

Documentation



iPad (6th generation) - Technical Specifications

Finish

- Silver
- Gold
- Space Gray

Capacity¹

- Wi-Fi
 - 32GB
 - 128GB
- Wi-Fi + Cellular
 - 32GB
 - 128GB

Size and Weight²

- Wi-Fi
 - Height: 9.4 inches (240 mm)
 - Width: 6.6 inches (169.5 mm)
 - Depth: 0.29 inch (7.5 mm)
 - Weight: 1.03 pounds (469 g)
- Wi-Fi + Cellular
 - Height: 9.4 inches (240 mm)
 - Width: 6.6 inches (169.5 mm)
 - Depth: 0.29 inch (7.5 mm)
 - Weight: 1.05 pounds (478 g)

Buttons and Connectors

- Home/Touch ID sensor
- Stereo speakers
- Lightning connector
- 3.5 mm headphone jack
- On/Off - Sleep/Wake
- Volume up/down

- Nano-SIM tray (cellular models)

Connector

- Lightning

In the Box

- iPad
- Lightning to USB Cable
- USB Power Adapter

Display

- Retina display
- 9.7-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2048-by-1536-pixel resolution at 264 ppi
- Fingerprint-resistant oleophobic coating
- Supports **Apple Pencil (1st generation)**

Chip

- A10 Fusion chip with 64-bit architecture
- Embedded M10 coprocessor

Camera

- 8-megapixel camera
- Live Photos
- Autofocus
- Panorama (up to 43 megapixels)
- HDR for photos
- Exposure control
- Burst mode
- Tap to focus
- Timer mode
- $f/2.4$ aperture
- Five-element lens
- Hybrid IR filter
- Backside illumination
- Auto image stabilization
- Body and face detection
- Photo geotagging

Video Recording

- 1080p HD video recording
- Slo-mo (240 fps)
- Time-lapse video with stabilization
- Video image stabilization
- Body and face detection
- 3x video zoom
- Video geotagging

FaceTime HD Camera

- 1.2-megapixel photos

- Live Photos
- $f/2.2$ aperture
- Retina Flash
- 720p HD video recording
- Backside illumination
- HDR for photos and videos
- Body and face detection
- Burst mode
- Exposure control
- Timer mode

Video Calling³

- Wi-Fi
 - FaceTime video
 - iPad to any FaceTime-enabled device over Wi-Fi
- Wi-Fi + Cellular
 - FaceTime video
 - iPad to any FaceTime-enabled device over Wi-Fi or cellular

Audio Calling³

- Wi-Fi
 - FaceTime audio
 - iPad to any FaceTime-enabled device over Wi-Fi
- Wi-Fi + Cellular
 - FaceTime audio
 - iPad to any FaceTime-enabled device over Wi-Fi or cellular

Cellular and Wireless

- **Wi-Fi model**
 - Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO
 - Bluetooth 4.2 technology
- **Wi-Fi + Cellular model**
 - Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO
 - Bluetooth 4.2 technology
 - UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)
 - CDMA EV-DO Rev. A (800, 1900 MHz)
 - LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 29, 30, 38, 39, 40, 41)⁴
 - Data only⁵
 - Wi-Fi calling⁴
 - [Learn more about Cellular](#)

SIM Card

- **Wi-Fi + Cellular model**
 - Nano-SIM (supports Apple SIM)
 - Includes Apple SIM

Location

- Wi-Fi
 - Digital compass
 - Wi-Fi
 - iBeacon microlocation
- Wi-Fi + Cellular model
 - Digital compass
 - Wi-Fi
 - Assisted GPS and GLONASS
 - Cellular
 - iBeacon microlocation

Sensors

- Touch ID
- Three-axis gyro
- Accelerometer
- Barometer
- Ambient light sensor

Touch ID

- Fingerprint identity sensor built into the Home button

Apple Pay

- Pay with your iPad using Touch ID within apps and on the web
- Send and receive money in Messages

[Learn more about Apple Pay.](#)

Siri⁶

- Use your voice to send messages, set reminders, and more
- Use hands-free
- Listen and identify songs

[Learn more about Siri](#)

Power and Battery⁷

- Wi-Fi
 - Built-in 32.4-watt-hour rechargeable lithium-polymer battery
 - Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music
 - Charging via power adapter or USB to computer system
- Wi-Fi + Cellular model
 - Built-in 32.4-watt-hour rechargeable lithium-polymer battery

- Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music
- Up to 9 hours of surfing the web using cellular data network
- Charging via power adapter or USB to computer system

Operating System

iOS 12

iOS is the world's most personal and secure mobile operating system, packed with powerful features that help you get the most out of every day.

[See what's new in iOS](#)

Accessibility

Accessibility features help people with disabilities get the most out of their new iPad. With built-in support for vision, hearing, physical and motor skills, and learning and literacy, you can create and do amazing things. [Learn more](#) about Accessibility

Features include:

- VoiceOver
- Zoom
- Magnifier
- Siri and Dictation
- Switch Control
- Closed Captions
- AssistiveTouch
- Speak Screen

Built-in Apps

- Camera
- Photos
- Messages
- FaceTime
- Mail
- Music
- Safari
- Maps
- Siri
- Calendar
- iTunes Store
- App Store
- Notes
- Voice Memos
- Contacts
- Books
- Home
- Reminders

- Stocks
- Clock
- TV
- News
- Photo Booth
- Podcasts
- Measure
- Find My iPhone
- Find My Friends
- Files

Free Apps from Apple

Pages, Numbers, Keynote, iMovie, GarageBand, iTunes U, Clips, and Apple Store app are preinstalled on iPad.

- Pages
- Numbers
- Keynote
- iMovie
- GarageBand
- iTunes U
- Apple Store
- Trailers
- Remote
- Music Memos
- Clips
- Swift Playgrounds
- Shortcuts
- Support

System Requirements

- Apple ID (required for some features)
- Internet access⁸

Syncing with iTunes on a Mac or PC requires:

- Mac: OS X 10.10.5 or later
- PC: Windows 7 or later
- iTunes 12.7.3 or later (free download from www.itunes.com/download)

Languages

- **Language support**
 - English (Australia, UK, U.S.), Chinese (Simplified, Traditional, Traditional Hong Kong), French (Canada, France), German, Italian, Japanese, Korean, Spanish (Latin America, Mexico, Spain), Arabic, Catalan, Croatian, Czech, Danish, Dutch, Finnish, Greek, Hebrew, Hindi, Hungarian, Indonesian, Malay, Norwegian, Polish, Portuguese (Brazil, Portugal), Romanian, Russian, Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese

- **QuickType keyboard support**

- English (Australia, Canada, India, Singapore, UK, U.S.), Chinese - Simplified (Handwriting, Pinyin, Stroke), Chinese - Traditional (Cangjie, Handwriting, Pinyin, Stroke, Sucheng, Zhuyin), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese (Kana, Romaji), Korean, Spanish (Latin America, Mexico, Spain), Arabic (Modern Standard, Najdi), Armenian, Azerbaijani, Belarusian, Bengali, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Emoji, Estonian, Filipino, Finnish, Flemish, Georgian, Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari, Transliteration), Hinglish, Hungarian, Icelandic, Indonesian, Irish, Kannada, Latvian, Lithuanian, Macedonian, Malay, Malayalam, Maori, Marathi, Norwegian, Odia, Persian, Polish, Portuguese (Brazil, Portugal), Punjabi, Romanian, Russian, Serbian (Cyrillic, Latin), Slovak, Slovenian, Swahili, Swedish, Tamil (Script, Transliteration), Telugu, Thai, Tibetan, Turkish, Ukrainian, Urdu, Vietnamese, Welsh

- **QuickType keyboard support with predictive input**

- English (Australia, Canada, India, Singapore, UK, U.S.), Chinese (Simplified, Traditional), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese, Korean, Russian, Spanish (Latin America, Mexico, Spain), Portuguese (Brazil, Portugal), Thai, Turkish

- **Siri languages**

- English (Australia, Canada, India, Ireland, New Zealand, Singapore, South Africa, UK, U.S.), Spanish (Chile, Mexico, Spain, U.S.), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (China mainland, Taiwan), Cantonese (China mainland, Hong Kong), Arabic (Saudi Arabia, United Arab Emirates), Danish (Denmark), Dutch (Belgium, Netherlands), Finnish (Finland), Hebrew (Israel), Malay (Malaysia), Norwegian (Norway), Portuguese (Brazil), Russian (Russia), Swedish (Sweden), Thai (Thailand), Turkish (Türkiye)

- **Dictation languages**

- English (Australia, Canada, India, Indonesia, Ireland, Malaysia, New Zealand, Philippines, Saudi Arabia, Singapore, South Africa, United Arab Emirates, UK, U.S.), Spanish (Argentina, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Panama, Paraguay, Peru, Spain, Uruguay, U.S.), French (Belgium, Canada, France, Luxembourg, Switzerland), German (Austria, Germany, Luxembourg, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (China mainland, Taiwan), Cantonese (China mainland, Hong Kong, Macao), Arabic (Kuwait, Qatar, Saudi Arabia, United Arab Emirates), Catalan,

Croatian, Czech, Danish, Dutch (Belgium, Netherlands), Finnish, Greek, Hebrew, Hindi (India), Hungarian, Indonesian, Malaysian, Norwegian, Polish, Portuguese (Brazil, Portugal), Romanian, Russian, Shanghainese (China mainland), Slovakian, Swedish, Thai, Turkish, Ukrainian, Vietnamese

- **Definition dictionary support**

- English, Chinese (Simplified, Traditional), Danish, Dutch, French, German, Hebrew, Hindi, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish, Thai, Turkish

- **Thesaurus**

- English (UK, U.S.)

- **Bilingual dictionary support**

- Arabic, Chinese (Simplified), Dutch, French, German, Hindi, Italian, Japanese, Korean, Portuguese, Russian, Spanish

- **Spell check**

- English, French, German, Italian, Spanish, Danish, Dutch, Finnish, Korean, Norwegian, Polish, Portuguese, Russian, Swedish, Turkish

Audio Playback

- Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3), Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV
- User-configurable maximum volume limit

TV and Video

- AirPlay Mirroring, photos, audio, and video out to Apple TV (2nd generation or later)
- Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)
- Video formats supported: H.264 video up to 4K, 30 frames per second, High Profile level 4.2 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio or Dolby Audio up to 1008 Kbps, 48kHz, stereo or multichannel audio, in .m4v, .mp4, and .mov file formats; MPEG-4 video up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio or Dolby Audio up to 1008 Kbps, 48kHz, stereo or multichannel audio, in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format

Mail Attachment Support

- **Viewable document types**
 - .jpg, .tiff, .gif (images); .doc and .docx (Microsoft Word); .htm and .html (web pages); .key (Keynote);

.numbers (Numbers); .pages (Pages); .pdf (Preview and Adobe Acrobat); .ppt and .pptx (Microsoft PowerPoint); .txt (text); .rtf (rich text format); .vcf (contact information); .xls and .xlsx (Microsoft Excel); .zip; .ics

Environmental Requirements

- Operating ambient temperature: 32° to 95° F (0° to 35° C)
- Nonoperating temperature: -4° to 113° F (-20° to 45° C)
- Relative humidity: 5% to 95% noncondensing
- Operating altitude: tested up to 10,000 feet (3000 m)

1. Available space is less and varies due to many factors. A standard configuration uses approximately 10GB to 12GB of space (including iOS and preinstalled apps) depending on the model and settings. Preinstalled apps use about 4GB, and you can delete these apps and restore them.
2. Size and weight vary by configuration and manufacturing process.
3. FaceTime calling requires a FaceTime-enabled device for the caller and recipient and a Wi-Fi connection. Availability over a cellular network depends on carrier policies; data charges may apply.
4. Data plan required. LTE and Wi-Fi calling are available in select markets and through select carriers. Speeds are based on theoretical throughput and vary based on site conditions and carrier. For details on LTE support, contact your carrier and see www.apple.com/ipad/LTE.
5. Cellular data plan is sold separately. The model you purchase is configured to work with a particular cellular network technology. Check with your carrier for compatibility and cellular data plan availability.
6. Siri may not be available in all languages or in all areas, and features may vary by area. Internet access required. Cellular data charges may apply.
7. Testing conducted by Apple in March 2018 using preproduction iPad (6th generation) units and software. Testing consisted of full battery discharge while performing each of the following tasks: video playback, audio playback, and Internet browsing using Wi-Fi or cellular data network. Video content was a repeated 2-hour 23-minute movie purchased from the iTunes Store. Audio content was a playlist of 358 unique audio tracks purchased from the iTunes Store. Internet over Wi-Fi and cellular data network tests were conducted using dedicated web and mail servers, browsing snapshot versions of 20 popular web pages, and receiving mail once an hour. All settings were default except: Wi-Fi was associated with a network (except for Internet browsing over cellular data network); the Wi-Fi feature Ask to Join Networks and Auto-Brightness were turned off; Brightness was set to 50%; and WPA2 encryption was enabled. Battery life depends on device settings, usage, and many other factors. Battery tests are conducted using specific iPad units; actual results may vary.
8. Wireless broadband recommended; fees may apply.

Some features may not be available for all countries or all areas. [Click here to see complete list.](#)

Helpful?

Yes

No

Support

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