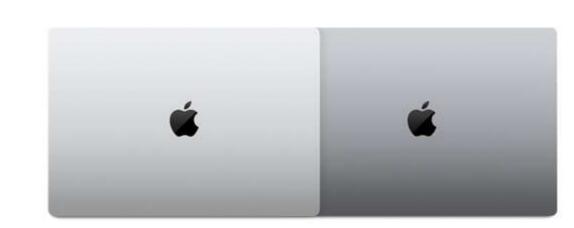
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14-inch

16-inch



Finish



Silver Space Gray

Price \$2499 \$2699

Chip



\$3499

Apple M2 Pro chip

12-core CPU with 8 performance cores and 4 efficiency cores

19-core GPU 16-core Neural Engine 200GB/s memory

Media engine

bandwidth

Hardware-accelerated H.264, HEVC, ProRes, and ProRes RAW

Video decode engine Video encode engine ProRes encode and decode engine

and 38-core GPU

Apple M2 Pro chip

12-core CPU with 8 performance cores and 4 efficiency cores 19-core GPU

16-core Neural Engine 200GB/s memory bandwidth

Media engine

Hardware-accelerated H.264, HEVC, ProRes, and ProRes RAW

Video encode engine ProRes encode and decode engine

Video decode engine

Apple M2 Max chip

12-core CPU with 8 performance cores and 4 efficiency cores 38-core GPU 16-core Neural Engine 400GB/s memory bandwidth

Media engine

decode engines

Hardware-accelerated H.264, HEVC, ProRes, and ProRes RAW Video decode engine Two video encode engines Two ProRes encode and

14" and 16" models MacBook Pro

ana 00 0010 01 0 01 M2 Max with 12-core CPU

and 38-core GPU

Overview Tech Specs Compare New to Mac 4114 00 0010 01 0 01 M2 Max with 12-core CPU

Display

Liquid Retina XDR display

16.2-inch (diagonal) Liquid Retina XDR display; 3456-by-2234 native resolution at 254 pixels per inch



XDR (Extreme Dynamic Range)

1,000,000:1 contrast ratio

XDR brightness: 1000 nits sustained full-screen, 1600 nits peak² (HDR content only) SDR brightness: 500 nits

Color

1 billion colors Wide color (P3)

True Tone technology

Refresh rates

ProMotion technology for adaptive refresh rates up to 120Hz Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz

Memory

16GB 16GB unified memory 16GB

16GB unified memory

32GB unified memory

Configurable to:

Configurable to:

Configurable to:

32GB

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32GB (M2 Pro or M2 Max), 64GB (M2 Max), or 96GB (M2 Max with 38-core GPU) 32GB (M2 Pro or M2 Max), 64GB (M2 Max), or 96GB (M2 Max with 38-core GPU) 64GB (M2 Max) or 96GB (M2 Max with 38-core GPU)

Battery and Power³

Up to 22 hours Apple TV app movie playback

Up to 15 hours wireless web

USB-C to MagSafe 3 Cable

100-watt-hour lithium-polymer battery³ 140W USB-C Power Adapter

Fast-charge capable with included 140W USB-C Power Adapter

Storage⁴

 512GB
 1TB
 1TB

 512GB SSD
 1TB SSD
 1TB SSD

Configurable to:Configurable to:Configurable to:1TB, 2TB, 4TB, or 8TB2TB, 4TB, or 8TB2TB, 4TB, or 8TB

Charging and Expansion

SDXC card slot

HDMI port

3.5 mm headphone jack MagSafe 3 port

Three Thunderbolt 4 (USB-C) ports with support for:

Charging
DisplayPort

DisplayPort

Thunderbolt 4 (up to 40Gb/s)
USB 4 (up to 40Gb/s)





Display Support

M2 Pro

Simultaneously supports full native resolution on the built-in display at 1 billion colors and:

Up to two external displays with up to 6K resolution at 60Hz over Thunderbolt, or one external display with up to 6K resolution at 60Hz over Thunderbolt and one external display with up to

4K resolution at 144Hz over HDMI

One external display supported at 8K resolution at 60Hz or one external display at 4K

resolution at 240Hz over HDMI

M2 Max

Simultaneously supports full native resolution on the built-in display at 1 billion colors and:

Up to four external displays: Up to three external displays with 6K resolution at 60Hz over Thunderbolt and one external display with up to 4K resolution at 144Hz over HDMI

Up to three external displays: Up to two external displays with 6K resolution at 60Hz over Thunderbolt and one external display with up to 8K resolution at 60Hz or one external display with 4K resolution at 240Hz over HDMI

Thunderbolt 4 digital video output

Support for native DisplayPort output over USB-C

HDMI digital video output

Support for one display with up to 8K resolution at 60Hz or 4K resolution at 240Hz

Video Playback

Supported formats include HEVC, H.264, and ProRes

HDR with Dolby Vision, HDR10, and HLG

Audio Playback

Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus, and Dolby Atmos

Keyboard and Trackpad

Backlit Magic Keyboard with:

78 (U.S.) or 79 (ISO) keys including 12 full-height function keys and 4 arrow keys in an

inverted-T arrangement

Touch ID

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



Wireless

Wi-Fi

Wi-Fi 6E (802.11ax)⁵

Bluetooth

Bluetooth 5.3

Camera

1080p FaceTime HD camera

Advanced image signal processor with computational video

Audio

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

Wide stereo sound

Support for Spatial Audio when playing music or video with Dolby Atmos on built-in speakers Spatial Audio with dynamic head tracking when using AirPods (3rd generation), AirPods Pro, and AirPods Max

Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming
3.5 mm headphone jack with advanced support for high-impedance headphones
HDMI port supports multichannel audio output

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 0.66 inch (1.68 cm)

Width: 14.01 inches (35.57 cm)

Depth: 9.77 inches (24.81 cm)

Weight (M2 Pro): 4.7 pounds (2.15 kg)⁶

Weight (M2 Max): 4.8 pounds (2.16 kg)⁶



9.77 inches (24.81 cm)

14.01 inches (35.57 cm)



Operating System

macOS is the most advanced desktop operating system in the world. macOS Ventura makes the things you do most on Mac even better, so you can work smarter, play harder, and go further.

Learn more >

macOS

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 >

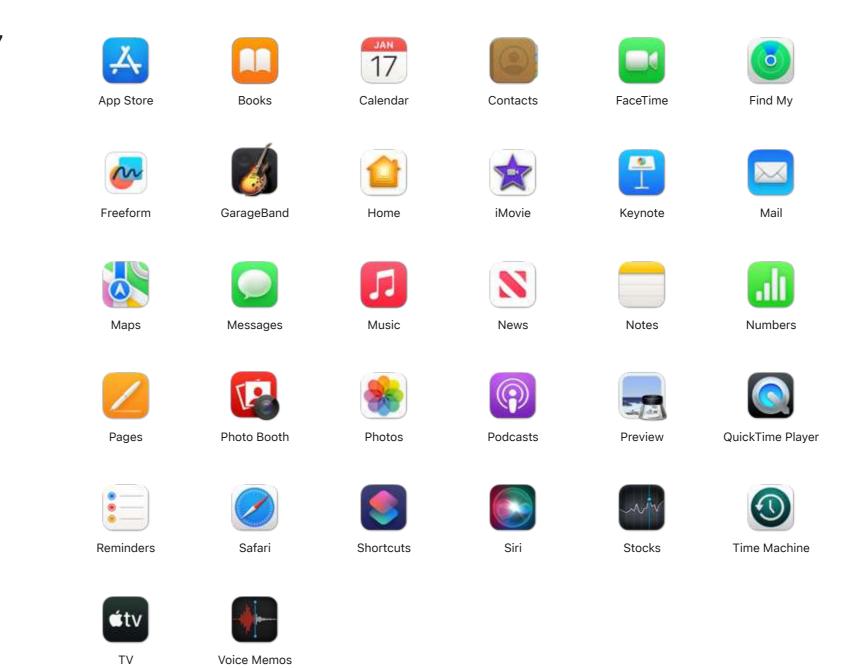
Features include:

Voice ControlIncrease ContrastSwitch ControlVoiceOverReduce MotionClosed CaptionsZoomSiri and DictationText to Speech

https://www.apple.com/macbook-pro-14-and-16/specs/

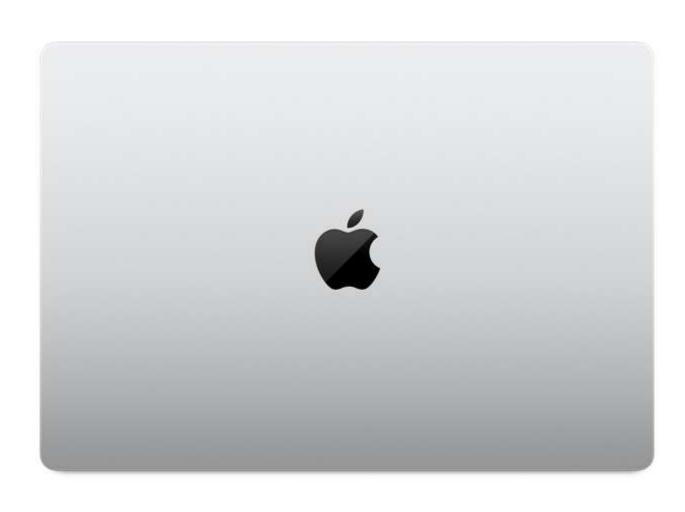
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Built-in Apps⁷



In the Box

16-inch MacBook Pro 140W USB-C Power Adapter USB-C to MagSafe 3 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 from your AppleCare+ purchase date and add unlimited repairs for accidental damage from handling, each subject to a service fee of \$99 for screen damage or external enclosure damage, or \$299 for other repairable accidental damage, plus applicable tax.

Learn more >

Configure to Order

Configure your MacBook Pro with these options at apple.com: M2 Max with 12-core CPU, 30-core GPU, and 16-core Neural Engine M2 Max with 12-core CPU, 38-core GPU, and 16-core Neural Engine 32GB unified memory (M2 Pro and M2 Max) 64GB unified memory (M2 Max) 96GB unified memory (M2 Max with 38-core GPU) 1TB, 2TB, 4TB, or 8TB SSD



MacBook Pro and the **Environment**

The 16-inch MacBook Pro is designed with the following features to reduce its environmental impact:8

See the 16-inch MacBook Pro Product Environmental Report >

Made with better materials

Over 35% recycled content in the entire product,9 including:

100% recycled aluminum in the enclosure 100% recycled rare earth elements in all magnets

100% recycled tin in the solder of multiple printed circuit boards

Green manufacturing

Apple's Zero Waste Program helps suppliers eliminate waste sent to landfill All final assembly supplier sites are transitioning to 100% renewable energy for Apple production

Responsible packaging

100% of virgin wood fiber comes from responsibly managed forests 97% fiber-based packaging and no outer plastic wrap¹²

Apple Trade In

100% recycled gold in the plating of multiple printed circuit boards

35% or more recycled plastic in multiple components

Energy efficient ENERGY STAR® certified¹o

Smarter chemistry¹¹ Arsenic-free display glass

Mercury-, BFR-, PVC-, and beryllium-free

Trade in your eligible device for credit toward your next purchase, or get an Apple Gift Card you can use anytime.13 If your device isn't eligible for credit, we'll

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See how it works >

recycle it for free.

Apple and the Environment

We're committed to making our products without taking from the earth, and to become carbon neutral across our entire business, including products, by 2030.

See Apple's commitment >

Accessories

Mac Software

Final Cut Pro Logic Pro

Pro Display XDR

Displays and Adapters Studio Display

LG UltraFine 4K Display Thunderbolt 3 (USB-C) to Thunderbolt 2 Adapter

USB-C to USB Adapter USB-C Digital AV Multiport Adapter **USB-C VGA Multiport Adapter**

Belkin USB-C to Gigabit Ethernet Adapter

Other Accessories

USB-C to Lightning Cable USB-C to MagSafe 3 Cable

USB-C Charge Cable 140W USB-C Power Adapter

Magic Keyboard with Touch ID Magic Keyboard with Touch ID and

Numeric Keypad Magic Keyboard

Magic Keyboard with Numeric Keypad

Magic Trackpad Magic Mouse **Polishing Cloth**

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Contact us >

- 1. The displays on the 14-inch and 16-inch MacBook Pro have rounded corners at the top. When measured as a standard rectangular shape, the screens are 14.2 inches and 16.2 inches diagonally (actual viewable area is less).
- 2. In temperatures less than 25° C.
- 3. Actual rating of 69.6 watt-hours (14-inch model) or 99.6 watt-hours (16-inch model). Testing conducted by Apple in November and December 2022 using preproduction 14-inch MacBook Pro systems with Apple M2 Pro, 12-core CPU, 19-core GPU, 16GB of RAM, and 1TB SSD; and preproduction 16-inch MacBook Pro systems with Apple M2 Pro, 12-core CPU, 19-core GPU, 16GB of RAM, and 1TB SSD. The wireless web test measures battery life by wirelessly browsing 25 popular websites with display brightness set to 8 clicks from bottom. The Apple TV app movie playback test measures battery life by playing back HD 1080p content with display brightness set to 8 clicks from bottom. Battery life varies by use and configuration. See apple.com/batteries for more information.
- 4. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
- 5. Wi-Fi 6E connectivity available in countries where supported.
- 6. Weight varies by configuration and manufacturing process.
- 7. 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.
- 8. Data accurate as of product launch.
- 9. Product recycled content is the mass of certified recycled material relative to the overall mass of the device, not including packaging or in-box accessories.
- 10. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.
- 11. Apple's Regulated Substances Specification describes Apple's restrictions on the use of certain chemical substances in materials in Apple products, accessories, manufacturing processes, and packaging used for shipping products to Apple's end-customers. Restrictions are derived from international laws or directives, regulatory agencies, eco-label requirements, environmental standards, and Apple policies. Every Apple product is free of PVC and phthalates except for AC power cords in India, Thailand (for two-prong AC power cords), and South Korea, where we continue to seek government approval for our PVC and phthalates replacement. Apple products comply with the European Union Directive 2011/65/EU and its amendments, including exemptions for the use of lead such as high-temperature solder. Apple is working to phase out the use of these exempted substances for new products where technically possible.
- 12. Based on retail packaging as sold by Apple. Fiber content is based on a breakdown of U.S. retail packaging by weight. Adhesives, inks and coatings are excluded from our calculations of plastic content and packaging weight.
- 13. Trade-in values will vary based on the condition, year, and configuration of your eligible trade-in device. Not all devices are eligible for credit. You must be at least 18 years old to be eligible to trade in for credit or for an Apple Gift Card. Trade-in value may be applied toward qualifying new device purchase, or added to an Apple Gift Card. Actual value awarded is based on receipt of a qualifying device matching the description provided when estimate was made. Sales tax may be assessed on full value of a new device purchase. In-store trade-in requires presentation of a valid photo ID (local law may require saving this information). Offer may not be available in all stores, and may vary between in-store and online trade-in. Some stores may have additional requirements. Apple or its trade-in partners reserve the right to refuse or limit quantity of any trade-in transaction for any reason. More details are available from Apple's trade-in partner for trade-in and recycling of eligible devices. Restrictions and limitations may apply.
- † Apple Card Monthly Installments (ACMI) is a 0% APR payment option that is only available if you select it at checkout in the U.S. for eligible Apple products purchased at Apple Store locations, apple.com, the Apple Store app, or by calling 1-800-MY-APPLE, and is subject to credit approval and credit limit. See support.apple.com/kb/HT211204 for more information about eligible products. APR ranges may vary based on when you accepted an Apple Card. Cardholders who accept an Apple Card on and/or after August 10, 2023: Variable APRs for Apple Card, other than ACMI, range from 19.24% to 29.49% based on creditworthiness. Rates as of August 10, 2023. Existing cardholders: See your Customer Agreement for applicable rates and fee. If you buy an ACMI eligible product by choosing to pay in full with Apple Card (instead of using ACMI), that purchase is subject to the Apple Card variable APR, not 0% APR. Taxes and shipping on ACMI purchases are subject to the variable APR, not 0% APR. You'll need to select AT&T, T-Mobile, or Verizon as your carrier when you check out. An iPhone purchased with ACMI is always unlocked, so you can switch carriers at any time. ACMI is not available for purchases made online at the following special stores: Apple Employee Purchase Plan; participating corporate Employee Purchase Programs; Apple at Work for small businesses; Government, and Veterans and Military Purchase Programs, or on refurbished devices. The last month's payment for each product will be the product's purchase price, less all other payments at the monthly payment amount. ACMI financing is subject to change at any time for any reason, including but not limited to, installment term lengths and eligible products. See support.apple.com/kb/HT211204 for information about upcoming changes to ACMI financing. See the Apple Card Customer Agreement for more information

To access and use all the features of Apple Card, you must add Apple Card to Wallet on an iPhone or iPad with the latest version of iOS or iPadOS. Update to the latest version by going to Settings > General > Software Update. Tap Download and Install.

Available for qualifying applicants in the United States.

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Apple Card is issued by Goldman Sachs Bank USA, Salt Lake City Branch.

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