

MacBook Pro

13-inch model



Finish



Silver

Space Gray

Display

Retina display

13.3-inch (diagonal) LED-backlit display with IPS technology; 2560-by-1600 native resolution at 227 pixels per inch with support for millions of colors

Supported scaled resolutions:

- 1680 by 1050
- 1440 by 900
- 1024 by 640

500 nits brightness

Wide color (P3)

True Tone technology

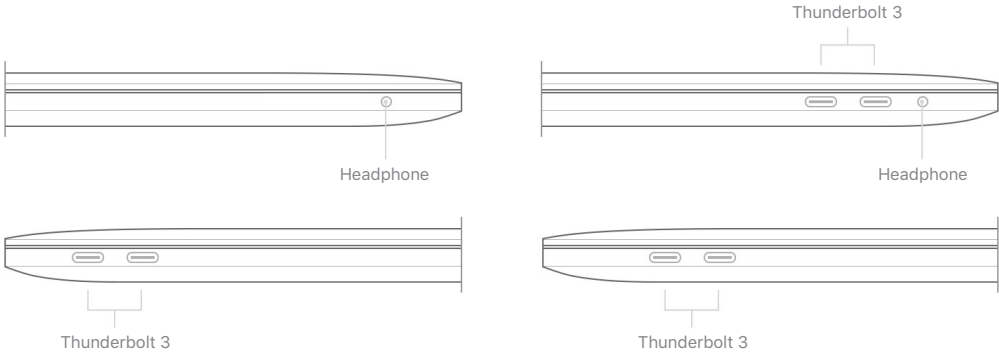
Processor	1.4GHz quad-core 8th-generation Intel Core i5, Turbo Boost up to 3.9GHz, with 128MB of eDRAM	2.0GHz quad-core 10th-generation Intel Core i5, Turbo Boost up to 3.8GHz, with 6MB shared L3 cache
	Configurable to 1.7GHz quad-core 8th-generation Intel Core i7, Turbo Boost up to 4.5GHz, with 128MB of eDRAM	Configurable to 2.3GHz quad-core 10th-generation Intel Core i7, Turbo Boost up to 4.1GHz, with 8MB shared L3 cache

Storage	256GB	512GB	512GB	1TB
	256GB SSD Configurable to 512GB, 1TB, or 2TB SSD	512GB SSD Configurable to 1TB or 2TB SSD	512GB SSD Configurable to 1TB, 2TB, or 4TB SSD	1TB SSD Configurable to 2TB or 4TB SSD

Memory	8GB	16GB
	8GB of 2133MHz LPDDR3 onboard memory Configurable to 16GB of memory	16GB of 3733MHz LPDDR4X onboard memory Configurable to 32GB of memory

Graphics	Intel Iris Plus Graphics 645	Intel Iris Plus Graphics
-----------------	------------------------------	--------------------------

Charging and Expansion	Two Thunderbolt 3 (USB-C) ports with support for: Charging DisplayPort Thunderbolt (up to 40Gb/s) USB 3.1 Gen 2 (up to 10Gb/s)	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)
-------------------------------	--	---



Keyboard and Trackpad

Backlit Magic Keyboard with:

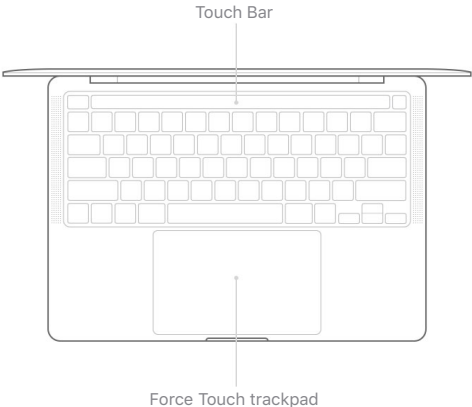
65 (U.S.) or 66 (ISO) keys including 4 arrow keys in an inverted-T arrangement

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



Wireless

Wi-Fi

802.11ac Wi-Fi wireless networking

IEEE 802.11a/b/g/n compatible

Bluetooth

Bluetooth 5.0 wireless technology

Camera

720p FaceTime HD camera

Video Support

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

One external 5K display with 5120-by-2880 resolution at 60Hz at over a billion colors, or
Up to two external 4K displays with 4096-by-2304 resolution at 60Hz at millions of colors

Thunderbolt 3 digital video output

Native DisplayPort output over USB-C

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

One external 6K display with 6016-by-3384 resolution at 60Hz at over a billion colors, or
One external 5K display with 5120-by-2880 resolution at 60Hz at over a billion colors, or
Up to two external 4K displays with 4096-by-2304 resolution at 60Hz at millions of colors

Thunderbolt 3 digital video output

VGA, HDMI, DVI, and Thunderbolt 2 output supported using adapters (sold separately)	Native DisplayPort output over USB-C
	VGA, HDMI, DVI, and Thunderbolt 2 output supported using adapters (sold separately)

Audio

- Stereo speakers with high dynamic range
- Wide stereo sound
- Support for Dolby Atmos playback
- Three-mic array with directional beamforming
- 3.5mm headphone jack

Battery and Power

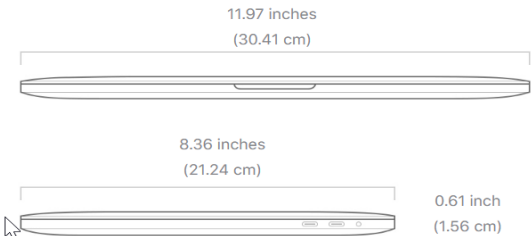
Up to 10 hours wireless web	Up to 10 hours wireless web
Up to 10 hours Apple TV app movie playback	Up to 10 hours Apple TV app movie playback
Up to 30 days of standby time	Up to 30 days of standby time
Built-in 58.2-watt-hour lithium-polymer battery	Built-in 58.0-watt-hour lithium-polymer battery
61W USB-C Power Adapter	61W USB-C Power Adapter

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: 0.61 inch (1.56 cm)
- Width: 11.97 inches (30.41 cm)
- Depth: 8.36 inches (21.24 cm)
- Weight: 3.1 pounds (1.4 kg)



Operating System

macOS

macOS is the operating system that powers everything you do on a Mac. macOS Catalina brings dedicated apps for music, TV, and podcasts. Smart updates to the apps you use most. And Sidecar, which lets you use iPad as a second display. So you can take everything you do above and beyond.

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.

Features include:

- Voice Control
- VoiceOver
- Zoom
- Increase Contrast
- Reduce Motion
- Siri and Dictation
- Switch Control
- Closed Captions
- Text to Speech

In the Box

13-inch MacBook Pro
61W 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.