# MacBook Pro (13-inch, 2017, Two Thunderbolt 3 ports) – Technical Specifications

Languages  English

**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)

**Processor**

- 2.3GHz dual-core Intel Core i5, Turbo Boost up to 3.6GHz, with 64MB of eDRAM
  Configurable to 2.5GHz dual-core Intel Core i7, Turbo Boost up to 4.0GHz, with 64MB of eDRAM

**Storage**[1]

- 128GB
  128GB SSD
  Configurable to 256GB, 512GB, or 1TB SSD
- 256GB
  256GB SSD
  Configurable to 512GB or 1TB SSD

**Memory**

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

**Graphics**

- Intel Iris Plus Graphics 640

**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)

**Keyboard and Trackpad**

- Full-size backlit keyboard with:
  - 78 (U.S.) or 79 (ISO) keys including 12 function keys and 4 arrow keys
  - 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 4.2 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
- Two microphones
- 3.5 mm headphone jack

Battery and Power[2]

- Up to 10 hours wireless web
- Up to 10 hours iTunes movie playback
- Up to 30 days of standby time
- Built-in 54.5-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)[3]

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 about latest operating system

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 about Accessibility

Features include:

- 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
- 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, only at apple.com:

- 2.5GHz dual-core Intel Core i7, Turbo Boost up to 4.0GHz, with 64MB of eDRAM
- 16GB of 2133MHz LPDDR3 memory
- 256GB, 512GB, or 1TB SSD

MacBook Pro and the Environment
Apple takes a complete product life cycle approach to determining our environmental impact. Learn more about MacBook Pro and the Environment

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.

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

Acoustic Performance

Declared noise emission values in accordance with ECMA-109

| | Sound Power Level $L_{W\,A,m}$ (B) | Sound Pressure Level Operator Position $L_{p\,A,m}$ (dB) |
|---|---|---|
| Idle | 1.2 ($K_V$ = 0.3) | 3 |
| Wireless web | 1.3 ($K_V$ = 0.3) | 3 |

1. $L_{W\,A,m}$ is the mean A-weighted sound power level, rounded to the nearest 0.1 B.
2. $L_{p\,A,m}$ is the mean A-weighted sound pressure level measured at operator position (rounded to the nearest 1 dB).
3. 1 B (bel) = 10 dB (decibel)
4. $K_V$ is the statistical adder for computing upper-limit of A-weighted sound power level.
5. The quantity, $L_{W\,A,c}$ (formerly called $L_{W\,Ad}$) may be computed from the sum of $L_{W\,A,m}$ and $K_V$.
6. The Wireless web test browses 25 popular websites.
7. Configuration tested: 2.3GHz dual-core Intel Core i5 processor, 8GB memory, 256GB storage, Intel Iris Plus Graphics 640.


1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
2. Testing conducted by Apple in April 2019 using preproduction 2.4GHz quad-core Intel Core i5-based 13-inch MacBook Pro systems with 8GB of RAM and 512GB SSD; and preproduction 2.3GHz 8-core Intel Core i9-based 15-inch MacBook Pro systems with 16GB of RAM and 512GB SSD. Testing conducted by Apple in May 2017 using preproduction 2.3GHz dual-core Intel Core i5-based 13-inch MacBook Pro systems with 8GB 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 iTunes 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 www.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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Support