

# iPad Air (4th generation) – Technical Specifications

Sprachen



## Finish

- Silver
- Space Gray
- Rose Gold
- Green
- Sky Blue

## Capacity<sup>1</sup>

- 64GB
- 256GB

## Size and Weight<sup>2</sup>

- **Wi-Fi models**
  - Height: 9.74 inches (247.6 mm)
  - Width: 7.02 inches (178.5 mm)
  - Depth: 0.24 inch (6.1 mm)
  - Weight: 1.0 pound (458 grams)
- **Wi-Fi + Cellular models**
  - Height: 9.74 inches (247.6 mm)
  - Width: 7.02 inches (178.5 mm)
  - Depth: 0.24 inch (6.1 mm)
  - Weight: 1.01 pounds (460 grams)

## Buttons and Connectors

- Speakers
- Top button/Touch ID sensor
- Microphones
- Volume up/down
- Camera
- Magnetic connector
- Nano-SIM tray (cellular models)
- Smart Connector
- USB-C connector

## In the Box

- iPad Air
- USB-C Charge Cable (1 meter)
- 20W USB-C Power Adapter

## Display

*The iPad Air display has rounded corners. When measured diagonally as a rectangle, the screen is 10.86 inches. Actual viewable area is less.*

- Liquid Retina display
- 10.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2360-by-1640-pixel resolution at 264 pixels per inch (ppi)
- Wide color display (P3)
- True Tone display
- Fingerprint-resistant oleophobic coating
- Fully laminated display
- Antireflective coating
- 1.8% reflectivity
- 500 nits brightness

- Supports Apple Pencil (2nd generation)

#### Chip

- A14 Bionic chip with 64-bit architecture
- Neural Engine

#### Camera

- 12MP Wide camera
- f/1.8 aperture
- Five-element lens
- Hybrid IR filter
- Backside illumination sensor
- Live Photos with stabilization
- Autofocus with Focus Pixels
- Tap to focus with Focus Pixels
- Wide color capture for photos and Live Photos
- Panorama (up to 63MP)
- Exposure control
- Noise reduction
- Smart HDR 3 for photos
- Auto image stabilization
- Burst mode
- Timer mode
- Photo geotagging
- Image formats captured: HEIF and JPEG

#### Video Recording

- 4K video recording at 24 fps, 30 fps, or 60 fps
- 1080p HD video recording at 30 fps or 60 fps
- Slo-mo video support for 1080p at 120 fps or 240 fps
- Time-lapse video with stabilization
- Cinematic video stabilization (1080p and 720p)
- Continuous autofocus video
- Noise reduction
- Playback zoom
- Video geotagging
- Video formats captured: HEVC and H.264

#### FaceTime HD Camera

- 7MP photos
- f/2.2 aperture
- 1080p HD video recording at 60 fps
- Wide color capture for photos and Live Photos
- Smart HDR
- Retina Flash
- Backside illumination sensor
- Auto image stabilization
- Burst mode
- Exposure control
- Timer mode

#### Video Calling<sup>3</sup>

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

#### Audio Calling<sup>3</sup>

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

#### Speakers

- Stereo speakers

#### Microphones

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

#### Cellular and Wireless

- **All models**  
802.11ax Wi-Fi 6; simultaneous dual band (2.4GHz and 5GHz); HT80 with MIMO  
Bluetooth 5.0 technology
- **Wi-Fi + Cellular models**  
Model A2324:  
UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)

Gigabit-class LTE (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, 48, 66, 71)<sup>4</sup>

Data only<sup>5</sup>

Wi-Fi calling<sup>4</sup>

eSIM<sup>6</sup>

Learn more about cellular data

For details on LTE support, contact your carrier and see [apple.com/ipad/cellular/networks](https://apple.com/ipad/cellular/networks).

### **SIM Card**

- Nano-SIM (supports Apple SIM<sup>6</sup>)
- eSIM<sup>6</sup>

### **Location**

- **All models**
  - Digital compass
  - Wi-Fi
  - iBeacon microlocation
- **Wi-Fi + Cellular models**
  - Built-in GPS/GNSS
  - 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 Apple Books

### **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

### **Siri<sup>7</sup>**

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

Learn more about Siri

### **Charging and Expansion**

- USB-C

### **Power and Battery<sup>8</sup>**

- **All models**
  - Built-in 28.6-watt-hour rechargeable lithium-polymer battery
  - Up to 10 hours of surfing the web on Wi-Fi or watching video
  - Charging via power adapter or USB-C to computer system
- **Wi-Fi + Cellular models**
  - Up to 9 hours of surfing the web using cellular data network

### **Operating System**

#### **iPadOS 15**

iPadOS comes with powerful features and built-in apps designed to take advantage of the unique capabilities of iPad.

See what's new in iPadOS

### **Accessibility**

Built-in accessibility features supporting vision, mobility, hearing, and cognitive disabilities help you get the most out of your iPad. Learn more about Accessibility

Features include:

- VoiceOver

- Voice Control
- Zoom
- Magnifier
- RTT and TTY Support
- Siri and Dictation
- Type to Siri
- Switch Control
- Closed Captions
- AssistiveTouch
- Speak Screen

#### **Built-in Apps**

- App Store
- Books
- Calendar
- Camera
- Clock
- Contacts
- FaceTime
- Files
- Find My
- Home
- iTunes Store
- Mail
- Maps
- Measure
- Messages
- Music
- News
- Notes
- Photo Booth
- Photos
- Podcasts
- Reminders
- Safari
- Settings
- Shortcuts
- Siri
- Stocks
- Tips
- TV
- Voice Memos
- Magnifier
- Translate

#### **Free Apps from Apple**

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

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

#### **System Requirements**

- Apple ID (required for some features)
- Internet access<sup>9</sup>
- Syncing to a Mac or PC requires:
  - macOS Catalina 10.15 or later using the Finder
  - macOS El Capitan 10.11.6 through macOS Mojave 10.14.6 using iTunes 12.8 or later
  - Windows 10 and iTunes 12.12 or later (free download from [itunes.com/download](https://itunes.com/download))

#### **Languages**

- **Language support**  
English (Australia, Canada, India, Singapore, 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 QWERTY, Pinyin 10 Key, Shuangpin, Stroke), Chinese – Traditional (Cangjie, Handwriting, Pinyin QWERTY, Pinyin 10 Key, Shuangpin, Stroke, Sucheng, Zhuyin), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese (Kana, Romaji), Korean (2–Set, 10 Key), Spanish (Latin America, Mexico, Spain), Ainu, Albanian, Amharic, Arabic (Modern Standard, Najdi), Armenian, Assamese, Assyrian, Azerbaijani, Bangla, Belarusian, Bodo, Bulgarian, Burmese, Cantonese – Traditional (Cangjie, Handwriting, Stroke, Sucheng), Catalan, Cherokee, Croatian, Czech, Danish, Dhivehi, Dogri, Dutch, Emoji, Estonian, Faroese, Filipino, Finnish, Flemish, Fula (Adlam), Georgian, Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari, Latin, Transliteration), Hungarian, Icelandic, Igbo, Indonesian, Irish Gaelic, Kannada, Kashmiri (Arabic, Devanagari), Kazakh, Khmer, Konkani (Devanagari), Kurdish (Arabic, Latin), Kyrgyz, Lao, Latvian, Lithuanian, Macedonian, Maithili, Malay (Arabic, Latin), Malayalam, Maltese, Manipuri (Bangla, Meetei Mayek), Maori, Marathi, Mongolian, Navajo, Nepali, Norwegian (Bokmål, Nynorsk), Odia, Pashto, Persian, Persian (Afghanistan), Polish, Portuguese (Brazil, Portugal), Punjabi, Rohingya, Romanian, Russian, Sanskrit, Santali (Devanagari, Ol Chiki), Serbian (Cyrillic, Latin), Sindhi (Arabic, Devanagari), Sinhala, Slovak, Slovenian, Swahili, Swedish, Tajik, Tamil (Anjal, Tamil 99), Telugu, Thai, Tibetan, Tongan, Turkish, Turkmen, Ukrainian, Urdu, Uyghur, Uzbek (Arabic, Cyrillic, Latin), Vietnamese, Welsh
- **QuickType keyboard support with autocorrection**  
Arabic (Modern Standard), Arabic (Najdi), Bangla, Bulgarian, Catalan, Cherokee, Chinese – Simplified (Pinyin QWERTY), Chinese – Traditional (Pinyin QWERTY), Chinese – Traditional (Zhuyin), Croatian, Czech, Danish, Dutch, English (Australia), English (Canada), English (India), English (Japan), English (Singapore), English (UK), English (U.S.), Estonian, Filipino, Finnish, Dutch (Belgium), French (Belgium), French (Canada), French (France), French (Switzerland), German (Austria), German (Germany), German (Switzerland), Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari), Hindi (Transliteration), Hungarian, Icelandic, Indonesian, Irish Gaelic, Italian, Japanese (Kana), Japanese (Romaji), Korean (2–set), Latvian, Lithuanian, Macedonian, Malay, Marathi, Norwegian (Bokmål), Norwegian (Nynorsk), Persian, Persian (Afghanistan), Polish, Portuguese (Brazil), Portuguese (Portugal), Punjabi, Romanian, Russian, Serbian (Cyrillic), Serbian (Latin), Slovak, Slovenian, Spanish (Latin America), Spanish (Mexico), Spanish (Spain), Swedish, Tamil (Anjal), Tamil (Tamil 99), Telugu, Thai, Turkish, Ukrainian, Urdu, Vietnamese
- **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, Spanish (Latin America, Mexico, Spain), Arabic (Modern Standard, Najdi), Cantonese (Traditional), Dutch, Hindi (Devanagari, Latin), Portuguese (Brazil, Portugal), Russian, Swedish, Thai, Turkish, Vietnamese
- **QuickType keyboard support with multilingual input**  
English (U.S.), English (Australia), English (Canada), English (India), English (Singapore), English (UK), Chinese – Simplified (Pinyin), Chinese – Traditional (Pinyin), French (France), French (Belgium), French (Canada), French (Switzerland), German (Germany), German (Austria), German (Switzerland), Italian, Japanese (Romaji), Portuguese (Brazil), Portuguese (Portugal), Spanish (Spain), Spanish (Latin America), Spanish (Mexico), Dutch (Belgium), Dutch (Netherlands), Hindi (Latin)
- **QuickType keyboard support with contextual suggestions**  
English (U.S.), English (Australia), English (Canada), English (India), English (Singapore), English (UK), Chinese (Simplified), French (Belgium), French (Canada), French (France), French (Switzerland), German (Austria), German (Germany), German (Switzerland), Italian, Spanish (Latin America), Spanish (Mexico), Spanish (Spain), Arabic (Modern Standard), Arabic (Najdi), Dutch (Belgium), Dutch (Netherlands), Hindi (Devanagari), Hindi (Latin), Russian, Swedish, Portuguese (Brazil), Turkish, Vietnamese
- **QuickPath keyboard support**  
English (U.S.), English (Australia), English (Canada), English (India), English (Singapore), English (UK), Chinese (Simplified), French (Canada), French (France), French (Switzerland), German (Austria), German (Germany), German (Switzerland), Italian, Spanish (Latin America), Spanish (Mexico), Spanish (Spain), Portuguese (Brazil), Portuguese (Portugal), Dutch (Belgium), Dutch (Netherlands), Swedish, Vietnamese
- **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 (Japan), Korean (Republic of Korea), Mandarin Chinese (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 (Turkey)
- **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, Shanghaiese (China mainland), Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese

▪ **Definition dictionary support**

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

▪ **Thesaurus**

English (UK, U.S.), Chinese (Simplified)

▪ **Spell check**

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

▪ **Apple Pay supported regions**

Australia, Austria, Belarus, Belgium, Brazil, Bulgaria, Canada, China mainland,10 Croatia, Cyprus, Czech Republic, Denmark, Estonia, Faroe Islands, Finland, France, Georgia, Germany, Greece, Greenland, Guernsey, Hong Kong, Hungary, Iceland, Ireland, Isle of Man, Israel, Italy, Japan, Jersey, Kazakhstan, Latvia, Liechtenstein, Lithuania, Luxembourg, Macao, Malta, Mexico, Monaco, Montenegro, Netherlands, New Zealand, Norway, Poland, Portugal, Qatar, Romania, San Marino, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, UK, Ukraine, United Arab Emirates, U.S., Vatican City

**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)
- Supports Dolby Vision and HDR10 content
- Video mirroring and video out support: Up to 4K through USB-C Digital AV Multiport Adapter and USB-C VGA Multiport 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; .usdz

**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 and the Environment**

iPad Air is designed with the following features to reduce its environmental impact.<sup>11</sup> See the iPad Air Product Environmental Report

**Made with better materials**

- 100% recycled aluminum in the enclosure
- 100% recycled rare earth elements in the speaker magnets
- 100% recycled tin in the solder of the main logic board
- 35% or more recycled plastic in multiple components

**Smarter chemistry<sup>12</sup>**

- Arsenic-free display glass
- Mercury-free
- BFR-, PVC-, and beryllium-free

**Green manufacturing**

- Apple's Zero Waste Program helps suppliers eliminate waste sent to landfill

- All final assembly supplier sites are transitioning to 100% renewable energy for Apple production

### Responsible packaging

- 100% of virgin wood fiber comes from responsibly managed forests
- Recyclable, majority-fiber packaging

### Energy efficient

- ENERGY STAR® certified<sup>13</sup>

### Apple and the Environment

We're committed to making our products without taking from the earth, and to become carbon neutral across our entire business, including products, by 2030. See Apple's commitment

1. Available space is less and varies due to many factors. A standard configuration uses approximately 12GB to 17GB of space, including iPadOS 15 with its latest features and Apple apps that can be deleted. Apple apps that can be deleted use about 4.5GB of space, and you can download them back from the App Store. Storage capacity subject to change based on software version, settings, and iPad model.
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. Gigabit-class 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 [apple.com/ipad/cellular](http://apple.com/ipad/cellular).
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. Not all carriers support Apple SIM and eSIM. See your carrier for details. 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 August 2020 using preproduction iPad Air (4th generation) units and software. Testing consisted of full battery discharge while performing each of the following tasks: video 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. Internet over Wi-Fi and cellular data network tests were conducted using dedicated web servers, browsing snapshot versions of 20 popular web pages. 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. Wireless broadband recommended; fees may apply.
10. In China mainland, you can use Apple Pay on the web in Safari only on compatible iPhone and iPad models using iOS 11.2 or later.
11. Data accurate as of product launch.
12. Apple defines its restrictions on harmful substances, including definitions for what Apple considers to be "free of," in the Apple Regulated Substances Specification. Every Apple product is free of PVC and phthalates with the exception of AC power cords in India, Thailand (for two-prong AC power cords), and South Korea, where we continue to seek government approval for our PVC and phthalates replacement.
13. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

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Support