## Compare iPad models



12.9-in. iPad Pro

Buy now

Color

Color

11-in.iPad Pro

Buy now

Liquid Retina display<sup>1</sup>

ProMotion technology

and True Tone display

Face ID

**A12X** 

Up to

1TB

Compatible with

(2nd generation)

Compatible with Smart

Keyboard Folio and

Bluetooth keyboards

Size and Weight<sup>3</sup>

9.74 inches (247.6 mm)

7.02 inches (178.5 mm)

1.03 pounds (468 grams)

Weight (Wi-Fi + Cellular)

1.03 pounds (468 grams)

LED-backlit with Multi-Touch

Fingerprint-resistant oleophobic

2388-by-1668 resolution

Fully laminated display

Antireflective coating

ProMotion technology

Wide color display (P3)

A12X Bionic chip with

64-bit desktop-class

True Tone display

architecture

Neural Engine

coprocessor

Apple Pencil

(2nd generation)

**Smart Keyboard** 

Smart Keyboard Folio

Compatibility

**Back Camera** 

Quad-LED True Tone flash

Autofocus with Focus Pixels

Tap to focus with Focus Pixels

**Front Camera** 

TrueDepth camera

7-megapixel photos

Animoji and Memoji

1080p HD video recording

Backside illumination

FaceTime video calling

**Video Recording** 

over Wi-Fi or cellular4

4K video recording at

1080p at 120 fps and

Slo-mo video support for

Time-lapse video with stabilization

Cinematic video stabilization

Continuous autofocus video

30 fps or 60 fps

720p at 240 fps

3x video zoom

Backside illumination

Four speaker audio

Authentication

Enabled by TrueDepth

Pay with your iPad using

Use your voice to send

Activate with only your

voice using "Hey Siri"

Listen and identify songs

**Cellular and Wireless** 

Wi-Fi (802.11a/b/g/n/ac);

Bluetooth 5.0 technology

UMTS/HSPA/HSPA+/

GPS, GLONASS, Galileo,

(supports Apple SIM<sup>7</sup>)

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

Gigabit-class LTE

(up to 29 bands)<sup>5</sup>

simultaneous dual band

(2.4GHz and 5GHz)

Wi-Fi + Cellular

GSM/EDGE

DC-HSDPA

and QZSS

Data only<sup>6</sup>

Wi-Fi calling<sup>5</sup>

SIM Card

Nano-SIM

eSIM<sup>7</sup>

messages, set reminders,

Face ID within apps and on

camera for facial

recognition

**Apple Pay** 

the web

Siri

and more

All models

MIMO

Video geotagging

Audio

Secure

Face ID

Smart HDR for photos and videos

Portrait mode

Live Photos

Retina Flash

Burst mode

Portrait Lighting

Wide color capture for photos and Live

12-megapixel photos

Backside illumination

Five-element lens

Exposure control

Panorama

Burst mode

Timer mode

Photo geotagging

Smart HDR for photos

(up to 63 megapixels)

Hybrid IR filter

f/1.8 aperture

stabilization

Live Photos with

Embedded M12

**Apple Pencil** 

Compatibility

0.23 inch (5.9 mm)

Weight (Wi-Fi)

**Display** 

264 ppi

coating

Chip

Liquid Retina display

11-inch (diagonal)1

and IPS technology

Apple Pencil

Capacity<sup>2</sup>

64GB

256GB

512GB

Height

Width

Depth

1TB

A12X Bionic chip

with Neural Engine

iPad Air

Buy now

10.5<sup>11</sup>

True Tone display

Laminated display and

Retina display

Touch ID

**A12** 

A12 Bionic chip with

256GB

Compatible with

(1st generation)

Compatible with Smart

Keyboard (10.5-inch)

Size and Weight<sup>3</sup>

9.8 inches (250.6 mm)

6.8 inches (174.1 mm)

1.0 pound (456 grams)

Weight (Wi-Fi + Cellular)

1.02 pounds (464 grams)

LED-backlit with Multi-Touch

Fingerprint-resistant oleophobic

0.24 inch (6.1 mm)

Weight (Wi-Fi)

Display

264 ppi

coating

Chip

Liquid Retina display

10.5-inch (diagonal)

and IPS technology

2224-by-1668 resolution

Fully laminated display

Wide color display (P3)

A12 Bionic chip with

64-bit desktop-class

True Tone display

architecture

Neural Engine

coprocessor

Apple Pencil

(1st generation)

Embedded M12

**Apple Pencil** 

Compatibility

**Smart Keyboard** 

Compatibility

**Back Camera** 

8-megapixel photos

Backside illumination

Five-element lens

Hybrid IR filter

Tap to focus

**Exposure control** 

HDR for photos

(up to 43 megapixels)

Photo geotagging

**Front Camera** 

1080p HD video recording

Backside illumination

FaceTime video calling

**Video Recording** 

1080p HD video recording

Slo-mo video support for

Time-lapse video with

Tap to focus while recording

720p at 120 fps

Video stabilization

3x video zoom

Backside illumination

Two speaker audio

Authentication

Fingerprint identity sensor

built into the Home button

Pay with your iPad using

Use your voice to send

Activate with only your

voice using "Hey Siri"

Listen and identify songs

**Cellular and Wireless** 

Wi-Fi (802.11a/b/g/n/ac);

simultaneous dual band

Bluetooth 5.0 technology

(2.4GHz and 5GHz)

Wi-Fi + Cellular

messages, set reminders,

Face ID within apps and on

Video geotagging

Audio

Secure

Face ID

**Apple Pay** 

the web

and more

All models

MIMO

Siri

stabilization

over Wi-Fi or cellular4

Auto HDR for photos and videos

FaceTime HD camera

7-megapixel photos

**Live Photos** 

Retina Flash

Burst mode

Autofocus

Panorama

Burst mode

Timer mode

f/2.4 aperture

**Live Photos** 

Smart Keyboard

Antireflective coating

and Bluetooth

keyboards

Capacity<sup>2</sup>

64GB

256GB

Height

Width

Depth

Apple Pencil

**Neural Engine** 

Up to

Color

**iPad** 

Buy now

Color

Color

Buy now

iPad mini

**7.9**<sup>11</sup>

Retina display

True Tone display

Laminated display and

12.911

Liquid Retina display<sup>1</sup> ProMotion technology

and True Tone display

Face ID

A12X Bionic chip with Neural Engine

**A12X** 

Up to 1TB

Apple Pencil (2nd generation)

Compatible with

Capacity<sup>2</sup>

64GB

256GB

512GB

Height

Width

Keyboard Folio and Bluetooth keyboards

Compatible with Smart

1TB Size and Weight<sup>3</sup>

11.04 inches (280.6 mm)

Depth 0.23 inch (5.9 mm) Weight (Wi-Fi) 1.39 pounds (631 grams)

8.46 inches (214.9 mm)

1.4 pounds (633 grams) **Display** Liquid Retina display

LED-backlit with Multi-Touch

12.9-inch (diagonal)<sup>1</sup>

and IPS technology

2732-by-2048 resolution

Weight (Wi-Fi + Cellular)

264 ppi Fingerprint-resistant oleophobic coating Fully laminated display Antireflective coating ProMotion technology

Wide color display (P3) True Tone display Chip A12X Bionic chip with 64-bit desktop-class architecture

Neural Engine Embedded M12 coprocessor

Apple Pencil Compatibility Apple Pencil

**Smart Keyboard** Compatibility Smart Keyboard Folio

(2nd generation)

**Back Camera** 12-megapixel photos f/1.8 aperture Live Photos with stabilization

Quad-LED True Tone flash Wide color capture for photos and Live Photos Backside illumination Five-element lens

Hybrid IR filter **Autofocus with Focus Pixels** Tap to focus with Focus Pixels **Exposure control** Smart HDR for photos Panorama (up to 63 megapixels) Burst mode Timer mode Photo geotagging

**Front Camera** TrueDepth camera 7-megapixel photos Portrait mode Portrait Lighting Animoji and Memoji **Live Photos** Retina Flash 1080p HD video recording Smart HDR for photos and videos Backside illumination Burst mode FaceTime video calling over Wi-Fi or cellular4

Video Recording

4K video recording at

1080p at 120 fps and

Slo-mo video support for

Time-lapse video with stabilization

Cinematic video stabilization

Continuous autofocus video

30 fps or 60 fps

720p at 240 fps

3x video zoom

Backside illumination Video geotagging Audio

Four speaker audio

Secure Authentication Face ID Enabled by TrueDepth camera for facial recognition

**Apple Pay** 

the web Siri Use your voice to send messages, set reminders,

Pay with your iPad using

Face ID within apps and on

and more Activate with only your voice using "Hey Siri"

Listen and identify songs

**Cellular and Wireless** All models

Wi-Fi (802.11a/b/g/n/ac);

simultaneous dual band (2.4GHz and 5GHz) MIMO Bluetooth 5.0 technology

Wi-Fi + Cellular GSM/EDGE UMTS/HSPAHSPA+/

DC-HSDPA Gigabit-class LTE (up to 29 bands)<sup>5</sup>

GPS, GLONASS, Galileo, and QZSS Data only<sup>6</sup> Wi-Fi calling<sup>5</sup>

SIM Card Nano-SIM (supports Apple SIM<sup>7</sup>) eSIM<sup>7</sup>

**Power and Battery**<sup>8</sup> 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 cellular data network

Charging via USB-C to computer system or power adapter

Sensors Face ID Three-axis gyro

Ambient light sensor

is less.

Barometer

Accelerometer

adapter Sensors Face ID Three-axis gyro

Accelerometer

Barometer

Preinstalled apps use about 4GB, and you can delete these apps and restore them.

Size and weight vary by configuration and manufacturing process.

Ambient light sensor

network Charging via USB-C to computer system or power

Up to 9 hours of surfing the web using cellular data

the web on Wi-Fi, watching video, or listening to music

Up to 10 hours of surfing

the web on Wi-Fi, watching video, or listening to music network Charging via USB to adapter

Sensors

Three-axis gyro

Accelerometer

Barometer

Ambient light sensor

Touch ID

Up to 9 hours of surfing

the web using cellular data computer system or power

Up to 9 hours of surfing

Power and Battery<sup>8</sup> Up to 10 hours of surfing

Charging via USB to

computer system or power adapter Sensors

Touch ID Accelerometer

Three-axis gyro

2. Available space is less and varies due to many factors. A standard configuration uses approximately 10GB to 12GB of space (including iOS and preinstalled apps) depending on the model and settings. 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. Data plan required. Gigabit-class LTE, 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

Barometer

Retina display

A10

Fusion chip

128GB

Compatible with

(1st generation)

Compatible with

Bluetooth keyboards

Size and Weight<sup>3</sup>

9.4 inches (240 mm)

6.6 inches (169.5 mm)

1.03 pounds (469 grams)

Weight (Wi-Fi + Cellular)

1.05 pounds (478 grams)

0.29 inch (7.5 mm)

Weight (Wi-Fi)

Apple Pencil

Capacity<sup>2</sup>

32GB

Height

Width

Depth

coating

**A10** 

Up to

Touch ID Touch ID

**A12** A12 Bionic chip with

Up to 256GB

Compatible with

(1st generation)

Apple Pencil

**Neural Engine** 

Compatible with Bluetooth keyboards

Capacity<sup>2</sup>

Size and Weight<sup>3</sup>

8.0 inches (203.2 mm)

5.3 inches (134.8 mm)

0.66 pound (300.5 grams)

Weight (Wi-Fi + Cellular)

0.68 pound (308.2 grams)

LED-backlit with Multi-Touch

Fingerprint-resistant oleophobic

0.24 inch (6.1 mm)

Weight (Wi-Fi)

**Display** 

326 ppi

coating

Chip

Liquid Retina display

7.9-inch (diagonal)

and IPS technology

2048-by-1536 resolution

Fully laminated display

Wide color display (P3)

A12 Bionic chip with

64-bit desktop-class

True Tone display

architecture

Neural Engine

coprocessor

Apple Pencil

(1st generation)

Embedded M12

**Apple Pencil** 

Compatibility

**Smart Keyboard** 

Compatibility

**Back Camera** 

8-megapixel photos

Backside illumination

Five-element lens

**Exposure control** 

(up to 43 megapixels)

Photo geotagging

**Front Camera** 

1080p HD video recording

Backside illumination

FaceTime video calling

Video Recording

1080p HD video recording

Slo-mo video support for

Time-lapse video with

Tap to focus while recording

Video stabilization

3x video zoom

Backside illumination

Two speaker audio

Authentication

Fingerprint identity sensor

built into the Home button

Pay with your iPad using

Use your voice to send

Activate with only your

Listen and identify songs

**Cellular and Wireless** 

Wi-Fi (802.11a/b/g/n/ac);

Bluetooth 5.0 technology

simultaneous dual band

(2.4GHz and 5GHz)

Wi-Fi + Cellular

voice using "Hey Siri"

messages, set reminders,

Face ID within apps and on

Video geotagging

Audio

Secure

Face ID

**Apple Pay** 

the web

and more

All models

MIMO

Siri

720p at 120 fps

stabilization

over Wi-Fi or cellular4

Auto HDR for photos and videos

FaceTime HD camera

7-megapixel photos

Live Photos

Retina Flash

Burst mode

HDR for photos

Hybrid IR filter

Autofocus

Panorama

Burst mode

Timer mode

Tap to focus

f/2.4 aperture

Live Photos

Antireflective coating

64GB

Height

Width

Depth

128GB 256GB

**Display** Liquid Retina display 9.7-inch (diagonal) LED-backlit with Multi-Touch and IPS technology 2048-by-1536 resolution 264 ppi Fingerprint-resistant oleophobic

Chip A10 Fusion fourthgeneration chip with 64-bit desktop-class architecture

Embedded M10 coprocessor **Apple Pencil** Compatibility Apple Pencil

(1st generation) **Smart Keyboard** Compatibility

**Back Camera** 

8-megapixel photos

Backside illumination

Five-element lens

Hybrid IR filter

f/2.4 aperture

Live Photos

Autofocus Tap to focus **Exposure control** HDR for photos Panorama (up to 43 megapixels) Burst mode Timer mode Photo geotagging

**Front Camera** 

FaceTime HD camera

1.2-megapixel photos

720p HD video recording

Backside illumination

HDR for photos and videos

Live Photos

Retina Flash

Burst mode FaceTime video calling over Wi-Fi or cellular4 Video Recording 1080p HD video recording Slo-mo video support for 720p at 120 fps Time-lapse video with stabilization Video stabilization

Tap to focus while recording

3x video zoom

Backside illumination

Video geotagging Audio Two speaker audio Secure Authentication Face ID Fingerprint identity sensor built into the Home button

**Apple Pay** 

the web

Siri

Use your voice to send messages, set reminders, and more Activate with only your voice using "Hey Siri" Listen and identify songs

**Cellular and Wireless** 

Pay with your iPad using

Face ID within apps and on

All models Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz) Bluetooth 4.2 technology Wi-Fi + Cellular

> Nano-SIM (supports Apple SIM<sup>7</sup>) eSIM<sup>7</sup> Power and Battery<sup>8</sup> 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 cellular data network

Ambient light sensor Barometer 1. The displays have rounded corners. When measured as a rectangle, the iPad Pro 12.9-inch screen is 12.9 inches diagonally and the iPad Pro 11-inch screen is 11 inches diagonally. Actual viewable area

GSM/EDGE GSM/EDGE GSM/EDGE CDMA EV-DO Rev. A UMTS/HSPA/HSPA+/ UMTS/HSPA/HSPA+/ UMTS/HSPA/HSPA+/ DC-HSDPA DC-HSDPA DC-HSDPA LTE Gigabit-class LTE Gigabit-class LTE (22 bands)<sup>5</sup> (up to 28 bands)<sup>5</sup> (up to 28 bands)<sup>5</sup> **GPS and GLONASS GPS and GLONASS GPS and GLONASS** Data only<sup>6</sup> Data only<sup>6</sup> Data only<sup>6</sup> Wi-Fi calling<sup>5</sup> Wi-Fi calling<sup>5</sup> Wi-Fi calling<sup>5</sup> SIM Card SIM Card SIM Card Nano-SIM Nano-SIM (supports Apple SIM<sup>7</sup>) (supports Apple SIM<sup>7</sup>) eSIM<sup>7</sup> Includes Apple SIM<sup>7</sup>

MIMO

Power and Battery<sup>8</sup> Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music

> the web using cellular data network Charging via USB to computer system or power adapter

Sensors Touch ID Three-axis gyro

Accelerometer Ambient light sensor

and carrier. For details on LTE support, contact your carrier and see www.apple.com/ipad/LTE. 6. 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. 7. Not all carriers support Apple SIM and eSIM. See your carrier for more details. Not available in China. The eSIM technology works with the 11-inch iPad Pro, 12.9-inch iPad Pro (3rd generation), iPad Air (3rd generation), and iPad mini (5th generation). Apple SIM works with the 9.7-inch iPad Pro, 10.5-inch iPad Pro, iPad (5th generation or later), iPad Air 2, iPad mini 3, and iPad mini 4. 8. Battery life varies by use and configuration. See www.apple.com/batteries for more information.