MacBook Air (Retina, 13-inch, 2019) – Technical Specifications

Finish

- Gold
- Space Gray
- Silver

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

- 16:10 aspect ratio
- True Tone technology

Touch ID

- Integrated Touch ID sensor

Processor

- 1.6GHz dual-core Intel Core i5, Turbo Boost up to 3.6GHz, with 4MB L3 cache

Storage[1]

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

Memory

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

Battery and Power[2]

- Up to 12 hours wireless web
- Up to 13 hours iTunes movie playback
- Up to 30 days of standby time
- Built-in 49.9-watt-hour lithium-polymer battery
- 30W USB-C Power Adapter; USB-C power port

Size and Weight

- Height: 0.16-0.61 inch (0.41-1.56 cm)
- Width: 11.97 inches (30.41 cm)
- Depth: 8.36 inches (21.24 cm)
- Weight: 2.75 pounds (1.25 kg)[3]

Graphics

- Intel UHD Graphics 617
- Support for Thunderbolt 3-enabled external graphics processors (eGPUs)

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

- One external display with 5120-by-2880 resolution at up to 60Hz
- Up to two external displays with 4096-by-2304 resolution at up to 60Hz

Thunderbolt 3 digital video output

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

Camera

- 720p FaceTime HD camera

Charging and Expansion
Two Thunderbolt 3 (USB‑C) ports with support for:

- Charging
- DisplayPort
- Thunderbolt (up to 40 Gb/s)
- USB‑C 3.1 Gen 2 (up to 10 Gb/s)

Wireless

- 802.11ac Wi‑Fi wireless networking; IEEE 802.11a/b/g/n compatible
- Bluetooth 4.2 wireless technology

Audio

- Stereo speakers
- Three microphones
- 3.5 mm headphone jack

Keyboard and Trackpad

- **Full‑size keyboard with:**

  - 78 (U.S.) or 79 (ISO) individual LED‑backlit 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

Electrical and Operating Requirements

- Line voltage: 100 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

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 Air. 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[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

In the Box

- MacBook Air
- 30W USB-C Power Adapter
- USB-C Charge Cable (2 m)

Configure to Order

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

- 16GB of 2133MHz LPDDR3 memory
- 256GB, 512GB, or 1TB SSD

MacBook Air and the Environment

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

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

- Mercury-free display
- Arsenic-free display glass
- BFR-free
- PVC-free[5]
- Beryllium-free
- 100% recycled aluminum enclosure[6]
- Meets ENERGY STAR requirements
- Rated EPEAT Gold[7]

Apple and the Environment

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

Acoustic Performance

Declared noise emission values in accordance with ECMA-109

	Sound Power Level $L_{WA,m}$ **(B)**	Sound Pressure Level Operator Position $L_{pA,m}$ **(dB)**
Idle	1.3 (K_v = 0.3)	4
Wireless web	1.3 (K_v = 0.3)	4

1. $L_{WA,m}$ is the mean A-weighted sound power level, rounded to the nearest 0.1 B.
2. $L_{pA,m}$ is the mean A-weighted sound pressure level measured at the 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, $L_{WA,c}$ (formerly called L_{WAd}) may be computed from the sum of $L_{WA,m}$ and K_v.
6. The Wireless web test browses 25 popular websites.
7. Configuration tested: 1.6GHz dual-core Intel Core i5 processor, 8GB memory, 256GB storage, Intel UHD Graphics 617.

1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
2. Testing conducted by Apple in October 2018 using preproduction 1.6GHz dual-core Intel Core i5-based MacBook Air systems with 8GB of RAM and 256GB SSD. Testing conducted by Apple in May 2017 using preproduction 1.8GHz dual-core Intel Core i5-based 13-inch MacBook Air systems with 8GB of RAM and 256GB 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. Recycled material claim applies to the enclosure and is based on auditing done by UL LLC.
7. MacBook Air achieved a Gold rating from EPEAT in the U.S. and Canada.

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