iPad Pro (12.9-inch) - Technical Specifications



Finish

- Silver
- Gold
- Space Gray

Capacity[1]

- **Wi-Fi models**
  - 32GB
  - 128GB
  - 256GB
- **Wi-Fi + Cellular models**
  - 128GB
  - 256GB

Size and Weight[2]

- **Wi-Fi models**
  - Height: 12 inches (305.7 mm)
  - Width: 8.68 inches (220.6 mm)
  - Depth: 0.27 inch (6.9 mm)
  - Weight: 1.57 pounds (713 grams)
- **Wi-Fi + Cellular models**
  - Height: 12 inches (305.7 mm)
  - Width: 8.68 inches (220.6 mm)
  - Depth: 0.27 inch (6.9 mm)
  - Weight: 1.59 pounds (723 grams)

Buttons and Connectors

- Built-in stereo speakers
- Lightning connector
- Home/Touch ID sensor
- Smart Connector
- 3.5 mm headphone jack
- Built-in stereo speakers
- On/Off - Sleep/Wake
- Dual microphones
- Volume up/down
- Nano-SIM tray

In the Box

- iPad Pro
- Lightning to USB Cable
- USB Power Adapter

Display

- **Retina display**
  12.9-inch (diagonal) LED-backlit Multi-Touch display
  2732-by-2048 resolution at 264 pixels per inch (ppi)
  Fingerprint-resistant oleophobic coating
  Fully laminated display
  Antireflective coating

Chip

- A9X chip with 64-bit architecture

- Embedded M9 coprocessor

Camera

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

Video Recording

- 1080p HD video recording at 30 fps
- Slo-mo video support for 720p at 120 fps
- Time-lapse video with stabilization
- Video image stabilization
- 3x video zoom
- Face detection
- Video geotagging

FaceTime HD Camera

- 1.2-megapixel photos
- 720p HD video recording
- ƒ/2.2 aperture
- HDR for photos and videos
- Backside illumination
- Exposure control
- Burst mode
- Timer mode
- Face detection

FaceTime Calling[3]

- FaceTime audio to any FaceTime-enabled device over Wi-Fi or cellular
- FaceTime video to any FaceTime-enabled device over Wi-Fi or cellular

Speakers

- Four speaker audio

Microphones

- Dual microphones for calls, video recording, and audio recording

Cellular and Wireless

- **All models**
  Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO
  Bluetooth 4.2 technology
- **12.9-inch iPad Pro Wi-Fi + Cellular models**
  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)[4]
  Data only[5]
  Wi-Fi calling[4]
  Includes Apple SIM[6]
  Learn more about Apple SIM

SIM Card

- Nano-SIM (supports Apple SIM)

Location

- **All models**
  - Digital compass
  - Wi-Fi
  - iBeacon microlocation
- **Wi-Fi + Cellular models**

- Assisted GPS and GLONASS
- Cellular

Sensors

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

Touch ID

- Unlock iPad
- Secure personal data within apps
- Make purchases from the iTunes Store, App Store, and iBooks Store

Apple Pay

- Pay with your iPad using Touch ID within apps and on the web

Learn more about Apple Pay

Siri[7]

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

Learn more about Siri

Power and Battery[8]

- **12.9-inch iPad Pro**
  - Built-in 38.5-watt-hour rechargeable lithium-polymer battery
- **All models**
  - 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 models**
  - Up to 9 hours of surfing the web using cellular data network

Operating System
iOS 10
With an all-new design and all-new features, iOS 10 is the world's most advanced mobile OS. It brings your iPad to life in more intelligent and expressive ways than ever. See what's new in iOS 10

iOS 10 includes:

- AirDrop
- AirPlay
- AirPrint
- Control Center
- Notification Center
- Siri
- Spotlight Search
- Apple Music
- Family Sharing
- iCloud Drive
- Multitasking
- QuickType Keyboard
- Night Shift

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

Features include:

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

- Speak Screen

Built-in Apps
Built-in apps are an essential part of your iPad experience and are efficiently designed to use less than 200MB of storage.

- Camera
- Photos
- Messages
- FaceTime
- Mail
- Music
- Safari
- Maps
- Siri
- Calendar
- iTunes Store
- App Store
- Notes
- Contacts
- iBooks
- Home
- Reminders
- Clock
- TV
- Photo Booth
- Podcasts
- News
- Find My iPhone
- Find My Friends
- iCloud Drive

Free Apps from Apple[9]
Pages, Numbers, Keynote, iMovie, GarageBand, and iTunes U are preinstalled on iPad.

- Pages
- Numbers
- Keynote
- iMovie
- GarageBand
- iTunes U
- Apple Store
- Trailers
- iTunes Remote
- Music Memos
- Clips

System Requirements

- Apple ID (required for some features)
- Internet access[10]

Syncing with iTunes on a Mac or PC requires:

- Mac: OS X 10.9.5 or later
- PC: Windows 7 or later
- iTunes 12.5 or later (free download from www.itunes.com/download)

Languages

- **Language support**
  English (Australia, Canada, 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, Bengali, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Emoji, Estonian, Filipino, Finnish, Flemish, Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari, Transliteration), Hinglish, Hungarian, Icelandic, Indonesian, Latvian, Lithuanian, Macedonian, Malay, Marathi, Norwegian, Polish, Portuguese (Brazil, Portugal), Punjabi, Romanian, Russian, Serbian (Cyrillic, Latin), Slovak, Slovenian, Swedish, Tamil (Script, Transliteration), Telugu, Thai, Turkish, Ukrainian, Urdu, Vietnamese

- **QuickType keyboard support with predictive input**[11]
  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), Russian (Russia), Swedish (Sweden), Turkish (Türkiye), Thai (Thailand), Portuguese (Brazil)
- **Dictation languages**
  English (Australia, Canada, India, Ireland, Malaysia, New Zealand, Philippines, Saudi Arabia, Singapore, South Africa, UAE, UK, U.S.), Spanish (Chile, Colombia, Mexico, Spain, U.S.), French (Belgium, Canada, France, Luxembourg, Switzerland), German (Austria, Germany, Luxembourg, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (China mainland, Taiwan), Cantonese (Hong Kong), Arabic (Kuwait, Saudi Arabia, Qatar, UAE), Catalan, Croatian, Czech, Danish, Dutch (Belgium, Netherlands), Finnish, Greek, Hebrew, Hungarian, Indonesian, Malaysian, Norwegian, Polish, Portuguese (Brazil, Portugal), Romanian, Russian, Slovakian, Swedish, Turkish, Thai, Ukrainian, Vietnamese
- **Definition dictionary support**
  English, Chinese (Simplified, Traditional), Danish, Dutch, French, German, Hindi, Italian, Japanese, Korean, Norwegian, Portuguese (Brazil), Russian, Spanish, Swedish, Thai, Turkish
- **Bilingual dictionary support**
  Chinese (Simplified), Dutch, French, German, Italian, Japanese, Korean, Spanish
- **Spell check**
  English (Australia, Canada, UK, U.S.), French, German, Italian, Spanish, Danish, Dutch, Finnish, Korean, Norwegian, Polish, Portuguese (Brazil, Portugal), Russian, Swedish, Turkish

Audio Playback

- Frequency response: 20Hz to 20,000Hz
- 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)

iPad Pro may ship with iOS 9. iOS 10 will be available as a free download beginning September 13.

1. Available space is less and varies due to many factors. A standard configuration uses approximately 4GB to 6GB of space (including iOS and built-in apps) depending on the model and settings.
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 Advanced, 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. Embedded Apple SIM in iPad Pro (9.7-inch) may be disabled when purchased from some carriers. See your carrier for details. Apple SIM and embedded Apple SIM not available in China mainland.
7. 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.
8. Testing conducted by Apple in March 2016 using preproduction iPad Pro (9.7-inch) units and software and in August 2015 using preproduction iPad Pro (12.9-inch) 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.
9. iMovie, GarageBand, Pages, Numbers, and Keynote are available on the App Store. Downloading apps requires an Apple ID and a device that is compatible with the iOS version required for each app.
10. Wireless broadband recommended; fees may apply.
11. Customized suggestions based on recipient and app are not available for Chinese (Simplified, Traditional), Japanese, Korean, and Thai.

Some features may not be available for all countries or all areas. Click here to see complete list.

Published Date: May 10, 2023