

MacBook Pro (13-inch, 2019, Four Thunderbolt 3 ports) – Technical Specifications



Touch Bar

- Touch Bar with integrated Touch ID sensor

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

- 2.4GHz quad-core Intel Core i5, Turbo Boost up to 4.1GHz, with 128MB of eDRAM
Configurable to 2.8GHz quad-core Intel Core i7, Turbo Boost up to 4.7GHz, with 128MB of eDRAM

Storage

- 256GB
256GB SSD
Configurable to 512GB, 1TB, or 2TB SSD
- 512GB
512GB SSD
Configurable to 1TB or 2TB SSD

Memory

- 8GB of 2133MHz LPDDR3 onboard memory
Configurable to 16GB of memory

Graphics

- Intel Iris Plus Graphics 655

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)

Keyboard and Trackpad

- Full-size backlit keyboard with:
 - 64 (U.S.) or 65 (ISO) keys including 4 arrow keys
 - Touch Bar with integrated 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 display with 5120-by-2880 resolution at 60Hz at over a billion colors
- Up to two displays with 4096-by-2304 resolution at 60Hz at millions of colors
- Up to two displays with 3840-by-2160 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)

Audio

- Stereo speakers with high dynamic range
- Three microphones

- 3.5 mm headphone jack

Battery and Power

- Up to 10 hours wireless web
- Up to 10 hours iTunes movie playback
- Up to 30 days of standby time
- Built-in 58.0-watt-hour lithium-polymer battery
- 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: 0.59 inch (1.49 cm)
- Width: 11.97 inches (30.41 cm)
- Depth: 8.36 inches (21.24 cm)
- Weight: 3.02 pounds (1.37 kg)

Operating System

macOS

macOS is the operating system that powers everything you do on a Mac. macOS Mojave brings new features inspired by its most powerful users but designed for everyone. So you can get more out of every click.

[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, physical and motor skills, and learning and literacy, you can create and do amazing things.

[Learn more](#)

Features include:

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

Built-in Apps

- Photos
- iMovie
- GarageBand
- Pages
- Numbers
- Keynote
- Siri
- Safari
- Mail
- FaceTime
- Messages
- Maps
- News
- Stocks
- Home
- Voice Memos
- Notes
- Calendar
- Contacts
- Reminders
- Photo Booth
- Preview
- iTunes
- Books
- App Store
- Time Machine

What's in the Box

- 13-inch MacBook Pro
- 61W USB-C Power Adapter
- USB-C Charge Cable (2 m)

Configure to Order

Configure your MacBook Pro with these options:

- 2.8GHz quad-core Intel Core i7, Turbo Boost up to 4.7GHz, with 128MB of eDRAM
- 16GB of 2133MHz LPDDR3 memory
- 512GB, 1TB, or 2TB 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
- Beryllium-free
- Highly recyclable aluminum enclosure
- Meets ENERGY STAR requirements
- Rated EPEAT Gold

Apple and the Environment

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

Accessories

Mac Software

- Final Cut Pro X
- Logic Pro X

Displays and Adapters

- 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
- 61W USB-C Power Adapter
- 13-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