#### **Documentation**







# iPad (7th generation) - Technical Specifications

**Finish** 

- Silver
- · Space Gray
- Gold

Capacity<sup>1</sup>

- 32GB
- 128GB

Size and Weight<sup>2</sup>

- Wi-Fi
  - o Height: 9.8 inches (250.6 mm)
  - o Width: 6.8 inches (174.1 mm)
  - o Depth: 0.29 inch (7.5 mm)
  - Weight: 1.07 pounds (483 grams)
- Wi-Fi + Cellular
  - Height: 9.8 inches (250.6 mm)
  - o Width: 6.8 inches (174.1 mm)
  - o Depth: 0.29 inch (7.5 mm)
  - Weight: 1.09 pounds (493 grams)

# **Buttons and Connectors**

- Home/Touch ID sensor
- Stereo speakers
- Smart Connector
- Lightning connector
- 3.5 mm headphone jack
- On/Off Sleep/Wake
- Volume up/down
- · Nano-SIM tray (cellular models)
- · Dual microphones

#### In the Box

- iPac
- · Lightning to USB Cable
- USB Power Adapter

# Display

- · Retina display
- 10.2-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2160-by-1620-pixel resolution at 264 pixel per inch (ppi)
- 500 nits brightness
- · Fingerprint-resistant oleophobic coating
- Supports Apple Pencil (1st generation)

# Chip

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

# Camera

- 8-megapixel camera
- f/2.4 aperture
- Five-element lens
- · Hybrid IR filter
- · Backside illumination
- · Live Photos
- Autofocus
- Panorama (up to 43 megapixels)
- HDR for photos
- · Exposure control
- · Burst mode
- · Tap to focus
- · Timer mode
- · Auto image stabilization
- Body and 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
- Body and face detection
- 3x video zoom
- · Video geotagging

#### FaceTime HD Camera

- 1.2-megapixel photos
- f/2.2 aperture
- Retina Flash

- · Backside illumination
- Live Photos
- 720p HD video recording
- · HDR for photos and videos
- · Body and face detection
- · 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
  - Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO
  - Bluetooth 4.2 technology
- Wi-Fi + Cellular model
  - 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, 66, 71)<sup>4</sup>
  - Data only⁵
  - Wi-Fi calling<sup>4</sup>
  - eSim<sup>6</sup>

<u>Learn more about cellular data</u>

# SIM Card

- Wi-Fi + Cellular model
  - Nano-SIM (supports Apple SIM)
  - eSIM<sup>6</sup>

# Location

- · All models
  - Digital compass
  - o Wi-Fi

- iBeacon microlocation
- Wi-Fi + Cellular model
  - o 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

#### Siri7

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

# Learn more about Siri

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

- All models
  - Built-in 32.4-watt-hour rechargeable lithiumpolymer 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 model
  - Up to 9 hours of surfing the web using cellular data network

# **Operating System**

#### **iPadOS**

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

Accessibility features help people with disabilities get the most out of their new iPad. With built-in support for vision, hearing, mobility, and learning, you can create and do amazing things. <u>Learn more about Accessibility</u>

#### Features include:

- Voice Control
- VoiceOver
- Zoom
- Magnifier
- Siri and Dictation
- 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

# Free Apps from Apple

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

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

#### **System Requirements**

- · Apple ID (required for some features)
- Internet access<sup>9</sup>

Syncing to a Mac or PC requires:

- · macOS Catalina 10.15 using the Finder
- macOS El Capitan 10.11.6 through macOS Mojave 10.14.6 using iTunes 12.8 or later
- Windows 7 or later using iTunes 12.10 or later (free download from <u>www.itunes.com/download</u>)

#### Languages

#### · Language support

 English (Australia, UK, U.S.), Chinese (Simplified, Traditional, Traditional Hong Kong), French (Canada, France), German, Italian, Japanese, Korean, Spanish (Latin America, 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), Albanian, Arabic (Modern Standard, Najdi), Armenian, Assamese, 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, Georgian, Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari, Latin, Transliteration), Hungarian, Icelandic, Indonesian, Irish, Kannada, Kashmiri (Arabic, Devanagari), Kazakh, Khmer, Konkani (Devanagari), Kurdish (Arabic, Latin), Kyrgyz, Lao, Latvian, Lithuanian, Macedonian, Maithili (Bangla), Malay (Arabic, Latin), Malayalam, Maltese, Manipuri (Bangla, Meetei Mayek), Maori, Marathi, Mongolian, Nepali, Norwegian, Odia, Pashto, Persian, Polish, Portuguese (Brazil, Portugal), Punjabi, 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 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 (Najdi and MSA), Cantonese (Traditional), Dutch, Hindi (Devanagari, Latin), Portuguese (Brazil, Portugal), Russian, Swedish, Thai, Turkish, 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, 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), Portuguese (Brazil), Russian (Russia), Swedish (Sweden), Thai (Thailand), Turkish (Türkiye)

#### · 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, Shanghainese (China mainland), Slovakian, Swedish, Thai, Turkish, Ukrainian, Vietnamese

#### · Definition dictionary support

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

#### Thesaurus

English (UK, U.S.)

#### · Bilingual dictionary support

Arabic, Chinese (Simplified, Traditional), French,
 German, Italian, Japanese, Spanish, Korean, Dutch,
 Hindi, Portuguese, Russian, Thai, Vietnamese

#### · Spell check

 English, French, German, Italian, Spanish, Arabic, Arabic Najdi, 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

o .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)
- 1. Available space is less and varies due to many factors. A standard configuration uses approximately 10GB to 13GB of space (including iPadOS and preinstalled apps) depending on the model and settings. Preinstalled apps use about 4GB, and you can delete these apps and restore them. Storage capacity subject to change based on software version and may vary by device.
- 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/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. 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 2019 using preproduction iPad (7th generation) 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. Wireless broadband recommended; fees may apply.

Helpful?





Support

iPad (7th generation) - Technical Specifications

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United States