iPad

Finish

Silver  Gold  Space Gray

Models

Wi-Fi  Wi-Fi + Cellular

Capacity¹

<table>
<thead>
<tr>
<th></th>
<th>Wi-Fi</th>
<th>Wi-Fi + Cellular</th>
</tr>
</thead>
<tbody>
<tr>
<td>32GB</td>
<td></td>
<td>32GB</td>
</tr>
<tr>
<td>128GB</td>
<td></td>
<td>128GB</td>
</tr>
</tbody>
</table>

Size and Weight²

<table>
<thead>
<tr>
<th></th>
<th>Width: 6.6 inches (169.5 mm)</th>
<th>Width: 6.6 inches (169.5 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height:</td>
<td>9.4 inches (240 mm)</td>
<td>9.4 inches (240 mm)</td>
</tr>
<tr>
<td>Depth:</td>
<td>0.29 inch (7.5 mm)</td>
<td>0.29 inch (7.5 mm)</td>
</tr>
<tr>
<td>Weight:</td>
<td>1.03 pounds (469 g)</td>
<td>1.05 pounds (478 g)</td>
</tr>
</tbody>
</table>

¹Storage capacity may be less than advertised due to anak operating system, settings, and apps.²Product dimensions and weight are approximate and may vary. Actual appearance may vary. Not all features are available on all models and depend on settings.
Buttons and Connectors

- Home/Touch ID sensor
- Built-in stereo speakers
- Lightning connector
- Nano-SIM tray (cellular models)
- Volume up/down
- On/Off
- Sleep/Wake
- 3.5 mm headphone jack

Connector

Lightning

In the Box

iPad
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

Chip

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

Camera, Photos, and Video Recording

- 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 (120 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 Calling

FaceTime video
iPad to any FaceTime-enabled device over Wi-Fi

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

### Audio Calling

FaceTime audio
iPad to any FaceTime-enabled device over Wi-Fi

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

### Cellular and Wireless

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Wi-Fi only</th>
<th>Wi-Fi + Cellular</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wi-Fi model</strong></td>
<td>Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO</td>
<td>Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO</td>
</tr>
<tr>
<td><strong>Wi-Fi + Cellular model</strong></td>
<td>Bluetooth 4.2 technology</td>
<td>Bluetooth 4.2 technology</td>
</tr>
<tr>
<td></td>
<td>UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)</td>
<td>UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)</td>
</tr>
<tr>
<td></td>
<td>CDMA EV-DO Rev. A (800, 1900 MHz)</td>
<td>CDMA EV-DO Rev. A (800, 1900 MHz)</td>
</tr>
<tr>
<td></td>
<td>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)</td>
<td>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)</td>
</tr>
<tr>
<td></td>
<td>Data only(^5)</td>
<td>Data only(^5)</td>
</tr>
<tr>
<td></td>
<td>Wi-Fi calling(^4)</td>
<td>Wi-Fi calling(^4)</td>
</tr>
</tbody>
</table>

### SIM Card

Nano-SIM (supports Apple SIM)
Includes Apple SIM
Learn more about Apple SIM

### Location

Digital compass
Wi-Fi
iBeacon microlocation

Digital compass
Wi-Fi
Assisted GPS and GLONASS
Cellular
iBeacon microlocation
### Sensors
- Touch ID
- Three-axis gyro
- Accelerometer
- Barometer
- Ambient light sensor

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### Touch ID
Fingerprint identity sensor built into the Home button

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### 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 >

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### Siri
Use your voice to send messages, set reminders, and more
Use hands-free
Listen and identify songs
Learn more about Siri >

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### Power and Battery
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

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

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### 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.
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

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.
System Requirements

Apple ID (required for some features)
Internet access

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 (Mainland China, Taiwan), Cantonese (Mainland China, Hong Kong), Arabic (Saudi Arabia, United Arab Emirates), Danish (Denmark), Dutch (Belgium, Netherlands), Finnish (Finland), Hebrew
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 (Mainland China, Taiwan), Cantonese (Mainland China, 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 (Mainland China), 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)
- .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)