

# MacBook Air (Retina, 13-inch, 2020) - Technical Specifications

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 [support.apple.com/kb/SP813](https://support.apple.com/kb/SP813)

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## Finish

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- Gold
- Space Gray
- Silver

## Display

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- 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

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Touch ID sensor

## Processor

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1.1GHz dual-core Intel Core i3, Turbo Boost up to 3.2GHz, with 4MB L3 cache  
*Configurable to 1.1GHz quad-core Intel Core i5, Turbo Boost up to 3.5GHz, with 6MB L3 cache; or 1.2GHz quad-core Intel Core i7, Turbo Boost up to 3.8GHz, with 8MB L3 cache*

## Storage<sup>1</sup>

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

## Memory

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8GB of 3733MHz LPDDR4X onboard memory  
*Configurable to 16GB of memory*

## Battery and Power<sup>2</sup>

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- Up to 11 hours wireless web
- Up to 12 hours Apple TV app 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

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- Height: 0.16–0.63 inch (0.41–1.61 cm)
- Width: 11.97 inches (30.41 cm)
- Depth: 8.36 inches (21.24 cm)
- Weight: 2.8 pounds (1.29 kg)<sup>3</sup>

## Graphics

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- Intel Iris Plus Graphics
- Support for Thunderbolt 3–enabled external graphics processors (eGPUs)

## Video Support

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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 millions of colors, or
- One external 5K display with 5120-by-2880 resolution at 60Hz at millions of 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
- VGA, HDMI, and Thunderbolt 2 output using adapters (sold separately)

## Camera

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720p FaceTime HD camera

## Charging and Expansion

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Two Thunderbolt 3 (USB-C) ports with support for:

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

## Wireless

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- 802.11ac Wi-Fi wireless networking; IEEE 802.11a/b/g/n compatible
- Bluetooth 5.0 wireless technology

## Audio

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

## Keyboard and Trackpad

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### **Backlit Magic Keyboard with:**

- 78 (U.S.) or 79 (ISO) keys including 12 function keys and 4 arrow keys in an inverted-T arrangement
- 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

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- 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

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### **macOS**

macOS is the operating system that powers everything you do on a Mac. macOS Catalina brings new, 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.

[Learn more about latest operating system](#)

## Accessibility

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Accessibility features help people with disabilities get the most out of their new MacBook Air. With built-in support for vision, hearing, mobility, and learning, you can create and do amazing things. [Learn more about Accessibility](#).

Features include:

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

## Built-in Apps<sup>4</sup>

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

- Podcasts
- Find My
- QuickTime Player

## In the Box

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

## Configure to Order

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Configure your MacBook Air with these options, only at [apple.com](https://apple.com):

- 1.1GHz quad-core Intel Core i5, Turbo Boost up to 3.5GHz, with 6MB L3 cache
- 1.2GHz quad-core Intel Core i7, Turbo Boost up to 3.8GHz, with 8MB L3 cache
- 16GB of 3733MHz LPDDR4X memory
- 512GB, 1TB, or 2TB SSD

## MacBook Air and the Environment

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We take responsibility for the environmental footprint of our products throughout their life cycle. [Learn more about MacBook Air and the Environment](#)

MacBook Air is designed with the following features to reduce its environmental impact<sup>5</sup>:

### Made with better materials

- 100% recycled aluminum in the enclosure
- 100% recycled tin in the solder of the main logic board
- 35% or more recycled plastic in multiple components

### Energy efficient

Meets ENERGY STAR requirements

### Smarter chemistry

- Arsenic-free display glass
- Mercury-free LED-backlit display
- BFR-, PVC-, and beryllium-free

### Green manufacturing

- Final assembly supplier sites do not generate any waste sent to landfill<sup>6</sup>
- All final assembly suppliers are transitioning to 100% renewable energy for Apple production

### Responsible packaging

- 100% of virgin wood fiber comes from responsibly managed forests
- Recyclable, majority-fiber packaging

## Acoustic Performance

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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 ( $K_v = 0.3$ )	3

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  $L_{WA,d}$ ) 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: 1.1GHz quad-core Intel Core i5 processor, 8GB memory, 500GB storage, Intel Iris Plus Graphics.
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1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
2. Testing conducted by Apple in February 2020 using preproduction 1.1GHz dual-core Intel Core i3-based 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 Apple TV app 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 [apple.com/batteries](https://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. Data accurate as of product launch.
6. Final assembly supplier sites for the MacBook Air are third-party certified as Zero Waste by UL LLC (UL 2799 Standard).

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