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# iPhone 8

Tech Specs

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## iPhone 8

## iPhone 8 Plus

### Finish



Gold, Silver, Space Gray



Gold, Silver, Space Gray

### Capacity<sup>1</sup>

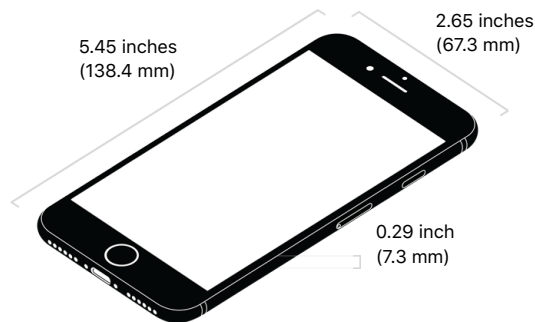
64GB

128GB

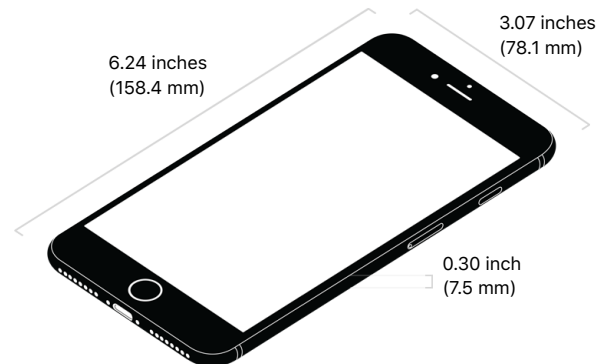
64GB

128GB

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



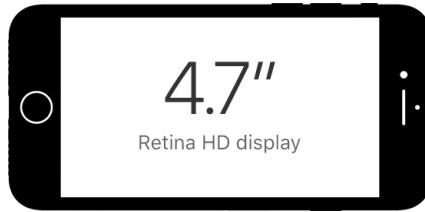
**Weight:** 5.22 ounces (148 grams)



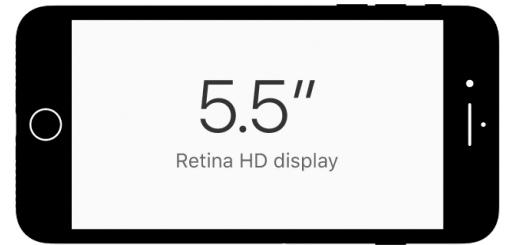
**Weight:** 7.13 ounces (202 grams)

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## Display



Retina HD display  
4.7-inch (diagonal) widescreen LCD Multi-Touch display with IPS technology  
1334-by-750-pixel resolution at 326 ppi  
1400:1 contrast ratio (typical)



Retina HD display  
5.5-inch (diagonal) widescreen LCD Multi-Touch display with IPS technology  
1920-by-1080-pixel resolution at 401 ppi  
1300:1 contrast ratio (typical)

### Both models:

True Tone display  
Wide color display (P3)  
3D Touch  
625 nits max brightness (typical)  
Dual-domain pixels for wide viewing angles  
Fingerprint-resistant oleophobic coating  
Support for display of multiple languages and characters simultaneously  
Display Zoom  
Reachability

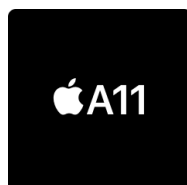
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## Splash, Water, and Dust Resistant<sup>3</sup>

Rated IP67 (maximum depth of 1 meter up to 30 minutes) under IEC standard 60529

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## Chip



A11 Bionic chip  
Neural Engine

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## Camera

Single 12MP Wide camera

Wide:  $f/1.8$  aperture

Digital zoom up to 5x

—

—

Dual 12MP Wide and Telephoto cameras

Wide:  $f/1.8$  aperture

Telephoto:  $f/2.8$  aperture

2x optical zoom in; digital zoom up to 10x

Portrait mode

Portrait Lighting with five effects (Natural, Studio, Contour, Stage, Stage Mono)

### Both models:

Optical image stabilization

Six-element lens

LED True Tone flash with Slow Sync

Panorama (up to 63MP)

Live Photos with stabilization

Wide color capture for photos and Live Photos

Auto HDR for photos

Auto image stabilization

Burst mode

Photo geotagging

Image formats captured: HEIF and JPEG

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## Video Recording

4K video recording at 24 fps, 30 fps, or 60 fps

1080p HD video recording at 30 fps or 60 fps

720p HD video recording at 30 fps

Optical image stabilization for video

2x optical zoom in; digital zoom up to 6x (iPhone 8 Plus only)

LED True Tone flash

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

Take 8MP still photos while recording 4K video

Playback zoom

Video formats recorded: HEVC and H.264

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## FaceTime HD Camera

7MP camera  
ƒ/2.2 aperture  
1080p HD video recording at 30 fps  
Retina Flash  
Wide color capture for photos and Live Photos  
Auto HDR for photos  
Auto image stabilization  
Burst mode

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## Touch ID

Fingerprint sensor built into the Home button

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## Apple Pay

Pay with your iPhone using Touch ID in stores, within apps, and on the web  
Send and receive money in Messages  
Complete purchases made with Apple Pay on your Mac  
[Learn more about Apple Pay >](#)

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## Apple Card

Credit card created by Apple, designed for iPhone  
Use the Wallet app to apply for, manage, and use Apple Card  
Pay with Apple Pay using Touch ID in stores, within apps, and on the web  
Titanium, laser-etched physical credit card for use where Apple Pay is not accepted yet  
[Learn more about Apple Card >](#)

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## Carriers



## Cellular and Wireless

Model A1863\*  
Model A1864\*

FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 29, 30, 66)  
TD-LTE (Bands 34, 38, 39, 40, 41)

	TD-SCDMA 1900 (F), 2000 (A)
	CDMA EV-DO Rev. A (800, 1900, 2100 MHz)
	UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
	GSM/EDGE (850, 900, 1800, 1900 MHz)
<b>Model A1905*</b>	FDD-LTE (Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 25, 26, 28, 29, 30, 66)
<b>Model A1897*</b>	TD-LTE (Bands 34, 38, 39, 40, 41)
<small>Models A1905 and A1897 do not support CDMA networks, such as those used by Verizon and Sprint.</small>	UMTS/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz)
	GSM/EDGE (850, 900, 1800, 1900 MHz)
<b>All models</b>	802.11ac Wi-Fi with MIMO
	Bluetooth 5.0 wireless technology
	NFC with reader mode
	Express Cards

## Location

Built-in GPS/GNSS  
 Digital compass  
 Wi-Fi  
 Cellular  
 iBeacon microlocation

## Video Calling<sup>4</sup>

FaceTime video calling over Wi-Fi or cellular

## Audio Calling<sup>4</sup>

FaceTime audio  
 Voice over LTE (VoLTE)<sup>5</sup>  
 Wi-Fi calling<sup>5</sup>

## Audio Playback

Audio formats supported: AAC-LC, HE-AAC, HE-AAC v2, Protected AAC, MP3, Linear PCM, Apple Lossless, FLAC, Dolby Digital (AC-3), Dolby Digital Plus (E-AC-3), and Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+)

Stereo playback

User-configurable maximum volume limit

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## Video Playback

Video formats supported: HEVC, H.264, MPEG-4 Part 2, and Motion JPEG

Supports Dolby Vision and HDR10 content

AirPlay Mirroring, photos, and video out to Apple TV (2nd generation or later)<sup>6</sup>

Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)<sup>6</sup>

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## Siri<sup>7</sup>

Use your voice to send messages, set reminders, and more

Get intelligent suggestions on your Lock screen and in Messages, Mail, QuickType, and more

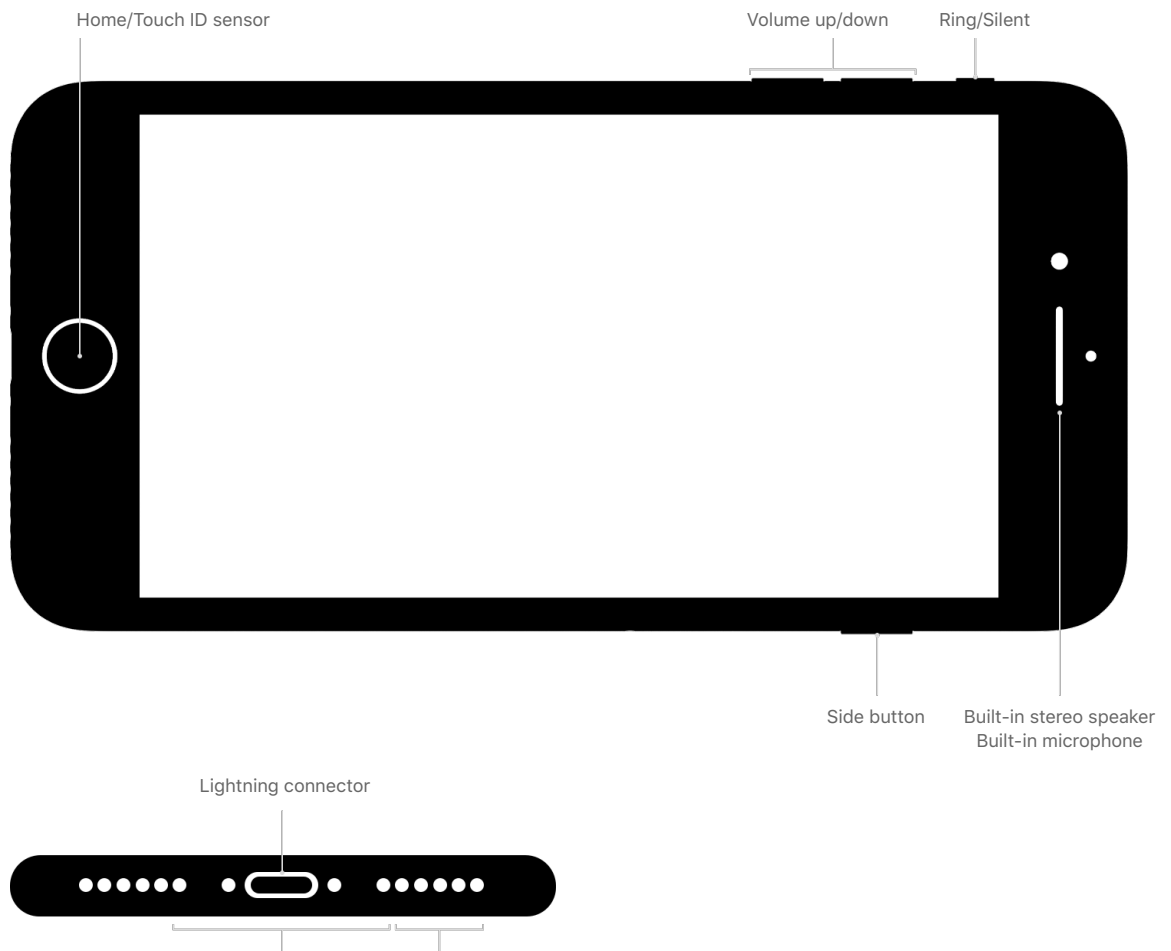
Activate hands-free with only your voice using "Hey Siri"

Use your voice to run shortcuts from your favorite apps

[Learn more about Siri >](#)

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## External Buttons and Connectors



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

Lasts about the same as iPhone 7

**Talk time (wireless):**

Up to 14 hours

**Internet use:**

Up to 12 hours

**Video playback (wireless):**

Up to 13 hours

**Audio playback (wireless):**

Up to 40 hours

**Fast-charge capable:**

Up to 50% charge in 30 minutes<sup>9</sup>  
with 18W adapter or higher (sold  
separately)

Lasts about the same as iPhone 7 Plus

**Talk time (wireless):**

Up to 21 hours

**Internet use:**

Up to 13 hours

**Video playback (wireless):**

Up to 14 hours

**Audio playback (wireless):**

Up to 60 hours

**Fast-charge capable:**

Up to 50% charge in 30 minutes<sup>9</sup>  
with 18W adapter or higher (sold  
separately)

**Both models:**

Built-in rechargeable lithium-ion battery

Wireless charging (works with Qi chargers<sup>10</sup>)

Charging via USB to computer system or power adapter

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## Sensors

Touch ID fingerprint sensor

Barometer

Three-axis gyro

Accelerometer

Proximity sensor

Ambient light sensor

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## Operating System

iOS 13

iOS is the world's most personal and secure mobile operating system, packed with powerful features and designed to protect your privacy.

See what's new in iOS 13 >

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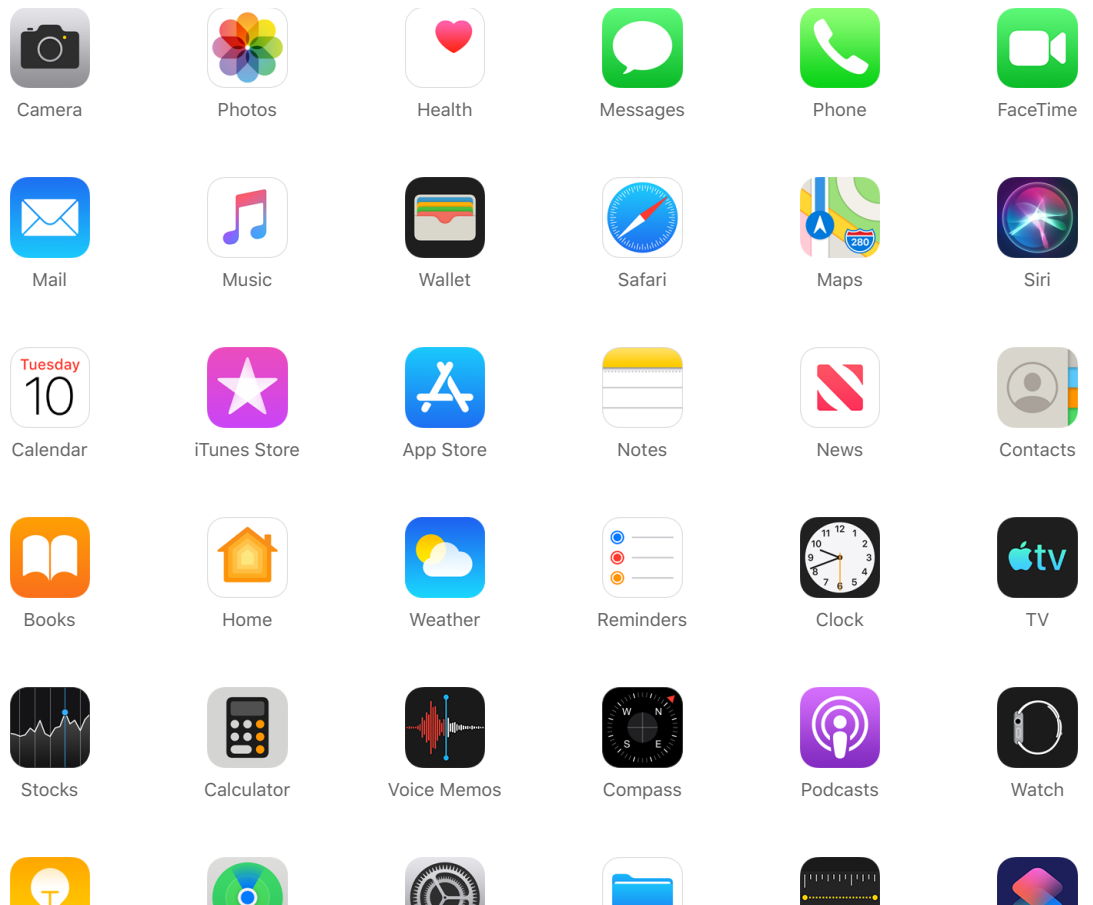
## Accessibility

Accessibility features help people with disabilities get the most out of their new iPhone 8. With built-in support for vision, hearing, mobility, and learning, you can fully enjoy the world's most personal device. [Learn more >](#)

### Features include:

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

## Built-in Apps







Tips



Find My



Settings



Files



Measure



Shortcuts

## Free Apps from Apple

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



iMovie



Pages



Keynote



Numbers



iTunes U



GarageBand



Apple Store



Trailers



Apple TV Remote



iTunes Remote



Music Memos



Clips



Support

## Headphones

EarPods with Lightning Connector



## SIM Card

Nano-SIM

iPhone 8 and iPhone 8 Plus are not compatible with existing micro-SIM cards.

## Rating for Hearing Aids

M3, T4

M3, T4

## 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 (USDZ Universal)

## System Requirements

Apple ID (required for some features)

Internet access<sup>1</sup>

Syncing to a Mac or a 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 12.9 or later (free download from [itunes.com/download](https://itunes.com/download))

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## 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)

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## 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 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 inputs

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), 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 (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, Shanghainese (China mainland), 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 with English**

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

### **Spell check**

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

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## **In the Box**

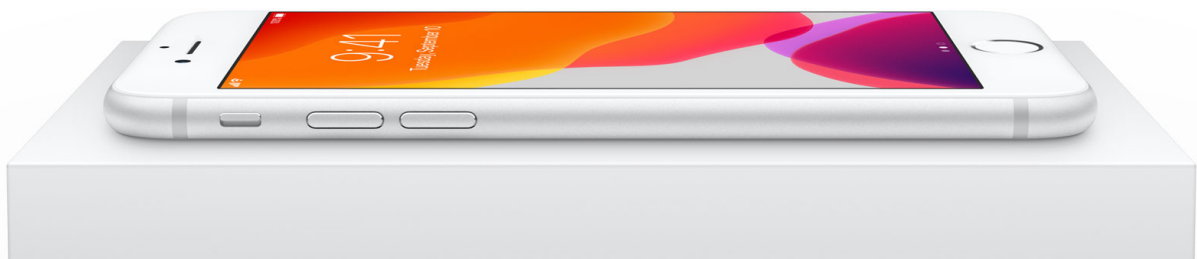
iPhone with iOS 13

EarPods with Lightning Connector

Lightning to USB Cable

USB Power Adapter

Documentation



# iPhone

## iPhone and the Environment



Apple takes a complete product life cycle approach to determining our environmental impact. [Learn more >](#)

**iPhone 8 and iPhone 8 Plus embody Apple's continuing environmental progress. They are designed with the following features to reduce environmental impact:**

- Arsenic-free display glass
- Mercury-free LED-backlit display
- Brominated flame retardant-free
- PVC-free
- Beryllium-free
- Highly recyclable aluminum

### Apple and the Environment

Read our Product Environmental Reports for detailed information on the environmental performance of every Apple product.

### Apple Trade In

If you're ready for your next iPhone, Apple Trade In is a great way to let go of your old one. If it's in good shape, you can trade it in for Apple Store credit. If it's not eligible for credit, we'll recycle it responsibly at no cost to you. Good for you. Good for the planet.

[Learn more >](#)



### Free delivery

Or pick up available items at an Apple Store.

[Learn more >](#)



### Find the card for you

Get 3% Daily Cash with Apple Card or get special financing.

[Learn more >](#)



### Get help buying

Have a question? Call a Specialist or chat online. Call 1-800-MY-APPLE.

[Contact us >](#)



### Personal Setup

We'll show you how to get the most out of your new iPhone, online or in store.

[Learn more >](#)


\* To identify your iPhone model number, see [support.apple.com/kb/HT3939](https://support.apple.com/kb/HT3939). For details on LTE support, contact your carrier and see [apple.com/iphone/LTE](https://apple.com/iphone/LTE). Cellular technology support is based on iPhone model number and configuration for either CDMA or GSM networks.

1. Available space is less and varies due to many factors. A standard configuration uses approximately 11GB to 14GB of space (including iOS 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. iPhone 8 and iPhone 8 Plus are splash, water, and dust resistant and were tested under controlled laboratory conditions with a rating of IP67 under IEC standard 60529 (maximum depth of 1 meter up to 30 minutes). Splash, water, and dust resistance are not permanent conditions and resistance might decrease as a result of normal wear. Do not attempt to charge a wet iPhone; refer to the user guide for cleaning and drying instructions. Liquid damage not covered under warranty.
4. 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.
5. Data plan required. LTE Advanced, LTE, VoLTE, 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/iphone/LTE](http://apple.com/iphone/LTE).
6. Standard Dynamic Range video content only.
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. All battery claims depend on network configuration and many other factors; actual results will vary. Battery has limited recharge cycles and may eventually need to be replaced by Apple service provider. Battery life and charge cycles vary by use and settings. See [apple.com/batteries](http://apple.com/batteries) and [apple.com/iphone/battery.html](http://apple.com/iphone/battery.html) for more information.
9. Testing conducted by Apple in August 2017 using preproduction iPhone 8 and iPhone 8 Plus units and software and accessory Apple USB-C Power Adapters (18W Model A1720, 29W Model A1540, 30W Model A1882, 61W Model A1718, 87W Model A1719). Fast-charge testing conducted with drained iPhone units. Charge time varies with environmental factors; actual results will vary.
10. Qi wireless chargers sold separately.
11. Wireless broadband recommended; fees may apply.

Some features may not be available for all countries or all areas. [View complete list](#).

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