

[Mac](#)[iPad](#)[iPhone](#)[Watch](#)[TV](#)[Music](#)[Support](#)

# Compare iPhone models

Use the drop-down menus to change models.

[See all models >](#)

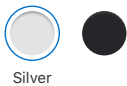
iPhone X



iPhone 8 Plus



iPhone 8



Silver



Silver

## 5.8"

Super Retina HD display<sup>2</sup>

## 5.5"

Retina HD display

# 12MP

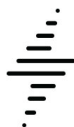
wide-angle and telephoto cameras



Face ID



A11 Bionic chip



Wireless charging  
(works with Qi chargers<sup>3</sup>)

# 12MP

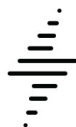
wide-angle and telephoto cameras



Touch ID



A11 Bionic chip



Wireless charging  
(works with Qi chargers<sup>3</sup>)

## Capacity<sup>4</sup>

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64GB

256GB

[Models and Pricing](#)

64GB

256GB

[Models and Pricing](#)

## Display

Super Retina HD display	Retina HD display
5.8-inch (diagonal) all-screen OLED Multi-Touch display <sup>2</sup>	5.5-inch (diagonal) widescreen LCD Multi-Touch display with IPS technology
HDR display	—
2436-by-1125-pixel resolution at 458 ppi	1920-by-1080-pixel resolution at 401 ppi
1,000,000:1 contrast ratio (typical)	1300:1 contrast ratio (typical)
True Tone display	True Tone display
Wide color display (P3)	Wide color display (P3)
3D Touch	3D Touch
625 cd/m2 max brightness (typical)	625 cd/m2 max brightness (typical)

## Size and Weight<sup>5</sup>

<b>Height</b> 6.65 inches (143.6 mm)	<b>Height</b> 6.24 inches (158.4 mm)
<b>Width</b> 2.79 inches (70.9 mm)	<b>Width</b> 3.07 inches (78.1 mm)
<b>Depth</b> 0.30 inch (7.7 mm)	<b>Depth</b> 0.30 inch (7.5 mm)
<b>Weight</b> 6.14 ounces (174 grams)	<b>Weight</b> 7.13 ounces (202 grams)

## Splash, Water, and Dust Resistant<sup>6</sup>



# Chip

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A11 Bionic chip with 64-bit architecture	A11 Bionic chip with 64-bit architecture
Neural engine	Neural engine
Embedded M11 motion coprocessor	Embedded M11 motion coprocessor

# Camera

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12MP wide-angle and telephoto cameras	12MP wide-angle and telephoto cameras
Wide-angle: $f/1.8$ aperture Telephoto: $f/2.4$ aperture	Wide-angle: $f/1.8$ aperture Telephoto: $f/2.8$ aperture
Dual optical image stabilization	Optical image stabilization
Optical zoom; digital zoom up to 10x	Optical zoom; digital zoom up to 10x
Wide color capture for photos and Live Photos	Wide color capture for photos and Live Photos
Quad-LED True Tone flash with Slow Sync	Quad-LED True Tone flash with Slow Sync
Portrait mode	Portrait mode
Portrait Lighting (beta)	Portrait Lighting (beta)

# Video Recording

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4K video recording at 24 fps, 30 fps, or 60 fps	4K video recording at 24 fps, 30 fps, or 60 fps
1080p HD video recording at 30 fps or 60 fps	1080p HD video recording at 30 fps or 60 fps
Optical image stabilization for video	Optical image stabilization for video
Optical zoom; digital zoom up to 6x	Optical zoom; digital zoom up to 6x

Slo-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization

Slo-mo video support for 1080p at 120 fps or 240 fps

Time-lapse video with stabilization

## Front Camera

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TrueDepth camera

7MP photos

*f*/2.2 aperture

Retina Flash

Wide color capture for photos and Live Photos

1080p HD video recording

Portrait mode

Portrait Lighting (beta)

Animoji

FaceTime HD camera

7MP photos

*f*/2.2 aperture

Retina Flash

Wide color capture for photos and Live Photos

1080p HD video recording

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## Carriers

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## Cellular and Wireless

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GSM/EDGE

UMTS/HSPA+

GSM/EDGE

UMTS/HSPA+

DC-HSDPA	DC-HSDPA
CDMA EV-DO Rev. A (some models)	CDMA EV-DO Rev. A (some models)
LTE Advanced <sup>7</sup>	LTE Advanced <sup>7</sup>
802.11ac Wi-Fi with MIMO	802.11ac Wi-Fi with MIMO
Bluetooth 5.0	Bluetooth 5.0
GPS, GLONASS, Galileo, and QZSS	GPS, GLONASS, Galileo, and QZSS
VoLTE <sup>7</sup>	VoLTE <sup>7</sup>
NFC with reader mode	NFC with reader mode
Wi-Fi calling <sup>7</sup>	Wi-Fi calling <sup>7</sup>

## Secure Authentication

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Face ID	Touch ID
Enabled by TrueDepth camera for facial recognition	Second-generation fingerprint sensor built into the Home button

## Apple Pay

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Pay with your iPhone using Face ID in stores, within apps, and on the web	Pay with your iPhone using Touch ID in stores, within apps, and on the web
Receive and redeem rewards using rewards cards	Receive and redeem rewards using rewards cards

## Video Calling<sup>8</sup>

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FaceTime video

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

## Audio Calling<sup>8</sup>

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FaceTime audio

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

Voice over LTE (VoLTE)<sup>7</sup>

Wi-Fi calling<sup>7</sup>

## Audio Playback

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**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+)

User-configurable maximum volume limit

**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+)

User-configurable maximum volume limit

## Video Playback

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

High Dynamic Range with Dolby Vision and HDR10 content

AirPlay Mirroring, photos, and video out to Apple TV (2nd generation or later)<sup>9</sup>

Video mirroring and video out support: Up

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>9</sup>

Video mirroring and video out support: Up

to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)<sup>9</sup>

to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)<sup>9</sup>

## Siri<sup>10</sup>

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

Get intelligent suggestions in Messages, Mail, QuickType, and more

Activate with only your voice using “Hey Siri”

Listen and identify songs

## Power and Battery<sup>11</sup>

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Lasts up to 2 hours longer than iPhone 7

Lasts about the same as iPhone 7 Plus

Built-in rechargeable lithium-ion battery

Built-in rechargeable lithium-ion battery

Wireless charging (works with Qi chargers<sup>3</sup>)

Wireless charging (works with Qi chargers<sup>3</sup>)

Charging via USB to computer system or power adapter

Charging via USB to computer system or power adapter

**Talk time (wireless):**

Up to 21 hours

**Talk time (wireless):**

Up to 21 hours

**Internet use:**

Up to 12 hours

**Internet use:**

Up to 13 hours

**Video playback (wireless):**

Up to 13 hours

**Video playback (wireless):**

Up to 14 hours

**Audio playback (wireless):**

Up to 60 hours

**Audio playback (wireless):**

Up to 60 hours

**Fast-charge capable:**

Up to 50% charge 30 minutes<sup>12</sup>

**Fast-charge capable:**

Up to 50% charge 30 minutes<sup>12</sup>



## Included Headphones

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EarPods with Lightning Connector

Lightning to 3.5 mm Headphone Jack  
Adapter

EarPods with Lightning Connector

Lightning to 3.5 mm Headphone Jack  
Adapter

## Sensors

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Three-axis gyro

Accelerometer

Proximity sensor

Ambient light sensor

Barometer

Three-axis gyro

Accelerometer

Proximity sensor

Ambient light sensor

Barometer

## SIM Card

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Nano-SIM

Not compatible with existing micro-SIM cards

## Connector

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Lightning