

Documentation



iPad Air - Technical Specifications

Finish

- Space Gray
- Silver

Models

- Wi-Fi
- Wi-Fi + Cellular

Capacity¹

- 16GB
- 32GB
- 64GB
- 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 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)

Display

- Retina display
- 9.7-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2048-by-1536 resolution at 264 pixels per inch (ppi)
- Fingerprint-resistant oleophobic coating

Chip

- A7 chip with 64-bit architecture and M7 motion coprocessor

Wireless and Cellular

- **Wi-Fi**
 - Wi-Fi (802.11a/b/g/n); dual channel (2.4GHz and 5GHz) and MIMO
 - Bluetooth 4.0 technology
- **Wi-Fi + Cellular**
 - Wi-Fi (802.11a/b/g/n); dual channel (2.4GHz and 5GHz) and MIMO
 - Bluetooth 4.0 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 and Rev. B (800, 1900 MHz)
 - LTE (Bands 1, 2, 3, 4, 5, 7, 8, 13, 17, 18, 19, 20, 25, 26)³
 - Data only⁴

Cameras, Photos, and Video Recording

- **FaceTime HD Camera**
 - 1.2MP photos
 - 720p HD video
 - FaceTime video calling over Wi-Fi or cellular⁵
 - Face detection
 - Backside illumination
 - Tap to control exposure for video or still images
 - Photo and video geotagging
- **Video Recording**
 - 1080p HD video recording
 - Video stabilization
 - Face detection
 - Tap to focus while recording
 - Backside illumination
 - 3x video zoom
- **iSight Camera**
 - 5MP photos
 - Autofocus
 - Face detection
 - Backside illumination
 - Five-element lens
 - Hybrid IR filter
 - $f/2.4$ aperture
 - Tap to focus video or still images
 - Tap to control exposure for video or still images
 - Photo and video geotagging

- HDR photos

External Buttons and Connectors

- **External Buttons and Controls**
 - Home
 - On/Off; Sleep/Wake
 - Silent/Screen rotation lock
 - Volume up/down
- **Connectors and Input/Output**
 - Dual Microphones
 - 3.5-mm stereo headphone minijack
 - Lightning connector
 - Built-in speakers

Power and Battery⁶

- **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**
 - 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

Input/Output

- **Wi-Fi**
 - 3.5-mm stereo headphone minijack
 - Built-in speakers
 - Dual microphones
- **Wi-Fi + Cellular**
 - 3.5-mm stereo headphone minijack
 - Built-in speakers
 - Dual microphones
 - Nano-SIM card tray

Connector

- Lightning

Sensors

- Three-axis gyro

- Accelerometer
- Ambient light sensor

Operating system

iOS 9

With an all-new design and all-new features, iOS 9 is the world's most advanced mobile OS. In its most advanced form. [Learn more about iOS 9](#)

iOS 9 includes:

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

Built-in Apps

- Camera
- Photos
- Messages
- FaceTime
- Mail
- Music
- Safari
- Maps
- Siri
- Calendar
- iTunes Store
- App Store
- Notes
- Contacts
- iBooks
- Game Center
- Reminders
- Clock
- Videos
- Photo Booth
- Podcasts
- News
- Find My iPhone
- Find My Friends

- iCloud Drive

Free Apps from Apple⁷

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

Location

- **Wi-Fi**
 - Wi-Fi
 - Digital compass
- **Wi-Fi + Cellular**
 - Wi-Fi
 - Digital compass
 - Assisted GPS and GLONASS
 - Cellular

Video Calling⁵

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

Audio Calling⁵

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

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, 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 1080p, 60 frames per second, High Profile level 4.2 with AAC-LC audio up to 160 Kbps, 48kHz, stereo 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 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

Languages

- **Language support**
 - English (U.S.), English (UK), Chinese (Simplified), Chinese (Traditional), French, German, Italian, Japanese, Korean, Spanish, Arabic, Catalan, Croatian, Czech, Danish, Dutch, Finnish, Greek, Hebrew, Hungarian, Indonesian, Malay, Norwegian, Polish, Portuguese, Portuguese (Brazil), Romanian, Russian, Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese
- **Keyboard support**
 - English (U.S.), English (Canadian), English (UK), English (Australian), Chinese - Simplified (Handwriting, Pinyin, Stroke), Chinese - Traditional (Handwriting, Pinyin, Zhuyin, Cangjie, Stroke), French, French (Canadian), French (Switzerland), German (Germany), German (Switzerland), Italian, Japanese (Romaji, Kana), Korean, Spanish, Arabic, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Emoji, Estonian, Finnish, Flemish, Greek, Hawaiian, Hebrew, Hindi, Hungarian, Icelandic, Indonesian, Latvian, Lithuanian, Macedonian, Malay, Norwegian, Polish, Portuguese, Portuguese (Brazil), Romanian, Russian, Serbian (Cyrillic/Latin), Slovak, Swedish, Tamil, Thai, Tibetan, Turkish, Ukrainian, Vietnamese

- **Dictionary support (enables predictive text and autocorrect)**
 - English (U.S.), English (Canadian), English (UK), English (Australian), Chinese (Simplified), Chinese (Traditional), French, French (Canadian), French (Switzerland), German, Italian, Japanese (Romaji, Kana), Korean, Spanish, Arabic, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Estonian, Finnish, Flemish, Greek, Hawaiian, Hebrew, Hindi, Hungarian, Indonesian, Latvian, Lithuanian, Malay, Norwegian, Polish, Portuguese, Portuguese (Brazil), Romanian, Russian, Slovak, Swedish, Tamil, Thai, Turkish, Ukrainian, Vietnamese
- **Siri languages**
 - English (U.S., UK, Canada, Australia), Spanish (U.S., Mexico, Spain), French (France, Canada, Switzerland), German (Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (China mainland, Taiwan), Cantonese (Hong Kong)

Intelligent Assistant⁸

- [Siri](#)
 - Use your voice to send messages, set reminders, and more.

Accessibility

- VoiceOver screen reader
- Guided Access
- Switch Control
- Support for playback of closed-captioned content
- AssistiveTouch
- Full-screen zoom magnification
- Larger type
- Bold text
- Increase contrast
- Reduce motion
- On/Off labels
- Invert colors
- Left/right volume adjustment

Environmental Requirements

- Operating 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)

System Requirements

- Apple ID (required for some features)
- Internet access⁹
- Syncing with iTunes on a Mac or PC requires:
 - Mac: OS X v10.6.8 or later

- PC: Windows 8; Windows 7; Windows Vista; or Windows XP Home or Professional with Service Pack 3 or later
- iTunes (free download from www.itunes.com/download)

In the Box

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

1. 1GB = 1 billion bytes; actual formatted capacity less.
2. Size and weight vary by configuration and manufacturing process.
3. For details on LTE support, contact your carrier and see www.apple.com/ipad/LTE.
4. Cellular data service is available only on Wi-Fi + Cellular models. The model you purchase is configured to work with a particular cellular network technology. Data plan required.
5. 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.
6. Testing conducted by Apple in October 2013 using preproduction iPad Air 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.
7. iMovie, Pages, Numbers, and Keynote are free on the App Store for qualifying iOS 9 compatible devices with initial activation on or after September 1, 2013. GarageBand is free on the App Store for qualifying iOS 9 compatible devices with initial activation on or after September 1, 2014. See www.apple.com/ios/whats-new for iOS 9 compatible devices. Downloading apps requires an Apple ID.
8. 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.
9. Wireless broadband recommended; fees may apply.

Helpful?

Yes

No

Support

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