## MacBook Pro 16″

Overview        Tech Specs        Buy

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## Price

$2399                                              $2799

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## Finish

Silver                        Space Gray

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## Display

**Retina display**

16-inch (diagonal) LED-backlit display with IPS technology; 3072-by-1920 native resolution at 226 pixels per inch with support for millions of colors

Supported scaled resolutions:

- 2048 by 1280
- 1792 by 1120
- 1344 by 840
- 1152 by 720

500 nits brightness

Wide color (P3)

True Tone technology

Refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz

## Processor

2.6GHz 6-core Intel Core i7, Turbo Boost up to 4.5GHz, with 12MB shared L3 cache

Configurable to 2.4GHz 8-core Intel Core i9, Turbo Boost up to 5.0GHz, with 16MB shared L3 cache

2.3GHz 8-core Intel Core i9, Turbo Boost up to 4.8GHz, with 16MB shared L3 cache

Configurable to 2.4GHz 8-core Intel Core i9, Turbo Boost up to 5.0GHz, with 16MB shared L3 cache

## Storage[1]

512GB

512GB SSD

Configurable to 1TB, 2TB, 4TB, or 8TB SSD

1TB

1TB SSD

Configurable to 2TB, 4TB, or 8TB SSD

## Memory

16GB

16GB of 2666MHz DDR4 onboard memory

Configurable to 32GB or 64GB of memory

## Graphics

AMD Radeon Pro 5300M with 4GB of GDDR6 memory and automatic graphics switching

Intel UHD Graphics 630

Configurable to AMD Radeon Pro 5500M with 4GB of GDDR6 memory, AMD Radeon Pro 5500M with 8GB of GDDR6 memory, or AMD Radeon Pro 5600M with 8GB of HBM2 memory

AMD Radeon Pro 5500M with 4GB of GDDR6 memory and automatic graphics switching

Intel UHD Graphics 630

Configurable to AMD Radeon Pro 5500M with 8GB of GDDR6 memory or AMD Radeon Pro 5600M with 8GB of HBM2 memory

## Charging and Expansion

Four Thunderbolt 3 (USB-C) ports with support for:

Charging

DisplayPort

Thunderbolt (up to 40Gb/s)

USB 3.1 Gen 2 (up to 10Gb/s)

Thunderbolt 3

Headphone

Thunderbolt 3

## Keyboard and Trackpad

**Backlit Magic Keyboard with:**

65 (U.S.) or 66 (ISO) keys including 4 arrow keys in an inverted-T arrangement

Touch Bar

Touch ID sensor

Ambient light sensor

Force Touch trackpad for precise cursor control and pressure-sensing capabilities; enables Force clicks, accelerators, pressure-sensitive drawing, and Multi-Touch gestures

Touch Bar

Force Touch trackpad

## Wireless

**Wi-Fi**

802.11ac Wi-Fi wireless networking

IEEE 802.11a/b/g/n compatible

**Bluetooth**

Bluetooth 5.0 wireless technology

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## Camera

720p FaceTime HD camera

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## Video Support

**Simultaneously supports full native resolution on the built-in display at millions of colors and:**

Up to two displays with 6016-by-3384 resolution at 60Hz at over a billion colors or

Up to four displays with 4096-by-2304 resolution at 60Hz at over a billion colors

**Thunderbolt 3 digital video output**

Native DisplayPort output over USB-C

VGA, HDMI, DVI, and Thunderbolt 2 output supported using adapters (sold separately)

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## Audio

High-fidelity six-speaker system with force-cancelling woofers

Wide stereo sound

Support for Dolby Atmos playback

Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming

3.5 mm headphone jack

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## Battery and Power[2]

Up to 11 hours wireless web

Up to 11 hours Apple TV app movie playback

Up to 30 days of standby time

Built-in 100-watt-hour lithium-polymer battery[2]

96W USB-C Power Adapter

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## Operating Requirements

**Line voltage:** 100V to 240V AC

**Frequency:** 50Hz to 60Hz

**Operating temperature:** 50° to 95° F (10° to 35° C)

**Storage temperature:** -13° to 113° F (-25° to 45° C)

**Relative humidity:** 0% to 90% noncondensing

**Operating altitude:** tested up to 10,000 feet

**Maximum storage altitude:** 15,000 feet

**Maximum shipping altitude:** 35,000 feet

## Size and Weight

**Height:** 0.64 inch (1.62 cm)

**Width:** 14.09 inches (35.79 cm)

**Depth:** 9.68 inches (24.59 cm)

**Weight:** 4.3 pounds (2.0 kg)[3]

14.09 inches
(35.79 cm)

9.68 inches
(24.59 cm)

0.64 inch
(1.62 cm)

## Operating System

**macOS**
macOS is the most advanced desktop operating system in the world. macOS Big Sur introduces a bold new design and major updates to apps — taking macOS to a new level of power and beauty.

Learn more ›

## Accessibility

Accessibility features help people with disabilities get the most out of their new MacBook Pro. With built-in support for vision, hearing, mobility, and learning, you can create and do amazing things.

Learn more ›

**Features include:**

- Voice Control
- VoiceOver

- Zoom
- Increase Contrast

- Reduce Motion
- Siri and Dictation

- Switch Control
- Closed Captions
- Text to Speech

## Built-in Apps[4]

| | | | | | |
|---|---|---|---|---|---|
| Photos | iMovie | GarageBand | Pages | Numbers | Keynote |
| Siri | Safari | Mail | FaceTime | Messages | Maps |
| News | Stocks | Home | Voice Memos | Notes | Calendar |
| Contacts | Reminders | Photo Booth | Preview | Music | Podcasts |
| TV | Books | App Store | Time Machine | Find My | QuickTime Player |

## In the Box

16-inch MacBook Pro

96W USB-C Power Adapter

USB-C Charge Cable (2 m)

## Limited Warranty and Service

Your MacBook Pro comes with 90 days of complimentary technical support and a one-year limited warranty. Purchase AppleCare+ for Mac to extend your coverage to three years from your AppleCare+ purchase date and add up to two incidents of accidental damage coverage, each subject to a service fee of $99 for screen damage or external enclosure damage, or $299 for other repairable damage, plus applicable tax.

Learn more ›

## Configure to Order

Configure your MacBook Pro with these options, only at apple.com:

2.4GHz 8-core Intel Core i9, Turbo Boost up to 5.0GHz, with 16MB shared L3 cache

32GB or 64GB of 2666MHz DDR4 memory

AMD Radeon Pro 5500M with 4GB of GDDR6 memory

AMD Radeon Pro 5500M with 8GB of GDDR6 memory

AMD Radeon Pro 5600M with 8GB of HBM2 memory

1TB, 2TB, 4TB, or 8TB SSD

# MacBook Pro and the Environment

Apple takes a complete product life cycle approach to determining our environmental impact. Learn more ›

**MacBook Pro is designed with the following features to reduce its environmental impact:**

- Mercury-free LED-backlit display
- Arsenic-free display glass
- BFR-free
- PVC-free[5]
- Beryllium-free
- Highly recyclable aluminum enclosure
- Meets ENERGY STAR requirements
- Rated EPEAT Gold[6]

**Apple and the Environment**

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

**Apple Trade In**
Letting go of your old Mac is easy. 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 ›

# Accessories

**Mac Software**

Final Cut Pro X

Logic Pro X

**Displays and Adapters**

Pro Display XDR

LG UltraFine 4K Display

LG UltraFine 5K Display

Thunderbolt 3 (USB-C) to Thunderbolt 2
Adapter

USB-C to USB Adapter

USB-C to SD Card Reader

USB-C Digital AV Multiport Adapter

USB-C VGA Multiport Adapter

USB-C to Gigabit Ethernet Adapter

**Other Accessories**

USB-C to Lightning Cable

USB-C Charge Cable

96W USB-C Power Adapter

16-inch MacBook Pro Leather Sleeve

Blackmagic eGPU

Blackmagic eGPU Pro

Magic Keyboard

Magic Keyboard with Numeric Keypad

Magic Trackpad 2

Magic Mouse 2

AppleCare+ for Mac

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1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.

2. Actual rating of 99.8 watt-hours. Testing conducted by Apple in October 2019 using preproduction 2.3GHz 8-core Intel Core i9-based 16-inch MacBook Pro systems with 16GB of RAM and 1TB SSD. The wireless web test measures battery life by wirelessly browsing 25 popular websites with display brightness set to 12 clicks from bottom or 75%. The Apple TV app movie playback test measures battery life by playing back HD 1080p content with display brightness set to 12 clicks from bottom or 75%. The standby test measures battery life by allowing a system, connected to a wireless network and signed in to an iCloud account, to enter standby mode with Safari and Mail applications launched and all system settings left at default. Battery life varies by use and configuration. See apple.com/batteries for more information.

3. Weight varies by configuration and manufacturing process.

4. iMovie, GarageBand, Pages, Numbers, and Keynote are available on the Mac App Store. Downloading apps requires an Apple ID and a device that is compatible with the OS version required for each app.

5. PVC-free AC power cord available in all regions except India and South Korea.

6. MacBook Pro achieved a Gold rating from EPEAT in the U.S. and Canada.

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Mac     MacBook Pro     MacBook Pro 16-inch     Technical Specifications

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