

# Pad 2 – Technical Specifications



## Models

- Wi-Fi
- Wi-Fi + 3G

## Size and Weight<sup>1</sup>

### Wi-Fi

- Height: 9.50 inches (241.2 mm)
- Width: 7.31 inches (185.7 mm)
- Depth: 0.34 inch (8.8 mm)
- Weight: 1.33 pounds (601 g)

### Wi-Fi + 3G

- Height: 9.50 inches (241.2 mm)
- Width: 7.31 inches (185.7 mm)
- Depth: 0.34 inch (8.8 mm)
- Weight: 1.35 pounds (613 g)  
(Wi-Fi + 3G model)

## Wireless and Cellular

### Wi-Fi

- Wi-Fi (802.11a/b/g/n)
- Bluetooth 2.1 + EDR technology

### Wi-Fi + 3G

- Wi-Fi + 3G model: UMTS/HSDPA/HSUPA (850, 900, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)

- Data only<sup>3</sup>
- Wi-Fi (802.11a/b/g/n)
- Bluetooth 2.1 + EDR technology

## Carriers

### Wi-Fi + 3G

- AT&T

## Display

- 9.7-inch (diagonal) LED-backlit glossy widescreen Multi-Touch display with IPS technology
- 1024-by-768-pixel resolution at 132 pixels per inch (ppi)
- Fingerprint-resistant oleophobic coating
- Support for display of multiple languages and characters simultaneously

## Chip

- 1GHz dual-core Apple A5 custom-designed, high-performance, low-power system-on-a-chip

## Cameras, Photos, and Video Recording

- Back camera: Video recording, HD (720p) up to 30 frames per second with audio; still camera with 5x digital zoom
- Front camera: Video recording, VGA up to 30 frames per second with audio; VGA-quality still camera
- Tap to control exposure for video or stills
- Photo and video geotagging over Wi-Fi

## External Buttons and Connectors



## Power and Battery<sup>4</sup>

### Wi-Fi

- Built-in 25-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 + 3G

- Built-in 25-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 3G data network
- Charging via power adapter or USB to computer system

## Input/Output

### Wi-Fi

- 30-pin dock connector port
- 3.5-mm stereo headphone minijack
- Built-in speaker
- Microphone

### Wi-Fi + 3G

- 30-pin dock connector port
- 3.5-mm stereo headphone minijack
- Built-in speaker
- Micro-SIM card tray (Wi-Fi + 3G model)
- Microphone

## Sensors

- Accelerometer
- Ambient light sensor
- Gyroscope

## Location

### Wi-Fi

- Wi-Fi
- Digital compass

### Wi-Fi + 3G

- Wi-Fi
- Digital compass
- Assisted GPS
- Cellular

## Audio Playback

- Frequency response: 20Hz to 20,000Hz
- Audio formats supported: HE-AAC (V1 and V2), AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, and 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV
- User-configurable maximum volume limit
- Dolby Digital 5.1 surround sound pass-through with Apple Digital AV Adapter (sold separately)

## TV and Video

- AirPlay Mirroring to Apple TV support at 720p
- Video mirroring and video out support: Up to 1080p with Apple Digital AV Adapter or Apple VGA Adapter (adapters sold separately)
- Video out support at 576p and 480p with Apple Component AV Cable; 576i and 480i with Apple Composite AV Cable (cables sold separately)
- Video formats supported: H.264 video up to 1080p, 30 frames per second, High Profile level 4.1 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)

## Languages

- Language support for English (U.S.), English (UK), French (France), German, Traditional Chinese, Simplified Chinese, Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese (Portugal), Danish, Swedish, Finnish, Norwegian, Korean, Japanese, Russian, Polish, Turkish, Ukrainian, Hungarian, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovak, Croatian, Catalan, and Vietnamese
- Keyboard support for English (U.S.), English (UK), French (France), French (Canadian), French (Switzerland), German, Traditional Chinese (Handwriting, Pinyin, Zhuyin, Cangjie, Wubihua), Simplified Chinese (Handwriting, Pinyin, Wubihua), Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese (Portugal), Danish, Swedish, Finnish, Norwegian, Korean, Japanese (Romaji, Ten Key), Japanese (Kana), Russian, Polish, Turkish, Ukrainian, Estonian, Hungarian, Icelandic, Lithuanian, Latvian, Flemish, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malay, Romanian, Slovak, Croatian, Bulgarian, Serbian (Cyrillic/Latin), Catalan, Vietnamese, Tibetan, Macedonian, and Cherokee
- Dictionary support (enables predictive text and autocorrect) for English (U.S.), English (UK), French, German, Traditional Chinese, Simplified Chinese, Dutch, Italian, Spanish, Portuguese (Brazil), Portuguese (Portugal), Danish, Swedish, Finnish, Norwegian, Korean, Japanese (Romaji), Japanese (Kana), Russian, Polish, Turkish, Ukrainian, Hungarian, Lithuanian, Flemish, Arabic, Thai, Czech, Greek, Hebrew, Indonesian, Malaysian, Romanian, Slovak, Croatian, Catalan, Vietnamese, and Cherokee

## Accessibility

- VoiceOver screen reader
- Support for playback of closed-captioned content
- AssistiveTouch interface for adaptive accessories
- Full-screen zoom magnification
- Large fonts
- White on black display
- Left/right volume adjustment

## 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

## System Requirements

- Apple ID (required for some features)
- Internet access<sup>5</sup>
- Syncing with iTunes on a Mac or PC requires:
  - Mac: OS X v10.5.8 or later
  - PC: Windows 7; Windows Vista; or Windows XP Home or Professional with Service Pack 3 or later
  - iTunes 10.5 or later (free download from [www.itunes.com/download](http://www.itunes.com/download))

## In the Box

- iPad
- Dock Connector to USB Cable
- 10W USB Power Adapter

## Built-in Apps

- Safari
- Photos
- App Store
- Maps
- Photo Booth
- Reminders
- Camera
- Mail
- FaceTime
- iTunes
- Music
- Clock
- Calendar
- Messages
- Newsstand
- Videos
- Game Center
- Contacts
- Notes

## iPad and the Environment

**iPad embodies Apple's continuing environmental progress. It is designed with the following features to reduce environmental impact:**

- Mercury-free LCD display
- Arsenic-free display glass
- BFR-free
- PVC-free
- Recyclable aluminum enclosure

1. Actual size and weight vary by configuration and manufacturing process.  
2. 1GB = 1 billion bytes; actual formatted capacity less.  
3. 3G data plan is sold separately. The iPad with Wi-Fi + 3G model you purchase is configured to work with a particular cellular network technology. Check with your carrier for compatibility and 3G data plan availability.  
4. Testing conducted by Apple in February 2012 using preproduction iPad 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 songs, consisting of a combination of songs imported from CDs using iTunes (128-Kbps AAC encoding) and songs purchased from the iTunes Store (256-Kbps AAC encoding). 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. Battery life depends on device settings, usage, and many other factors. Battery tests are conducted using specific iPad units; actual results may vary.  
5. Wireless broadband recommended; fees may apply.