iPad Pro Keyboards

Smart keyboards offer more options than simply typing feature, they're usually equipped with Bluetooth capabilities, detachable, wireless connection. If you are looking for the perfect keyboard to accompany your iPad Pro, here is the list of the **best keyboards for iPad Pro 12.9"**.

Shop Related Products

## Apple Smart Keyboard:

If you ask me what my preferred keyboard is, I would pick the Apple Smart keyboard. It has everything one can wish for. Smart Keyboard is the perfect blend of utility and portability. iPad Pro's Smart Keyboard is featured with innovative technology that does not have plugs, switches, and does not require pairing. You can fold it as a cover when not used and unfold it and use as a keyboard.

It comes with Smart Connector that transfers both data and power between iPad Pro and the Smart Keyboard. No need of batteries or no charging. Just attach the Smart Keyboard to start typing and an onscreen keyboard automatically appears when disconnected. the keys have been laser ablated into a custom woven fabric that provides spring-like tension for each key and the fabric is also spill proof and water proof.

### Pros:

- Spill proof and water proof.
- Folds into slim lightweight cover

### Cons:

- No Backlit keys.
- Available only in one color.

>>Check Price<<

## Logitech CREATE Backlit Keyboard Case:

Logitech Create Backlit Keyboard just look the same as the Apple Smart Keyboard. Logitech Create Keyboard is the best keyboard to choose from because of its price, wide range of colors, and even

choose from because of its price, wide range of colors, and even backlit (Apple Smart Keyboard is not). It connects to the iPad via a smart connector and  gets its power via the Smart Connector. Create Keyboard is equipped with a special row of dedicated iOS shortcuts at your fingertips without ever leaving the keyboard.

Click on the home screen button, search your iPad, the web and you can adjust brightness, control audio or video playback with just one click. Custom-sculpted curves and precision-formed anodized aluminum provide structural integrity to protect your iPad Pro on the inside and the tightly woven premium fabric resists bumps, scratches, and spills from outside. Logitech Create Backlit Keyboard is available in classic red or gold, classic blue or silver, black or space grey, iris or black and black.

Pros:

- Backlit Keys.
- Smart connector.
- Keyboard with the case.
- Comes in more than one colour

Cons:

- Two viewing angles.

>>Check Price<<

## Brydge Keyboard:

Brydge Keyboard gives you the look and feel of a MacBook when connected to the 12.9 inch iPad Pro. Brydge Keyboard is a full keyboard with 3-level backlit keys and the top row with dedicated iOS special function keys. Brydge Keyboard is made out of a single piece of high-grade aluminum for added strength and beauty.

The keys are LED backlit keys that provide the ultimate typing experience in low to no light conditions and weighs only 25oz to keep the mobility simple and light. The keyboard needs to be charged. Versatile viewing angles from 0-180 degree with a hinge will allow you to easily connect or remove your iPad and change from tablet to laptop in seconds. Brydge Keyboard comes in silver, Black, and Gold colors.

Pros:

- Converts to laptop or tablet.
- LED Backlit keys with light or no light
- Can be viewed from 0 to 180-degree angles.

Cons:

- Not spill proof

>>Check Price<<

## Zagg Slim Book wireless Bluetooth keyboard:

Zagg Wireless Bluetooth keyboard is known for its four mode conversions and connects with Bluetooth to the iPad. Zagg Keyboard is made of plastic and provides 0 to 135-degree angle viewing just like any laptop. The LED Backlit keys made typing easy in no or low light conditions and look simply beautiful.

Slimbook hinges secure your tablet practically at any viewing angle and converts as a keyboard, convenient video mode, book mode, or folds flat for a protective case mode. The Slim Book is powered by powerful batteries that last for up to two years between charges. Zagg keyboard weighs around 4lbs, is only available in one color.

Pros:

- LED Backlit Keys.
- Four Conversion modes for different types of viewing.
- Detachable case.

Cons:

- Available only in one color.
- Not spill proof.

>>Check Price<<

*Whats your favorite keyboard for the 12.9-inch iPad Pro?*

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## Joy of Apple

# 10 Best iPad Smart Keyboard Cases (Most Sold)

**NOVEMBER 30, 2018** *by* **LACE**
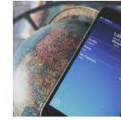


**10 Best iPad Smart Keyboard Cases (Most Sold)**

The iPad Pro has been a strong substitute for a laptop and keeps up with traditional computers in many ways. However, there's no denying that you will get more work done when you type on a keyboard. So in this article, we will give you the list of the best iPad smart keyboard cases.
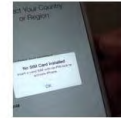
BRYDGE

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How To Fix iPhone Not Detecting SIM Card? The Full Guide!

iPad Pro 10.5″. It makes working on an iPad feel like a traditional laptop.

## What Is A Smart Keyboard?

Apple iPad Pro Smart Keyboard

The iPad Pro smart keyboard is a detachable, wireless keyboard accessory for iPad Pro. It lets you type on the iPad without using its touchscreen interface.

**Since its release, many manufacturers have created smart keyboard alternatives. This gives users more options to find a style that fits them.**

B R Y D G E

Wireless Keyboard for the
new 11-inch and 12.9-inch iPad pro

Pre-order Now

Seeing as the market is filled with smart keyboard cases, you
have nothing to worry about. There's no doubt you'll find
something you like. It can be hard to narrow them down and
know which ones are the best.

**Related: iPad Keyboard Shortcuts That You Need To
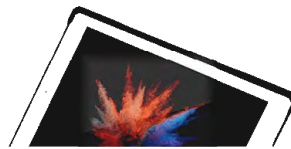Know!**

## 10 Best iPad Smart Keyboard Cases

## iPad Pro 9.7″ Model

1. Inateck 9.7″

**Price: $29.99**

**Inateck Wireless Smart Keyboard**

Instantly turn your iPad into a laptop with Inateck smart keyboard. It is powered by a 800mAH lithium battery that can be used for a long time.

**There are 7 backlight colors available to choose from that are very stylish. They provide bright illumination in the dark, without straining your eyes.**

This product is very light and compact, allowing you to easily take it with you everywhere. The keyboard also doubles as an iPad case so you can ensure total protection of the device.



2. Yekbee

**Price: $43.92**

**Yekbee iPad Smart Keyboard**

If you are looking for a cheap iPad smart keyboard, Yekbee is the best answer to that. You can get a smooth typing experience without breaking the bank.

Transform your iPad into a book in just a few seconds by removing the rechargeable battery. **You can also rest assured that your iPad is protected with the ABS plastic shell interior and synthetic leather exterior.**

To add fun to your typing experience, the backlight has 7 vibrant colors that has three levels of brightness to help you type at night.

3. Zagg Rugged

**Price: $98.98**



**Zagg Rugged Smart Keyboard**

Get a heavy-duty smart keyboard that is perfect for your adventurous spirits with Zagg Rugged smart keyboard. You don't have to worry about getting dirt or water splashed on it, as the Zagg Rugged smart keyboard will handle it all for you.

The four multi-function modes give users comfort and convenience when it comes to working on the iPad. **It is designed with polycarbonate, with silicone interiors and stainless steel plates that provides protection that your iPad deserves.**

The two-year battery life of the Zagg Rugged smart keyboard can definitely keep up with your busy lifestyle.

can definitely keep up with your busy lifestyle.



## 4. Griffin

**Price: $89.95**



Griffin Snapbook Smart Keyboard

Griffin makes a bold claim that the Snapbook can withstand even a 6-foot drop. It is not the most conventional smart keyboard out in the market, yet it can still give you a smooth typing experience.

**Griffin Snapbook also allows video, book, and laptop modes for user convenience.** The keyboard also doubles as a hard case that ensures full protection of your iPad. The keyboard also works with a full-functioning rechargeable battery.

battery.

Buy at Amazon ▶

## iPad Pro 10.5″ Model

1. Zagg Slim Book

**Price: $119.99**

Zagg Slim Book for iPad Pro 10.5″ Model

The Zagg Slim Book keyboard lets you have four modes: keyboard, book, video, and case. Powered by a rechargeable battery, **Zagg Slim Book keyboard lets you type up to two years of continuous use.** Imagine all the work you could get done!

It also has a slim frame that makes using, carrying, and storing super easy. The keyboard has a back lighting that makes

super easy. The keyboard has a back lighting that makes typing in the dark possible.

The Zagg keyboard is designed with a cradle hinge, so you can be sure that your iPad stays in place.

Buy at Amazon ▶

2. Brydge

**Price: $129.99**

**Brydge iPad Smart Keyboard**

The Brydge smart keyboard provides a modern design that compliments your iPad very well. Increase your productivity with the help of this smart keyboard.

**Connect your iPad with the Bryde smart keyboard via bluetooth and you can then enjoy a smooth typing**

**experience.** But there's one thing to remember, it doesn't double as a case so the iPad doesn't have the same protection that the others on this list provide.

Buy at Amazon ▶

3. Apple

**Price: $169**



**iPad Pro 10.5" Smart Keyboard**

When you buy a brand new iPad Pro, make sure to include a smart keyboard in your checkout,

**The Apple smart keyboard requires no plugging, no system switching, no pairing and no charging.** Position the iPad Pro to the smart keyboard sensors and voila, you can type easily.

It is very light and compact and you can take it anywhere with you. The keyboard also doubles as an elegant case that allows easy access.

Unlike traditional keyboards, there are no gaps in between the keys for dirt, crumbs, and other debris to fall into. Even better, the material is coated with a water and stain-resistant finish.



## iPad Pro 12.9″ Model

1. Logitech Create

**Price: $169.90**



**Logitech Create For iPad Pro 12.9″ Model**

The Logitech Create smart keyboard is perfect for students and

iKream

Home     iPhone XR Guide     Featured     Tutorials     iPhone Troubleshooting     iPhone Mailbag     Index     Contact

# 7 Best Smart Keyboard For 12.9-inch iPad Pro

by Brad on April 2, 2019

The 12.9-inch iPad Pro has a really neat accessory available to it. Called the Smart Keyboard, it's a way for you to get a screen cover and keyboard all in one accessory. These generally connect up to your iPad Pro over magnets — set your tablet on the magnetic tray area, and it automatically connects up to the attached keyboard. When you're done with it, fold it up, and it turns into your regular, everyday screen cover.

| Product | Brand | Name | Price |
|---|---|---|---|
|  | Apple | Apple Smart Keyboard for iPad Pro 12.9 | Buy on Amazon \| $157.17 (Price as of 05/01/2019 12:49 ET) |
|  | Logitech | Logitech iPad Pro 12.9 inch Keyboard Case | Buy on Amazon \| $108.62 (Price as of 05/01/2019 12:49 ET) |
|  | Rayc | 7-Colors Backlight |  |
|  | Logitech | Logitech Create – Backlit Keyboard Case with Smart Connector | Buy on Amazon \| $128.63 (Price as of 05/01/2019 12:49 ET) |

| | | | |
|---|---|---|---|
| | Connector | | |
| Valkit | Valkit Bluetooth Keyboard for iPad Pro 12.9, iPad Pro | Buy on Amazon \| $55.99 (Price as of 05/01/2019 12:49 ET) | |
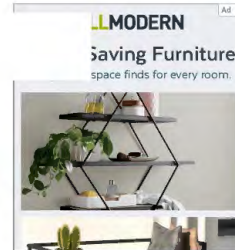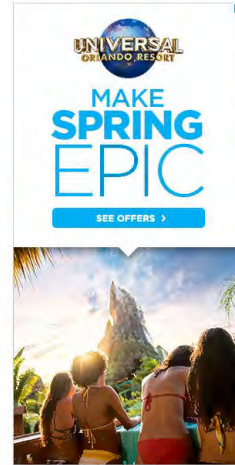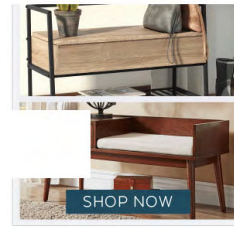
Not sure what Smart Keyboard for the 12.9-inch iPad Pro to get? That's why we've assembled this list of the seven best smart keyboards for you. Follow along below, and we'll show you our top picks!
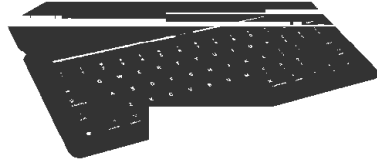
## Apple Smart Keyboard

Coming up as first on our list, we have Apple's very own Smart Keyboard. Set your 12.9-inch iPad Pro in the stand, and the connection happens almost immediately. You can open up any note taking application or document application and immediately start typing. It's a full size keyboard as well, so there are actually some really good ergonomics here. You could use this keyboard for hours without getting cramps in the hand. It runs off of the Smart Connector for the exchange of power and data, so it does take up the iPad Pro's own battery to keep it powered.

***Buy it now:*** Amazon

# Logitech iPad Pro 12.9 Smart Keyboard

Coming up as second on our list, we have Logitech's own iPad Pro 12.9-inch Smart Keyboard. This one operates similarly to Apple's Smart Keyboard, connecting up to your iPad Pro by way of the Smart Connector. There's no batteries or Bluetooth connection needed here — just set your iPad Pro on the Smart Connector part of the accessory, and the connection happens almost instantly. The keyboard on this one is actually detachable so that you have extra flexibility. What's unique about this keyboard is that the keys are backlit, allowing for easy typ

***Buy it now:*** Amazon

# Fintie Smart Keyboard Case For iPad Pro 12.9

If you're looking for an excellent and professional Smart Keyboard for the iPad Pro, you cannot go wrong with the one that's made by Fintie. This one is designed for the 3rd generation (2018) model, an

This one is made out of dura
nice appearance and feel to it. It has a cover, which keeps your display protected and free from scratches.

There's an anti-slip rubber-lined interior, which helps keep the overall tablet protected, and without the bulk of many of the thicker tablet cases out there. It even has a polycarbonate layer/shell, which keeps your tablet safe from hard falls.

The keyboard portion of this one is nice, giving you fairly nice feeling keys and a Bluetooth range of around 10 meters.

***Buy it now:*** Amazon

# Inateck Stellarie

The Inateck Stellarie is some
weight, and therefore allowing you to easy travel around with it. It actually has a detachable design, which allows you to remove the keyboard cover whenever you need to.

Inateck's Keyboard Case actually has a stand that you can expand out, which makes it easier and more comfortable in terms of viewing angles.

The keyboard actually has a backlight, which makes it easier for typing in the dark. There are actually three different colors that you can switch out for the backlight.

Inateck is also one of the few case makers that understands that you'll likely be using an Apple Pencil with your iPad Pro. That said, they include a nice slot for it to rest, as well as where it can charge.

***Buy it now:*** Amazon

## Logitech Create

Logitech makes a second keyboard for the iPad Pro, actually. Called the Logitech Create, this one connects up to your tablet directly through the Smart Connector. What's really neat about this Smart Keyboard is that it has a row of iOS shortcuts right on the keyboard — press one of the buttons and you can instantly open up and app, search, or more. This one is actually a pretty heavy duty keyboard, primarily made out of aluminum. It feels really high quality, and the keys all feel great, with some nice travel behind them. The Logitech Create is actually a full-on case, which also keeps your iPad Pro 12.9-inch safe from bumps, scratches, and some minor drops.

**Buy it now:** Amazon

## TURN IPAD INTO MACBOOK

## Raydem Smart Keyboard For iPad Pro 12.9-inch

Next, we;re looking at the Raydem Smart Keyboard designed for the iPad Pro 12.9-inch model. This one is third-party accessory maker, but they provide a cheap way for anyone to get into a Smart Keyboard. Just set your iPad Pro on the Smart Connector portion, and the connection happens almost instantly. The keyboard is a full-size keyboard, so once the attachment completes, you essentially have a MacBook Air in your hands. The keys are comfortable and easy to use, and the case provides a little extra protection for your iPad Pro.

The keys are all backlit, so yo                                                 different color options that you can choose for the backlighting.

***Buy it now:*** Amazon

## Valkit Bluetooth Keyboard For iPad Pro 12.9-inch

Coming up as last on our lis
For iPad Pro. This one doesr

## Valkit Bluetooth Keyboard For iPad Pro 12.9-inch

Coming up as last on our list, but certainly not least, we have the Valkit Bluetooth Keyboard For iPad Pro. This one doesn

over Bluetooth. This one is a

ample protection against dr

work with the full-size keyboard. You do have to pair over Bluetooth with this one, unfortunately, but it's one of the few keyboard cases that actually provide you with ample protection while you're on the go. The back cover is actually shockproof, absorbing much of the shock that one would experience from a drop or fall.

**Buy it now:** Amazon

## Verdict

As you can see, there are a lot of excellent Smart Keyboard's available for the 12.9-inch iPad Pro. If you're looking for *the* best, you really cannot go wrong with the Logitech Create. It's a full size keyboard with some awesome shortcuts that make your iOS experience a little more effic

| Product | Brand | Name | Price |
|---|---|---|---|
| | Apple | Apple Smart Keyboard for iPad Pro 12.9 | Buy on Amazon \| $157.17 (Price as of 05/01/2019 12:49 ET) |
| | Logitech | Logitech iPad Pro 12.9 inch Keyboard | Buy on Amazon \| $108.62 |

| | | 12.9 inch Keyboard Case | (Price as of 05/01/2019 12:49 ET) |
| | Rayo | | |
| Logitech | | Logitech Create – Backlit Keyboard Case with Smart Connector | Buy on Amazon \| $128.63 (Price as of 05/01/2019 12:49 ET) |
| Valkit | | Valkit Bluetooth Keyboard for iPad Pro 12.9, iPad Pro 12.9 Keyboard Case | Buy on Amazon \| $55.99 (Price as of 05/01/2019 12:49 ET) |

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# Top 10 Best Wireless Bluetooth Keyboards For Tablets

DEC 07, 2017    *by* **MIKE**    *in* **TABLET ACCESSORIES**

Tablets are getting more and more advanced the-
se days and with the increase in people's con-
sumption now some tablet manufacturers have
also started pushing desktop-graded processors
underneath for doing some serious tasks. With
that being said, most of the users have now start-
ed migrating towards tablets as their main device
because of the portability and versatility it offers.
However, there is a catch, imagine typing e-mails
or blog posts on a tablet by tapping for hours on
screen and losing accuracy, no matter some tab-
lets do come with keyboard within the package, but what about those tablets which don't come with a keyboard.
Well, our Tablet Accessories' professionals have made everything easy by digging out some of the best Blue-
tooth keyboards for tablets which are remarkably ergonomic in design and flexible to use with every Bluetooth en-
abled tablets.

HELLO,

Welcome to *Tablet Under Budget* - A
website where people can find and buy
best tablet within their budget. This website
is managed by group of tablet professionals
who undergoes lot of research everyday to
compile list of best tablets under different
price ranges and for various requirements
of people.

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SUBSCRIBE TO TABLET UNDER BUDGET

Most of the keyboards from our list are universal, meaning they are *compatible with most of the Tablets, Phones & Laptops having Bluetooth connectivity onboard*. However, as this guide is mainly focused on Bluetooth keyboards for tablets, we will be reviewing them specifically with respect to tablets. One more thing to note that these keyboards are not keyboard-case coupled, so you won't have that laptop-style transformation. Anyway, those who want to get that transformation can purchase this **$10 Portable Multi-Angle Stand** to dock their tablet while typing.

## Best Bluetooth Keyboards For Tablets

⊹ SUMMARY

## 1. Arteck HB030B Universal Wireless Keyboard  #1 Best Seller

The Artech Universal is a sleek and ultra-portable Wireless Keyboard which will be compatible with almost every Bluetooth enabled device you throw at it, which includes all the iPads, Android tablets, Smartphones, PCs and even laptops. It is designed with high-grade anodized Zinc alloy on the back which feels really premium and resis-

even laptops. It is designed with high-grade anodized Zinc alloy on the back which feels really premium and resistive with a plastic brushed panel on the front. Moreover, the backlit keys onboard are whisper-quiet and have enough key travel bringing a whole new level of comfort to your fingertips. *The Artech HB030B is currently on #1 Best Seller spot on Amazon* due to its ultra-sleek design, battery-life, and compatibility with most of the devices.

Most of the keyboards mentioned here use battery-power directly from the tablet, while this Artech wireless keyboard features rechargeable Li-Polymer battery underneath which promises 6 months of continuous usage on a single charge based off 2 hours usage per day which is really impressive for the price it comes. Weighing just 0.4 pounds with dimensions of 9.3 X 5.3 X 0.24 inches, the Artech Bluetooth Keyboard is a very light and portable keyboard to toss in your backpack and carry around.

The Artech keyboard is usable straight out of the box and it comes with a USB charging cable, welcome guide, and 24-month warranty in the package. As the keyboard features LED-backlit feature, it can be customized with 7 different colors deep blue, soft blue, bright green, soft green, red, purple and cyan. The only down-side we can notice about backlit is that it doesn't feature white color which most of the users prefer while typing at night. Overall, the Arteck is one of the best Bluetooth keyboards at an affordable price to hook up with your tablet and other Bluetooth enabled devices.

<div style="text-align:center">

**$20 | Buy at Amazon**

</div>

## 2. Logitech Bluetooth Multi-Device Keyboard K480



If you own one or more devices, then you should definitely check out the Logitech K480 Bluetooth keyboard. The software that works on this keyboard enables you to create up to three different profiles which can be switched

through devices by rotating that round controller on the top-left corner. *The integrated cradle at the top of the keyboard holds your tablet or smartphone* at a perfect angle to your eyes which in addition will save you a few bucks from buying a stand for your tablet.

No matter on what operating system you're using this keyboard with, you will find familiar keys like command, ctrl, alt and option. Moreover, *the keys are round-shaped and ergonomically curved giving you a fine grip and comfort* while typing blog posts or E-mails for significantly longer time. For travel bloggers seeking out portability, this 1.8 pounds compact keyboard is very light to throw in your backpack and feels much more practical than typing with touchscreen keys. Moreover, users can start typing with Logitech K480 keyboard right out of the box as 2 AAA batteries come pre-installed on the keyboard. Overall, the Logitech K480 Keyboard is one of our most recommended Bluetooth keyboards for Android tablets as well as iPads, offering great versatility and portability.

<div style="text-align:center">

**$30 | Buy at Amazon**

</div>

## 3. Anker Universal Bluetooth Keyboard
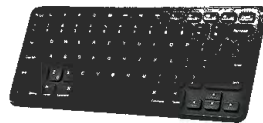
Made especially for iPads, the Anker wireless keyboard comes with inbuilt Bluetooth connectivity, full-size keys and iOS shortcuts for typing. However, if you have other devices as well, then it also supports Android and Windows operating systems for typing. The keyboard needs to be paired only once, thanks to the Bluetooth connectivity onboard which automatically connects to your previously connected devices on your next session of typing. Talking about the design, the Anker wireless keyboard features matte-finished full-size keystrokes which are very tactile and have enough key-travel for typing. Moreover, the keyboard layout is industry standard featuring all the basic shortcuts and multimedia operations that we use most often.

As long as battery life is concerned, the Anker Bluetooth keyboard delivers up to 6 months of continuous usage based off 2 hours of daily usage, which can be recharged with the micro USB cable that comes within the package. Overall, the Anker Universal Bluetooth keyboard is a good compact-sized keyboard not only for iPads but other Android tablets as well.
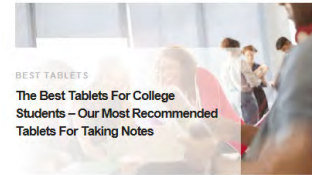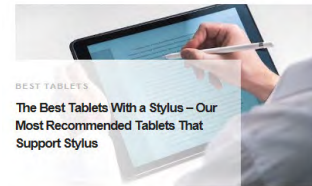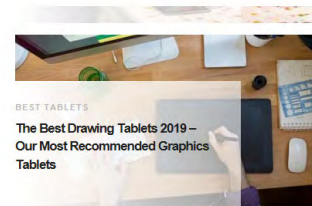
other Android tablets as well.

Black     White

**$24 | Buy at Amazon**

## 4. Arteck Stainless Steel Bluetooth Keyboard



The one thing for which this keyboard by Arteck really stands out is its design and build quality. It is assembled with stainless steel which seems really premium and gives that heavy-duty feeling. The low-profile keys are very tactile and have enough key travel offering the best typing experience ever. As far as compatibility is concerned, it can be quickly toggled between Android, iOS or Windows by pressing shortcuts available onboard. For instance, if you switch keyboard from Windows to iOS then the Control key will work as Command key and vice versa. Though it is built of Stainless Steel, it weighs only around 10 ounces which makes it one of lightest and toughest keyboard on our list of best Bluetooth keyboards for tablets. The dimensions are somewhere around 11.1 X 5.3 X 0.16 inches which are ideal for throwing this out in a backpack.

According to Arteck, this wireless keyboard comes with a rechargeable battery under the hood which lasts around 6 months on a single charge based on 2 hours of usage per day which is quite common for most of the Bluetooth keyboard in the market. Overall, the Arteck Bluetooth keyboard is our most recommended keyboard as it offers the best-in-class built quality and broad compatibility.

**$25 | Buy at Amazon**

## 5. Microsoft Universal Foldable Keyboard
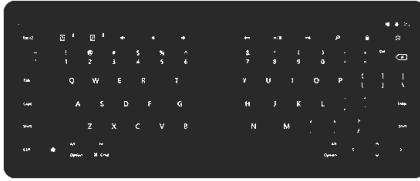
This foldable universal Bluetooth keyboard by Microsoft is one of the most compact keyboards out there which is compatible with Android, iOS and Windows. It works on the latest Bluetooth 4.0 technology which provides high accuracy and consumes significantly less power than the previous technologies. However, the battery here is not rechargeable which according to Microsoft will provide you with around 3-months of continuous usage.

The Microsoft's ultra-thin designed keyboard weighs only 0.75 pounds and measures around 6.1 x 5.3 x 1.1 inches which is very compact sized and still features all the key-sets and functions that we use often. As it is foldable, it becomes the size of a wallet when folded. Moreover, its power mechanism is pretty straightforward, unfolding the keyboard actives it up and shuts it down when folded. Another design feature is the key-set and fabric on the front are spill-resistant which will help protect your keyboard against those sudden coffee accidents at your desk. Overall the Microsoft Foldable keyboard is the best folding Bluetooth keyboard for people with portability as their primary requirement.

**$70 | Buy at Amazon**

## 6. Jelly Comb Folding Bluetooth Keyboard

The Jelly Comb Folding keyboard is a good alternative to Microsoft's foldable keyboard for those who don't want to spend much. It folds from two sides and becomes roughly the size of a wallet or purse which makes it extremely portable to carry around with your tablet. Weighing just around 10.4 ounces, the Jelly Comb Bluetooth keyboard features an ultra-thin matte finished design which according to the company can easily resist normal drops and accidents. The keyboard layout is industry standard which features few additional shortcuts like Play, Pause, Volume, Page Up & Down which will help you to increase your workflow. Moreover, here we also have a Trackpad which makes it, even more, easier to browse through long-lists of files and web pages and gives that laptop like experience while working without comprising productivity. However, readers should note that the Trackpad here is not compatible with iOS which company claims to have plans to fix it in future.

As far as battery life is concerned, the Jelly Comb foldable keyboard houses a rechargeable lithium-ion battery which delivers up to 48 hours of continuous typing and standby time up to 560 hours on a single charge. Overall, this Jelly Comb keyboard is the best Bluetooth keyboard with touchpad for typing blog posts, E-mails or taking those important notes at business conferences.

Black    Silver

**$30 | Buy at Amazon**

## 7. Logitech Keys-To-Go For iOS

If you own an iPad, then this $60 Logitech wireless keyboard has got your back. It is specially designed and optimized for iOS devices which include iPads, iPhones and Apple TV at much lower price than the Apple Smart Keyboard. The Apple Smart Keyboard will cost you around $160 which is almost $100 more than this.

The Logitech Keys-To-Go Keyboard features a very slim design which is very durable and spill-resistant, the fabric on the front protects the keyboard from dirt, spills, and drops so that you can use it indoors and outdoors without any worries. Weighing just 6.2 ounces, the Logitech Wireless keyboard is way lighter than the Apple Smart Keyboard which weighs 15.5 ounces. The keys are well-spaced and feature all the iOS shortcuts that you're used to, multi-tasking, camera, Safari, Bluetooth, play, pause and many more. Moreover, the key-strokes feel, even more, clickier than the Apple's smart keyboard and have sufficient key travel. This makes the typing experience more positive in terms of accuracy. Pairing with your iPad will be seamless with the Bluetooth technology, just hit the Bluetooth settings on your iPad and tap on Logitech Keys-To-Go and you're paired!

As far as battery life is concerned, the Logitech Keys-To-Go packs a rechargeable battery under the hood which can easily last 3 months based on 2 hours of daily usage. What's in the box? Well, you get the keyboard itself, a USB cable for charging, documentation and 1-year limited hardware warranty.

Black     Red

$62 | Buy at Amazon

## 8. iClever Universal Wireless Keyboard

As the iClever Bluetooth keyboard is a universal keyboard, it is compatible with Android, iOS, and Windows. Users can use this keyboard with their tablets, smartphones and even laptops having Bluetooth connectivity onboard. Pairing can be done seamlessly by accessing the Bluetooth settings of your device.

The design of the iClever Bluetooth keyboard is very sturdy and especially the key-strokes feel remarkably tactile and clickier than ever which brings out the most comfortable typing experience ever. Moreover, the keys feature 7 different LED backlight colors with 2 brightness levels which you can adjust as per your requirement. Specifically, the backlight color can be switched to deep-blue, soft-blue, bright-green, soft-green, red, purple and cyan, allowing to adjust the color as per your mood. Like most of the Bluetooth keyboard in the market, the iClever Universal keyboard also features a rechargeable battery which company promises can deliver up to 120-days on a single charge. Moreover, it features a Power Saving feature which automatically takes the keyboard to sleep after 15 minutes of inactivity to save power. Overall, the iClever Bluetooth keyboard packs all the necessary features, a standard keyboard layout, capability across all platforms and the best thing, it doesn't break the bank as well.

$22 | Buy at Amazon

## 9. Nulaxy Smart Stand Bluetooth Keyboard

The Nulaxy smart keyboard is compatible with devices running on Android, iOS and Windows having Bluetooth feature onboard. Users just need to pair this up with their device to start typing on the keyboard. The Nulaxy keyboard features a slim and ultra-portable design which enables its users to carry it anywhere especially those travel bloggers who have to document every single thing about the places they travel. Moreover, the keyboard layout is pretty standard as we see on laptops, the keys feel very responsive and clicky while typing. The keyboard lasts over 60 days on a single charge which can be recharged using a cable given within the box.

The Nulaxy smart keyboard also features a smart stand which protects your keyboard when closed and can also be used to stand tablets when opened to have that laptop-style transformation for typing. Overall, the Nulaxy keyboard is a good Bluetooth keyboard for tablets which also doubles up as a smart stand.

$18 | Buy at Amazon

## 10. Jelly Comb Universal Bluetooth Keyboard
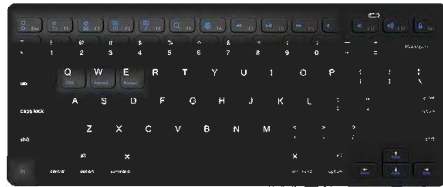


If you're looking for the cheapest keyboard in the market that you can get, then the $15 Jelly Comb Bluetooth keyboard is a good option. It might look like an aluminum keyboard but it it is entirely built of plastic. However, the design is super-thin and light making it convenient to throw in your backpack. Though it is made of plastic, it can easily resist normal drops, meaning it is enough sturdy and resisitive for everyday usage.

The keyboard is compatible with whatever the device you have running on Android, iOS and Windows operating system. The operating system from the keyboard can be changed by pressing Fn+Q,W,E keys on the keyboard. The scissor-switch keys are ergonomically designed giving you a very responsive feedback with a pleasant typing

experience. The optimum slope design of the keyboard prevents your wrist from hurting while long sessions of typing. The manufacturer claims that keyboard lasts over 700 hours using 2 AAA batteries which aren't included in the package. Whenever the battery is about to go down, the LED indicator on the top-right corner of the keyboard indicates in advance so you don't get locked out in business meetings or while writing important E-mails.

| Black | White |

**$15 | Buy at Amazon**

These were our experts most recommended Bluetooth keyboards for tablets. Most of the keyboards from our list are universal, meaning they will work with any device having Bluetooth connectivity onboard. For most users, the #1 Best Seller Arteck HB030B keyboard should be fine due to its cross compatibility, light-weight design, back-lighting and long-lasting battery life. Users with portability obsession should go for the ultra-portable Microsoft pocket-sized foldable keyboard which becomes roughly the size of a wallet when folded. Those who need a keyboard for multiple devices should go for the Logitech K480 keyboard which features a round controller to quickly switch between multiple devices for efficient typing. And those with no idea about their requirements can ask us in comments, we will be happy to help! 🙂

**SHARE THE LOVE**          **ABOUT THE AUTHOR**                                    Mike

3
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Mike Johnson is senior editor of this website - Tablet Under Budget. He along with the team of tablet professionals, helps people in buying best tablet within their budget.

2 THOUGHTS ON

**"Top 10 Best Wireless Bluetooth Keyboards For Tablets"**

**George says:**                                    FEB 10, 2018

Looking for a keyboard exactly like these except that it needs to pair with my new Samsung smart TV, do you know of one.

REPLY

**Mike says:**                                    FEB 11, 2018

Hello George,

You can pick any of the Bluetooth keyboards from our list as all of them are compatible to use with smart TVs. To connect, just hit the Settings on your TV and open Input device manager > Add Bluetooth keyboard.

REPLY

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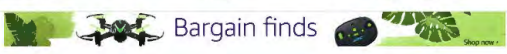
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VIDEO

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**New Trent iPad Keyboard Case Airbender Star with Detachable Wireless Bluetooth Smart Keyboard for The Apple New iPad 6th Gen (2018), iPad 5th Gen (2017), iPad Pro 9.7, iPad Air & Air 2**
by New Trent

★★★★☆ ▾   2,546 customer reviews  |  180 answered questions

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- Hard clamshell keyboard design with detachable back case
- Optimized key design for comfortable typing experience
- Compatible with Apple 6th iPad (2018), 5th Gen iPad (2017), iPad Pro 9.7, iPad Air, iPad Air 2
- NOT compatible with iPad Pro 10.5, iPad Pro 12.9, iPad 4th Gen, iPad 3rd Gen, iPad 2nd Gen and iPad 1st Gen

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☑ Apple iPad (Wi-Fi, 32GB) - Space Gray (Latest Model) $249.00

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★★★★☆ 14
$57.9 / ✓prime

Keyboard Case Compatible with iPad 2018 (6th Gen), iPad 2017 (5th Gen), iPad Pro 9....
★★★★☆ 241
$59.9 / ✓prime

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Ad feedback

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Page 1 of 3

Apple Smart Keyboard for iPad Pro 9.7-inch (2016 Model)
★★★★☆ 286
$139.99

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★★★★☆ 1,047
$48.32 ✓prime

Fintie iPad 4/3/2 Keyboard Case - Multiple Angles Stand Cover with Built-in Wireless...
★★★★☆ 627
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Fintie iPad 9.7 inch 2018 2017 / iPad Air 2 / iPad Air Keyboard Case - Multiple Angles Stand Protective...
★★★★☆ 819
$32.99 ✓prime

AmazonBasics New iPad 2017 Smart Case Auto Wake/Sleep Cover, Black, 9.7"
★★★☆☆ 289
$9.99 ✓prime

Apple Smart Keyboard for 12.9-inch iPad Pro 2nd Generation / 1st Generation - Gray (MJYR2LL/A) - (Renewed)
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🔍

**Product Description**

# Airbender Star

*Wireless Keyboard Case for:*
*iPad Air, Air 2, iPad 5, & iPad Pro 9.7"*

+ Durable Clamshell Design
+ Ergonomically Optimized Keyboard
+ Detachable Swivel Case

**Compatible with iPad tablets below:**

- iPad Air
- iPad Air 2
- iPad 5th Gen
- iPad 6th Gen (2018)
- iPad Pro 9.7 inch

**NOT Compatible with iPad Tablets below:**

- iPad 1, 2, 3, or 4
- iPad Pro 10.5 inch
- iPad Pro 11 inch
- iPad Pro 12.9 inch
- Any iPad mini

**Detachable Smart Cover**

Detachable case allows iPad use with and without the function of the keyboard

**360 Rotation**

Innovative metal hinge for rotatable swivel functionality for unlimited viewing options

**Sleek Design**

Hard clamshell keyboard design with detachable back case

**Ergonomically Optimized Keyboard**

Optimized key design for comfortable typing experience

**New Camera Cutout**

Compatible with both iPad Air and iPad Air 2 rear cameras

**Lightweight Cover**

Lightweight and thin detachable cover

Detachable cover and sleek design
to meet your everyday needs.
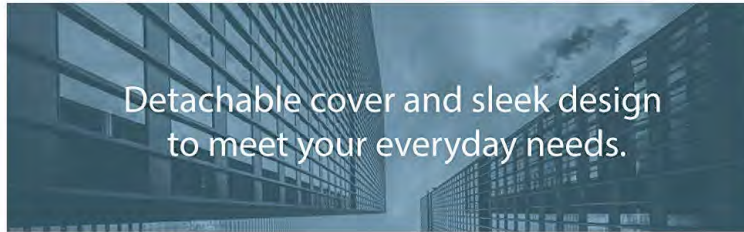
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| Sold By | Newtrent | Newtrent | LENRICH | Infiland LLC | Infiland LLC |
| Color | black | black | 360 Black | Black | Black |
| Compatible Devices | ipad 9.7 2018, ipad 9.7 inch, ipad 9.7 2017 | ipad 9.7 2018, ipad 9.7 inch, ipad 9.7 2017 | 2018 iPad 6 (Model A1893, A1954) 2017 iPad 5 (Model A1822, A1823) iPad Air (Model A1474, A1475) | apple ipad pro 12.9 | apple ipad 9.7 inch, apple ipad, apple ipad air, apple ipad pro 9.7 |
| Enclosure Material | Composite | Composite | Plastic Hard case | — | leather |

## Product information

| | | |
|---|---|---|
| Product Dimensions | | 11 x 8 x 1.5 inches |
| Item Weight | | 1.2 pounds |
| Shipping Weight | | 1.55 pounds (View shipping rates and policies) |
| Manufacturer | | New Trent |
| ASIN | | B012BTCZ9G |
| Item model number | | NT55B |
| Customer Reviews | | ★★★★☆ ˅   2,546 customer reviews<br>3.9 out of 5 stars |
| Best Sellers Rank | | #122 in Tablet Cases |
| Date first listed on Amazon | | November 16, 2015 |

### Technical Specification

Warranty [pdf ]

### Warranty & Support

Product Warranty: For warranty information about this product, please click here. [PDF ]

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Ad feedback

# Customer questions & answers

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**Question:** Does the keyboard illuminate?

**Answer:** It does not.
By AaronR on January 5, 2016

▼ See more answers (8)

▲
5

**Question:** Can you use the keyboard in portrait mode & if not, can anyone suggest a case/keyboard which can?

**Answer:** Hi

| | **Answer:** | Hi, |
|---|---|---|
| votes | | Once the bluetooth is connected you can use the keyboard in any mode regardless. Hope this help! |
| | | By Bob on January 28, 2016 |
| | | ⌄ See more answers (1) |

| | **Question:** | How Long does the battery last on one charge? |
|---|---|---|
| 2 votes | **Answer:** | I have went a month without charging mine and it still worked before charging. |
| | | By samuel on August 14, 2016 |
| | | ⌄ See more answers (2) |

| | **Question:** | How well does this case protect when it is dropped to the floor? |
|---|---|---|
| 1 vote | **Answer:** | Yes ... I accidentally drop mind several times and it was protected by the case |
| | | By Amazon Customer on July 19, 2016 |
| | | ⌄ See more answers (1) |

See more answered questions (176)

## 2,546 customer reviews

★★★★☆ 3.9 out of 5 stars ⌄

| | | |
|---|---|---|
| 5 star | | 63% |
| 4 star | | 15% |
| 3 star | | 5% |
| 2 star | | 6% |
| 1 star | | 11% |
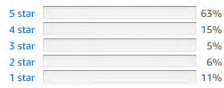
### By feature

| | | |
|---|---|---|
| Sleep mode | ★★★★★ | 4.8 |
| Easy to hold | ★★★★½ | 4.4 |
| Battery life | ★★★★½ | 4.3 |

⌄ See more

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| reliable review based | return for a fair | user experience | based on my user |
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| reduced price | price in return | battery life | trent product at a reduced |
|---|---|---|---|

Top Reviews ⌄

**KCfaninSTL**

★★★★☆ **Amount of time researching iPad Air 2 case greater than reading War and Peace 3x**
June 26, 2016
**Verified Purchase**

Using the advice of previous reviews, I decided to "take a chance" on this keyboard for iPad Air 2. I am going to focus on key points I was concerned with during my search for new keyboard/cover.

I air travel a lot. So weight and size are a main concern since this will be riding with my carryon that already has an 11" work laptop and all my power needs. BUT I also wanted a keyboard to use my instant on and connected iPad to answer emails and consume media during my travels and seat time in airports and planes.

How heavy is it?
According to a palm scale I have; the airbender, without iPad, weighed 502.8 grams. Which according to Siri is 1.11

According to a palm scale I have, the airbender, without iPad, weighed 502.8 grams, which according to Siri is 1.11 lbs. The detachable top portion weighed in at 106 grams or 0.23lbs.

What is profile when closed?
The attached pictures are showing product laying on top of and perfectly squared up with my macbook pro 13". Although the photos appear as though the airbender is hanging over the mac, it is perfectly squared. Optical illusion apparently.

˅ Read more

486 people found this helpful

| Helpful | Comment | Report abuse |

**Bettina**

★☆☆☆☆ **Buying this product = shooting yourself in the foot.**
July 31, 2017
Verified Purchase
TTTTTTTTTTTTTTTTTTTTTTThis keyboard sucks. I'm writing this review on said keyboard, and not editing the mistakes it makes. It has an annoying habit of adding Extra keystrokes,,, which results in your having to waste an incredible amount of time in editing, which defeats the whole purpose of having a bluetooth keyboard in the first place...... The whhhhole reason I want a bluetooth Keyboard for my iPad is So I can save time and ttype more Quickly thaan I would be Able to if I were having to use the hunt-and-peck method required by the touch--screen keyboard. Bbut when the Bluetooth keyboard has a mind of its own,,, And doesn"t do what you ask it to, it becomes a time-waster Rather thhhan a time-saver... I am ppast the return window for this puurchasssse, Which sucks, but I'm definitely replacing this piece of junk pooost haste.

33 people found this helpful

| Helpful | Comment | Report abuse |

**JCG**

★☆☆☆☆ **Great case...Then keyboard issues:-((**
January 6, 2016
I was given the opportunity by New Trent to purchase this Airbender Star keyboard case at a very nominal price for my honest review.

This keyboard case by New Trent is a very well designed, very user-friendly keyboard case. I will use this for my iPad Air1. I originally owned the Airbender keyboard case for my iPad Air1, which is also a very fine product, however, this Airbender Star case is even better. I am an airline pilot, and the only computing device I take on my travels is my iPad, and paired with this keyboard case makes it all I need when I am on the road for several days. The set up is quick and easy. The iPad slips easily into the case and snaps into place, and stays secure. The ports for everything line up perfectly. The keyboard has very well-spaced keys that are comfortable to use and very responsive. It also has several special function keys (Home button, brightness controls, iPad keyboard callup

responsive. It also has several special function keys (Home button, brightness controls, iPad keyboard callup, cut/copy/paste, video
start/pause, fwd/bkwd, audio volume, control/option/command) that make using your iPad from the keyboard an even better experience, and overall is very "AppleEsque". The keyboard pairs very easily and quickly with the iPad, and I have never had the bluetooth connection fail. I have only had this case for about 10 days, and the keyboard still holds the original charge with daily use. Because it's only been 10 days, it is hard to tell how long it will stay

∨ Read more

196 people found this helpful

| Helpful | | Comment | Report abuse |

Sandee

★★★★★ **Super Happy with the Keyboard**
October 21, 2016
**Verified Purchase**

Ok first let me say I have used Logitec and Anker and I use my keyboard allot! I have to say so far this is hands down my favorite so far. Reasonably priced, good feel, I love the extra button like Keyboard, copy, paste, cut all really handy with an ipad. I like the tilt up position and that it will still clamshell like my Logitec and anker. Also customer service was wonderful then got back to me in a couple hours as my keyboard was not staying connected. An Ipad reboot fixed that and I was back to a couple taps on the keys to get it going, which I have had with all the keyboards I have owned. I have only had it a day but so far I am super happy with it.

18 people found this helpful

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# iPad Pro

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The **iPad Pro** family is a line of iPad tablet computers designed, developed, and marketed by Apple Inc., that runs the iOS mobile operating system. Its current generation is available in two screen sizes, 11-inch (28 cm) and 12.9-inch (33 cm),[12] each with four options for internal storage capacities: 64, 256, 512 GB, or 1 TB.

The first iPad Pro, the 12.9-inch version, was announced on September 9, 2015[13] and released on November 11, 2015.[14] It is larger than all previous iPad models and the first iPad tablet to feature LPDDR4 RAM.[1] The 12.9-inch tablet was later followed by the smaller 9.7-inch version, which was announced on March 21, 2016, and released on March 31 that same year.[15]

On June 5, 2017, the second generation iPad Pro was announced, which features A10X Fusion processors, with basic storage of 64 GB, and optional 512 GB. Upgraded displays include a new 10.5-inch version to replace the 9.7-inch model, while the 12.9-inch version was refreshed.[16] Following this announcement, both models of the first generation iPad Pro were discontinued.

The third generation of iPad Pro was announced on October 30, 2018. It is available in two screen sizes: 11-inch (28 cm) and 12.9-inch (33 cm). They feature full screen displays, with the 11-inch model replacing the 10.5-inch model of the previous generation. They also feature up to 1 TB of storage and Face ID which works in both vertical and horizontal orientations, a feature that does not apply to iPhones with Face ID. The third generation does not feature a home button.

| Contents [hide] |
|---|

**iPad Pro**

## iPad Pro



First generation 12.9" iPad Pro in Gold

| | |
|---|---|
| Developer | Apple Inc. |
| Manufacturer | Foxconn (under contract) |
| Product family | iPad |
| Type | Tablet computer |
| Release date | November 11, 2015   [show] |
| Discontinued | June 5, 2017 (12.9-inch 1G and 9.7-inch)<br>October 30, 2018 (12.9 inch 2G)<br>March 18, 2019 (10.5-inch 2G) |
| Operating system | iOS |
| System-on-chip used | Chips used   [show] |
| CPU | CPU   [show] |
| Memory | Memory   [show] |

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## First generation   [ edit ]

The 12.9-inch version of the iPad Pro was announced during an Apple Special Event on September 9, 2015. It was released on November 11, 2015 with gold, silver, and space gray color options. Prices ranging from US$799.99 to $1,229.99 based on storage size and cellular connectivity. On March 21, 2016, the 9.7 inch version of the iPad Pro was announced at an Apple keynote with an additional rose gold color option. The 9.7 inch version also introduced the ability to choose base 32GB Model with Cellular + WiFi option. (Previously, Cellular + WiFi option was only available on 128GB iPad Pro models.) The 9.7 inch model is priced from $599 to $1,129 depending on the configuration. It was released on March 31, 2016.

The 9.7-inch iPad Pro, when compared to the iPad Air 2, features a faster CPU, a better camera, and is the first iPad to feature True Tone Flash and Retina Flash. It also had the highest storage for an iPad at the time with a 256 GB storage option and has a True Tone display, which allows the LCD to adapt to ambient lighting to change its color and intensity in different environments.[15]

Both iPad Pro models include the A9X chip and the Apple M9 motion co-processor. The 9.7 inch model, however, has a slightly underclocked CPU (2.16 GHz compared to 2.26 GHz on the 12.9 inch model) and only 2 GB of RAM. A number of features are carried over from the standard iPad, such as Touch ID and the Retina Display. New features include a smart connector for a keyboard and four stereo speakers located in pairs on top and bottom of the device. The 12.9 inch model has a 2732-by-2048 Retina Display at 264 pixels per inch, and the 9.7 inch model has a 2048-by-1536 Retina Display at 264 pixels per inch and features a variable refresh rate, a first for Apple. The 12.9 inch version of the iPad Pro is the first iPad to include 4 GB of RAM.

A customized 12.9 inch iPad Pro was also designed by Jony Ive and submitted to the Time for Design auction. The special edition iPad Pro has an "Edition 1 of 1" label engraved on its back and comes with a custom yellow-gold anodised finish, a blue leather Smart Cover and an orange leather Apple Pencil case cover, all of which are not sold by Apple elsewhere.[17][18]

## Second generation   [ edit ]

The second generation of iPad Pro was announced on June 5, 2017 alongside iOS 11 at the 2017 WWDC. The second-generation iPad Pro models, at 10.5-inch and 12.9-inch, have an A10X hexa-core CPU and with a 12-core GPU, Apple's ProMotion display technology which supports HDR10 and Dolby Vision content (with iOS 11 or later) with a 120 Hz refresh rate and their True Tone display is 50 percent brighter than the earlier models; both sizes also have a 12-megapixel rear-facing camera with quad-LED True-Tone flash and a 7-megapixel front-facing camera with Retina Flash.[16] They have USB-C connection speeds using Lightning cables, with USB-C fast-charge support.[19] The second generation iPad Pro has storage capacities up to 512 GB.

On March 18, 2019, the 10.5 inch iPad Pro was discontinued and replaced by a 10.5 inch iPad Air.

## Third generation   [ edit ]

The third generation of iPad Pro was announced on October 30, 2018,[20][21] during an Apple Special Event at the Howard Gilman Opera House in Brooklyn, New York. The redesigned 2018 models feature new edge-to-edge Liquid Retina displays, Face ID, improved 12MP and 7MP cameras, USB-C connectors, and Apple A12X Bionic processors. The tablets are offered in 11-inch and 12.9-inch sizes, and are the first iPad models to offer tap-to-wake LCD displays (following the iPhone X[22]), and up to 1TB of internal storage. Additionally, the third generation tablets lack both Touch ID and a headphone jack; the former having been superseded by Face ID.[23][24] They were released on November 7, 2018 and are only available in silver and space gray.

## Accessories   [ edit ]

There are four accessories made specifically for iPad Pro, all of which are sold separately: a "smart" screen cover; an attachable keyboard, Smart Keyboard; an active bluetooth tracking stylus, Apple Pencil; and a form-fitted silicone case that is compatible with the Smart Keyboard.[25]

| | |
|---|---|
| **Storage** | 32, 64, 128, 256, 512 GB or 1 TB[3] flash memory |
| **Display** | **12.9-inch:** 2732×2048 px (264 PPI) (IPS panel) (5.5 megapixels), 12.9 in (327.8 mm) diagonal, 4:3[3] <br> **9.7-inch:** 2048×1536 px (264 PPI) (IPS panel) (3.1 megapixels), 9.7 in (246.3 mm) diagonal, 4:3[3] <br> **10.5-inch:** 2224×1668 px (264 PPI) (IPS Panel), 10.5 in diagonal, 4:3[3] <br> **11-inch:** 2388×1668 px (264 PPI) (IPS Panel), 11 in diagonal, 1.43:1 [3][4] |
| **Graphics** | 12-core PowerVR Series 7XT[5] |
| **Sound** | Four speakers, adjusting sound to device orientation |
| **Input** | Multi-touch screen, headset controls and ambient light sensors, 3-axis accelerometer, 3-axis gyroscope, digital compass, five microphones, Bosch Sensortec BMP280 barometer |
| **Camera** | **12.9-inch 1G:** 1.2 megapixels 720p front-facing and 8 megapixels rear-facing[8] <br> **9.7-inch:** 5 megapixels 720p front-facing and 12 megapixels 4K rear-facing[3] <br> **12.9-inch 2G and 10.5-inch:** 7 megapixels 1080p front-facing and 12 megapixels 4K rear-facing, Optical & Digital Image Stabilization[3] <br> **12.9-inch 3G and 11-inch:** 7 megapixels 1080p front-facing TrueDepth and 12 megapixels 4K rear-facing, Digital Image Stabilization[3] |
| **Connectivity** | **Wi-Fi and Wi-Fi + Cellular:** Wi-Fi 802.11 a/b/g/n/ac; dual channel (2.4 GHz and 5 GHz); HT80 with MIMO[3] |

active bluetooth tracking stylus, Apple Pencil, and a form-fitted silicone case that is compatible with the Smart Keyboard.

### Smart Keyboard   [ edit ]

Smart Keyboard docks with iPad Pro using the Smart Connector, a magnetic connection that provides data transfer and power. Smart Keyboard, which doubles as a kickstand, is comparable to that of the competing Microsoft Surface Pro.[26] The design of the Smart Keyboard is similar to the design of the Smart Cover accessory.[27]

### Apple Pencil (first generation)   [ edit ]

*Main article: Apple Pencil*


iPad Pro and Apple Pencil (in boxes)

The first generation Apple Pencil is a precision stylus exclusive to the iPad Pro, iPad 2018, and the iPad Air and iPad Mini released in 2019. The accessory is rechargeable via the Lightning port on the tablet itself.[28][29] iPad Pro introduces a new display with increased responsiveness and precision over previous iPad displays with Apple Pencil support added.[30][31] During the keynote, Apple demonstrated drawing, managing publication layout, and document annotation.[32][33][34]

### Apple Pencil (second generation)   [ edit ]


iPad Pro and second generation Apple Pencil (left)

The second generation Apple Pencil, heavily based on its predecessor, functions exclusively with the 2018 iPad Pro models.[35] Its new features include gesture controls and wireless magnetic charging and pairing.

## Reception   [ edit ]

### General reviews   [ edit ]

The iPad Pro's 9.7-inch version set a record among all currently released tablets tested in color accuracy, screen reflectance, peak brightness, contrast rating in high ambient light, and smallest color variation. However, the iPad Pro 12.9-inch version tested to having better contrast ratio in the dark.[36]

| | |
|---|---|
| | HT80 with MIMO <br> Bluetooth 4.2[3] <br> **Wi-Fi + Cellular:** <br> GPS & GLONASS[3] <br> **GSM:** UMTS / HSDPA (850, 900, 1700, 1900, 2100 MHz[3]) · GSM / EDGE (850, 900, 1800, 1900 MHz[3]) <br> **CDMA:** CDMA/EV-DO Rev. A and B. (800, 1900 MHz[3]) <br> **12.9-inch Wi-Fi + Cellular:** <br> **LTE:** Multiple bands (1, 2, 3, 4, 5, 7, 8, 13, 17, 18, 19, 20, 25, 26, 28, 29 and TD-LTE 38, 39, 40, 41[3]) <br> **9.7-inch Wi-Fi + Cellular:** <br> **LTE Advanced:** Multiple bands (1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 27, 28, 29, 30 and TD-LTE 38, 39, 40, 41 [3]) |
| Power | **Built-in rechargeable**   [show] <br> **lithium-ion battery** |
| Online services | App Store, Apple Music, iTunes Store, iBookstore, iCloud, Game Center |
| Dimensions | **12.9-inch:** <br> 305.7 mm (12.04 in) *(h)* <br> 220.6 mm (8.69 in) *(w)* <br> 6.9 mm (0.27 in) *(d)* <br><br> **12.9-inch (2018):** <br> 280.6 mm (11.05 in) *(h)* <br> 214.6 mm (8.45 in) *(w)* <br> 5.9 mm (0.23 in) *(d)* <br> **9.7-inch:** <br> 240 mm (9.4 in) *(h)* <br> 169.5 mm (6.67 in) *(w)* <br> 6.1 mm (0.24 in) *(d)* <br> **10.5-inch:** <br> 250.6 mm (9.87 in) *(h)* <br> 174.1 mm (6.85 in) *(w)* <br> 6.1 mm (0.24 in) *(d)* <br> **11-Inch:** <br> 247.6 mm (9.75 in) *(h)* <br> 178.5 mm (7.03 in) *(w)* <br> 5.9 mm (0.23 in) *(d)* |
| Mass | **12.9-inch Wi-Fi:** |

high ambient light, and smallest color variation. However, the iPad Pro 12.9-inch version tested to having better contrast ratio in the dark.

Despite Apple advertising the tablets as PC replacements,[37] most reviewers noted that it could not replace a laptop running the Microsoft Windows, macOS, or Linux desktop operating systems.[38][39][40]

### First generation reviews  [ edit ]

Scott Stein from CNET praised the faster processor and new accessories available. However, he criticized the cost of both the unit and its accessories, while noting its slightly slower processor with less RAM compared to the larger 12.9-inch model.[41] Matt Swider from TechRadar complimented the easy handling, large 256GB configuration and True Tone display, but was upset about the high starting price.[42] Gareth Beavis gave a positive review, commending the expansive screen and audio quality but stated that the battery life could be made longer.[43]

### Second generation reviews  [ edit ]

Max Parker from TrustedReviews and Gareth Beavis from TechRadar both praised the 10.5-inch model's high-quality audio and performance, though both critics noted that it was expensive.[44][45]

Reviewing the 12.9 inch second-generation iPad Pro, Lauren Goode of The Verge complimented the quality camera, A10X processor and large screen size, but argued that the device could have been cheaper.[46]

### Third generation reviews  [ edit ]

The third generation iPad Pro models were praised for their better displays, slimmed bezels, and general speed as well as CPU improvements. Ben Sin from Forbes noted that although the screen is still an LCD screen, the 120 Hz refresh rate makes it feel more smooth.[47] The switch to USB-C connectors received mixed reviews; external monitor support and device charging were added at the cost of extra dongles to use older cables and headphones.[48] Some reviewers noted that although the hardware updates are great steps forward, iOS's limitations including the lack of external storage capabilities prevents the third generation from competing against computers. Its high prices were also criticized.[49][50]

### Durability issues  [ edit ]

Moreover, the body has been criticized for its ability to bend and break easily. Users on forum boards have reported the iPad bending after a few days of use, or after carrying it around in a backpack. YouTuber Zack Nelson then published a video on his channel JerryRigEverything showing the device cracking and snapping in half after applying just a small amount of pressure with his hands in the center of the device.[51][52] Nelson conluded that the "two weakest points [were] right dead center on either side of the iPad Pro, [and] the crack happened at the very poorly placed microphone hole and the new Apple Pencil 2 charging duct".[53] Reports of devices already bent right out of the box (most of these devices are cellular models) also surfaced. Apple responded to these reports quickly, asserting that this is normal and a non-issue,[54] a response that has been criticized.[55][56] According to Apple, the bending is a byproduct of their new manufacturing process. Apple has added a support page relating to these issues.[57]

## Model comparison  [ edit ]

| Legend: | Discontinued | Current |
| --- | --- | --- |

| Model | iPad Pro (1st generation) | | iPad Pro (2nd generation) | | iPad Pro (3rd generation) | |
| --- | --- | --- | --- | --- | --- | --- |
| Screen Size | 12.9-inch | 9.7-inch | 12.9-inch | 10.5-inch | 12.9-inch | 11-inch |
| |  |  |  |  | |  |

Sidebar / infobox:

713 g (1.572 lb)
**12.9-inch Wi-Fi + Cellular:**
723 g (1.594 lb)
**12.9-inch (2018) Wi-Fi:**
631 g (1.391 lb)
**12.9-inch (2018) Wi-Fi + Cellular:**
633 g (1.396 lb)
**9.7-inch Wi-Fi:**
437 g (0.963 lb)
**9.7-inch Wi-Fi + Cellular:**
444 g (0.979 lb)
**10.5-inch WiFi:** 469 g (1.034 lb)
**10.5-inch WiFi + Cellular:**
477 g (1.052 lb)
**11-inch WiFi and WiFi + Cellular:**
468 g (1.032 lb)

| Related articles | Apple Pencil, Apple A9X, Apple A10X, Apple A12X Bionic |
| --- | --- |
| Website | www.apple.com/ipad-pro/ |

This article is part of a series on the
**iPad**
1st · 2 · 3rd · 4th · 2017 · 2018
Air (1st · 2 · 2019)
Mini (1st · 2 · 3 · 4 · 2019)
**Pro** (1st · 2nd · 3rd)
List of iPad models
V · T · E

| | | | | | | |
|---|---|---|---|---|---|---|
| **Image** |  |  |  |  | |  |
| **Initial operating system** | iOS 9.1 | iOS 9.3 | iOS 10.3.2[58] | | iOS 12.1 | |
| **Highest supported operating system** | iOS 12.2 | | | | | |
| **Model Number[59][60]** | A1584 (Wi-Fi)<br>A1652 (Wi-Fi + Cellular) | A1673 (Wi-Fi)<br>A1674 or A1675 (Wi-Fi + Cellular) | A1670 (Wi-Fi)<br>A1671 (Wi-Fi + Cellular) | A1701 (Wi-Fi)<br>A1709 (Wi-Fi + Cellular) | A1876 (Wi-Fi)<br>A1895, A2014 (Wi-Fi + Cellular)<br>A1983 (Wi-Fi + Cellular, China model)[61] | A1980 (Wi-Fi)<br>A1934, A2013 (Wi-Fi + Cellular)<br>A1979 (Wi-Fi + Cellular, China model)[61] |
| **Announcement date** | September 9, 2015 | March 21, 2016 | June 5, 2017 | | October 30, 2018 | |
| **Release date** | November 11, 2015 | March 31, 2016 | June 13, 2017[62] | | November 7, 2018 | |
| **Launch price** | Wi-Fi models:<br>32 GB – US$799<br>128 GB – US$949<br>256 GB – US$1,099<br>Wi-Fi + Cellular models:<br>128 GB – US$1,079<br>256 GB – US$1,229 | Wi-Fi models:<br>32 GB – US$599<br>128 GB – US$749<br>256 GB – US$899<br>Wi-Fi + Cellular models:<br>32 GB – US$729<br>128 GB – US$879<br>256 GB – US$1,029 | Wi-Fi models:<br>64 GB – US$799<br>256 GB – US$899<br>512 GB – US$1,099<br>Wi-Fi + Cellular models:<br>64 GB – US$929<br>256 GB – US$1,029<br>512 GB – US$1,229 | Wi-Fi models:<br>64 GB – US$649<br>256 GB – US$749<br>512 GB – US$949<br>Wi-Fi + Cellular models:<br>64 GB – US$779<br>256 GB – US$879<br>512 GB – US$1,079 | Wi-Fi models:<br>64 GB – US$999<br>256 GB – US$1,149<br>512 GB – US$1,349<br>1 TB – US$1,749<br>Wi-Fi + Cellular models:<br>64 GB – US$1,149<br>256 GB – US$1,299<br>512 GB – US$1,499<br>1 TB – US$1,899 | Wi-Fi models:<br>64 GB – US$799<br>256 GB – US$949<br>512 GB – US$1,149<br>1 TB – US$1,549<br>Wi-Fi + Cellular models:<br>64 GB – US$949<br>256 GB – US$1,099<br>512 GB – US$1,299<br>1 TB – US$1,699 |
| **SoC** | Apple A9X | | Apple A10X Fusion | | Apple A12X Dionic | |
| **Motion coprocessor** | Apple M9 | | Apple M10 | | Apple M12 | |
| **CPU** | 2.26 GHz dual-core Apple Twister[1] | 2.26 GHz dual-core Apple Twister (underclocked to 2.16 GHz) | ~2.36 GHz hexa-core Apple Fusion (3× Hurricane + 3× Zephyr)[63] | | 7 nm, Octa-core SOC; 4x Vortex performance cores + 4x Tempest efficiency cores | |
| **GPU** | 12-core PowerVR Series 7XT[9] | | | | 7-core GPU | |
| **Memory** | 4 GB LPDDR4 RAM[1] | 2 GB LPDDR4 RAM | 4GB LPDDR4 RAM[64] | | 64/256/512 GB - 4 GB LPDDR4X RAM<br>1 TB - 6 GB LPDDR4X RAM [65][66] | |
| **Display** | 12.9 inches (330 mm) [diagonal] multi-touch display with LED backlighting and an oleophobic, fingerprint and scratch-resistant coating, Fully laminated display, Antireflective coating | 9.7 inches (250 mm) [diagonal] multi-touch display with LED backlighting and an oleophobic and scratch-resistant coating, Wide color display, True Tone display, Fully laminated display, Antireflective coating | 12.9 inches (330 mm) [diagonal] multi-touch display with LED backlighting and an oleophobic and scratch-resistant coating, Wide color display, True Tone display, Fully laminated display, Antireflective coating, ProMotion display (120 Hertz | 10.5 inches (270 mm) [diagonal] multi-touch display with LED backlighting and an oleophobic and scratch-resistant coating, Wide color display, True Tone display, Fully laminated display, Antireflective coating, ProMotion display (120 Hertz | 12.9 inches (330 mm) [diagonal] Liquid Retina Display and an oleophobic and scratch-resistant coating, Wide color display, True Tone display, Fully laminated display, Antireflective coating, ProMotion display (120 Hertz refresh rate) | 11 inches (280 mm) [diagonal] Liquid Retina Display and an oleophobic and scratch-resistant coating, Wide color display, True Tone display, Fully laminated display, Antireflective coating, ProMotion display (120 Hertz refresh rate) |

| | | | | ProMotion display (120 Hz refresh rate) | ProMotion display (120 Hz refresh rate) | (refresh rate) | (refresh rate) |
|---|---|---|---|---|---|---|---|
| | | 2732-by-2048 pixel resolution at 264 ppi (Retina Display) | 2048-by-1536 pixel resolution at 264 ppi (Retina Display) | 2732-by-2048 pixel resolution at 264 ppi (Retina Display) | 2224-by-1668 pixel resolution at 264 ppi (Retina Display) | 2732-by-2048 pixel resolution at 264 ppi (Retina Display) | 2388-by-1668 pixel resolution at 264 ppi (Retina Display) |
| **Camera** | **iSight** | 8 MP, $f$/2.4 aperture, HDR for photos, Autofocus, five-element lens, Hybrid IR filter, Backside illumination, Face Detection, Exposure control, Panorama (up to 43 MP), Burst mode, Tap to focus, Photo geotagging, Timer mode, Video Recording, 1080p video recording (30 fps), Slo-mo video support for 720p at 120 fps, Time-lapse video, Video image stabilization, 3× digital zoom, Video geotagging | 12 MP, $f$/2.2 aperture, Auto HDR for photos, five-element lens, Hybrid IR filter, Backside illumination, Autofocus with Focus Pixels, Improved face detection, Exposure control, Panorama (up to 63 MP), Burst mode, Tap to focus, Photo geotagging, Timer mode, Video Recording, Cinematic video stabilization, 4K video recording (30 fps), 1080p HD video recording at 30 fps or 60 fps, Slo-mo video support for 1080p at 120 fps and 720p at 240 fps, Time-lapse video, 3× digital zoom, Live Photos, True Tone LED flash, Sapphire crystal lens cover, Improved local tone mapping, Improved noise reduction, Video geotagging | 12 MP, $f$/1.8 aperture, Auto HDR for photos, Autofocus with Focus Pixels, six-element lens, Hybrid IR filter, Backside illumination, Improved face detection, Exposure control, Panorama (up to 63 MP), Burst mode, Tap to focus, Photo and video geotagging, Timer mode, Video Recording, Cinematic video stabilization, 4K video recording (30 fps), 1080p HD video recording at 30fps or 60fps, Slo-mo video support for 1080p at 120 fps and 720p at 240 fps, Time-lapse video, 3× digital zoom, True Tone LED flash, Sapphire crystal lens cover, improved local tone mapping, improved noise reduction | | 12-megapixel camera, $f$/1.8 aperture, up to 5x digital zoom, five-element lens, quad-LED True Tone flash, panorama (up to 63 MP), backside illumination sensor, hybrid IR filter, autofocus with Focus Pixels, tap to focus with Focus Pixels, Live Photos with stabilization, wide color capture for photos and Live Photos, improved local tone mapping, exposure control, improved noise reduction, smart HDR for photos, photo geotagging, 4K video recording at 30 fps or 60 fps, 1080p HD video recording at 30 fps or 60 fps, 720p HD video recording at 30 fps, slo-mo video support for 1080p at 120 fps and 720p at 240 fps, time-lapse video with stabilization, cinematic video stabilization (1080p and 720p), continuous autofocus video, playback zoom | |
| | **FaceTime** | 1.2 MP, $f$/2.2 aperture, 720p HD video recording, Auto HDR for photos and videos, Backside illumination, Exposure control, Burst mode, Timer mode and Face Detection | 5 MP, $f$/2.2 aperture, 720p HD video recording, Retina Flash, Auto HDR for photos and videos, Backside illumination, Exposure control, Burst mode, Timer mode and Face Detection | 7 MP $f$/2.2 aperture, 1080p HD video recording, Auto HDR for photos and videos, Backside illumination, Exposure control, Burst mode, Timer mode and Face Detection | | 7 MP, Portrait mode, Portrait Lighting, Animoji and Memoji, 1080p HD video recording at 30 or 60 fps, Retina Flash, $f$/2.2 aperture, Wide color capture for photos and Live Photos, Smart HDR, Backside illumination, Auto image stabilization, Exposure control, Burst mode, Timer mode (Face ID supported) | |
| | **Wi-Fi** | Wi-Fi (802.11a/b/g/n/ac); dual channel (2.4 GHz and 5 GHz); HT80 with MIMO<br><br>Bluetooth 4.2 technology | | | | Wi-Fi (802.11a/b/g/n/ac); dual channel (2.4 GHz and 5 GHz); HT80 with MIMO<br><br>Bluetooth 5.0 technology | |
| **Wireless** | **Wi-Fi + Cellular** | Above plus:<br><br>UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz), CDMA EV-DO Rev. A and Rev. B (800, 1900 MHz), LTE (Bands 1, 2, 3, 4, 5, 7, 8, 13, 17, 18, 19, 20, 25, 26, 28, 29, 38, 39, 40, 41), Data only, Includes Apple SIM (U.S., UK, and Germany | Above plus:<br><br>UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz), CDMA EV-DO Rev. A and Rev. B (800, 1900 MHz), LTE Advanced (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 27, 28, 29, 38, 39, 40, 41), Data only, Embedded Apple SIM | | | Above plus:<br>• UMTS/HSPA/HSPA+/DC–HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)<br>• Gigabit-class LTE (Models A2013 and A2014: bands 1, 2, 3, 4, 5, 7, 8, 11, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 29, 30, 34, 38, 39, 40, 41, 46, 66, 71)<br>• Data only<br>• Wi-Fi calling<br>• eSIM[87] | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | SIM (U.S., UK, and Germany only) | | | | | • eSIM |
| **Geolocation** | **Wi-Fi models** | • Wi-Fi<br>• Apple location databases<br>• iBeacon microlocation | | | | | • Digital compass<br>• Wi-Fi<br>• iBeacon microlocation[87] |
| | **Wi-Fi + Cellular models** | Above plus:<br>• Assisted GPS<br>• GLONASS<br>• Cellular network | | | | | • Assisted GPS, GLONASS, Galileo, and QZSS<br>• Cellular[A7] |
| **Environmental sensors** | | • Accelerometer<br>• Gyroscope<br>• Ambient light sensor<br>• Magnetometer<br>• Barometer | | | | | |
| **Battery** | | 3.77 V 38.8 W·h (10307mA·h) rechargeable lithium-polymer battery[6] | 3.82 V 27.91 W·h (7306mA·h) rechargeable lithium-polymer battery[88] | 3.77 V 41 W·h (10875mA·h) rechargeable lithium-polymer battery[89] | 3.77 V 30.8 W·h (8134mA·h) rechargeable lithium-polymer battery[54] | 3.76 V 36.55 W·h (9720 mA·h) rechargeable li-ion battery[70] | 3.77 V 29.45 W·h (7812mA·h) rechargeable li-ion battery[71] |
| **Dimensions** | | 305.7 mm (12.04 in) *(h)*<br>220.6 mm (8.69 in) *(w)*<br>6.9 mm (0.27 in) *(d)* | 240 mm (9.4 in) *(h)*<br>169.5 mm (6.67 in) *(w)*<br>6.1 mm (0.24 in) *(d)* | 305.7 mm (12.04 in) *(h)*<br>220.6 mm (8.69 in) *(w)*<br>6.9 mm (0.27 in) *(d)* | 250.6 mm (9.87 in) *(h)*<br>174.1 mm (6.85 in) *(w)*<br>6.1 mm (0.24 in) *(d)* | 280.6 mm (11.05 in) *(h)*<br>214.9 mm (8.46 in) *(w)*<br>5.9 mm (0.23 in) *(d)* | 247.6 mm (9.75 in) *(h)*<br>178.5 mm (7.03 in) *(w)*<br>5.9 mm (0.23 in) *(d)* |
| **Weight** | | Wi-Fi model: 710 g (1.57 lb)<br>Wi-Fi + Cellular model: 720 g (1.59 lb) | Wi-Fi: 437 g (0.963 lb)<br>Wi-Fi + Cellular: 444 g (0.979 lb) | Wi-Fi model: 677 g (1.493 lb)<br>Wi-Fi + Cellular model: 692 g (1.520 lb) | Wi-Fi: 469 g (1.034 lb)<br>Wi-Fi + Cellular 477 g (1.052 lb) | Wi-Fi: 631 g (1.391 lb)<br>Wi-Fi + Cellular 633 g (1.396 lb) | 468 g (1.032 lb) |
| **Mechanical keys** | | • Home button<br>• Sleep/Wake<br>• Volume control | | | | • Sleep/Wake<br>• Volume control | |
| **Connectors** | | • Lightning Connector<br>• Apple Smart Connector<br>• 3.5 mm audio jack connector | | | | • USB-C<br>• Apple Smart Connector<br>• Apple Magnetic Connector (Apple Pencil) | |
| **Speakers** | | Quad stereo | | | | | |
| **Greenhouse gas emissions** | | 240 kg CO$_2$e[72] | 210 kg CO$_2$e[73] | 122 kg CO$_2$e[74] | 100 kg CO$_2$e[75] | 136 kg CO$_2$e[76] | 113 kg CO$_2$e[77] |

## Timeline [ edit ]

iPad (1st) 16 GB   iPad 2 16 GB
32 GB   32 GB

*Source: Apple Newsroom Archive*[78]

## See also   [ edit ]

- Pen computing
- Graphics tablet

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## External links   [ edit ]

- Official website⊕

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Categories:  IPad | IOS | Tablet computers | Touchscreen portable media players | Tablet computers introduced in 2015 | Foxconn

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3741031

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2010/01/19

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CALIFORNIA 95014

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Class Status -- ACTIVE. IC 009. US 021 023 026 036 038. G & S:
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4155659

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Class Status -- ACTIVE. IC 009. US 021 023 026 036 038. G & S:
Accessory for a handheld mobile digital electronic device that
functions as a protective and decorative cover and a stand. First
Use: 2011/03/11. First Use In Commerce: 2011/03/11.

**Foreign Country Name**
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5179231

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**Goods/Services**
Class Status -- ACTIVE. IC 009. US 021 023 026 036 038. G & S:
electrical and electronic connectors sold as an integral component of
handheld mobile computers and keyboards. First Use: 2015/09/09.
First Use In Commerce: 2015/11/11.

**Foreign Country Name**
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**Foreign Priority**
FOREIGN PRIORITY CLAIMED

**Foreign Application Number**
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