

# MacBook Air (13-inch, M3, 2024) - Tech Specs

Year introduced: 2024

|                |   |
|----------------|---|
| <b>Finish</b>  | Silver<br>Starlight<br>Space Grey<br>Midnight   |
| <b>Chip</b>    | <b>Apple M3 chip</b><br>8-core CPU with 4 performance cores and 4 efficiency cores<br>8-core GPU, 10-core GPU<br>Hardware-accelerated ray tracing<br>16-core Neural Engine<br>100GB/s memory bandwidth<br><b>Media Engine</b> <ul style="list-style-type: none"><li>◦ Hardware-accelerated H.264, HEVC, ProRes and ProRes RAW</li><li>◦ Video decode engine</li><li>◦ Video encode engine</li><li>◦ ProRes encode and decode engine</li><li>◦ AV1 decode engine</li></ul> Configurable to: <ul style="list-style-type: none"><li>◦ M3 with 8-core CPU and 10-core GPU</li></ul> |
| <b>Display</b> | <b>Liquid Retina display</b><br>13.6-inch (diagonal) LED-backlit display with IPS technology; 2560x1664 native resolution at 224 pixels per inch<br>500 nits brightness<br><b>Colour</b><br>Support for 1 billion colours<br>Wide colour (P3)<br>True Tone technology   |
| <b>Memory</b>  | 16GB unified memory<br>Configurable to 24GB<br><br>8GB unified memory<br>Configurable to 16GB or 24GB   |

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

Up to 18 hours Apple TV app movie playback

Up to 15 hours wireless web

52.6-watt-hour lithium-polymer battery

30W USB-C Power Adapter (included with M2 and M3 with 8-core GPU)

35W Dual USB-C Port Power Adapter (included with M2 and M3 with 10-core GPU and 512GB storage, configurable with M2 and M3 with 8-core GPU)

USB-C to MagSafe 3 Cable

Fast-charge capable with 70W USB-C Power Adapter

## Storage<sup>3</sup>

256GB SSD

Configurable to 512GB, 1TB or 2TB

## Charging and Expansion

MagSafe 3 charging port

3.5mm headphone jack

Two Thunderbolt / USB 4 ports with support for:

- Charging
- DisplayPort
- Thunderbolt 3 (up to 40Gb/s)
- USB 4 (up to 40Gb/s)

## Display Support

### M3

Simultaneously supports full native resolution on the built-in display at 1 billion colours and:

One external display with up to 6K resolution at 60Hz

Close the MacBook Air lid to use a second external display with up to 5K resolution at 60Hz

## Video Playback

Supported formats include HEVC, H.264, AV1 and ProRes

HDR with Dolby Vision, HDR10 and HLG

## Audio Playback

Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus and Dolby Atmos

## Keyboard and Trackpad

Backlit Magic Keyboard with:

78 (US) or 79 (ISO) keys including 12 full-height function keys and 4 arrow keys in an inverted “T” arrangement

Touch ID

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

|                               |  |
|-------------------------------|--|
| <b>Wireless</b>               | <b>M3</b><br>Wi-Fi 6E (802.11ax) <sup>4</sup><br>Bluetooth 5.3   |
| <b>Camera</b>                 | 1080p FaceTime HD camera<br>Advanced image signal processor with computational video   |
| <b>Audio</b>                  | Four-speaker sound system<br>Support for Spatial Audio when playing music or video with Dolby Atmos on built-in speakers<br>Spatial Audio with dynamic head tracking when using AirPods (3rd generation), AirPods Pro and AirPods Max<br>Three-mic array with directional beamforming<br>Voice Isolation and Wide Spectrum microphone modes (M3)<br>Enhanced voice clarity in audio and video calls (M3)<br>3.5mm headphone jack with advanced support for high-impedance headphones |
| <b>Operating Requirements</b> | Line voltage: 100V to 240V AC<br>Frequency: 50Hz to 60Hz<br>Operating temperature: 10° to 35° C (50° to 95° F)<br>Storage temperature: -25° to 45° C (-13° to 113° F)<br>Relative humidity: 0% to 90% non-condensing<br>Operating altitude: tested up to 3,000 metres (10,000 feet)<br>Maximum storage altitude: 4,500 metres (15,000 feet)<br>Maximum shipping altitude: 10,500 metres (35,000 feet)  |
| <b>Size and Weight</b>        | Height: 1.13 cm (0.44 inches)<br>Width: 30.41 cm (11.97 inches)<br>Depth: 21.5 cm (8.46 inches)<br>Weight: 1.24 kg (2.7 pounds) <sup>5</sup>   |
| <b>Operating System</b>       | <b>macOS</b><br>macOS is the most advanced desktop operating system in the world. And with macOS Sonoma, work and play on your Mac are even more powerful — with new ways to elevate your video presentations, boost your gaming performance and personalise your device.<br><a href="#">Learn more about latest operating system</a>  |
| <b>Accessibility</b>          | 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.<br><a href="#">Learn more about Accessibility</a><br>Features include:   |

|                    |                   |      |
|--------------------|-------------------|------|
| Voice Control      | Increase Contrast | Zoom |
| VoiceOver          | Reduce Motion     |      |
| Siri and Dictation | Switch Control    |      |

## Built-in Apps<sup>6</sup>

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

## In the Box

### 13-inch MacBook Air

**30W USB-C Power Adapter (M2 and M3 with 8-core GPU) or 35W Dual USB-C Port Power Adapter (M2 and M3 with 10-core GPU and 512GB storage)**

**USB-C to MagSafe 3 Cable (2m)**

## Configure to Order

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

- M2 with 10-core GPU (M2 model)
- M3 with 10-core GPU (M3 model)
- 16GB or 24GB unified memory
- 512GB, 1TB or 2TB SSD
- 35W Dual USB-C Port Power Adapter
- 70W USB-C Power Adapter

## MacBook Air and the Environment

MacBook Air is designed with the following features to reduce its environmental impact:<sup>7</sup>

[See the 13-inch MacBook Air with M3 chip Product Environmental Report \(PDF\).](#)

### Made with better materials

#### 13-inch MacBook Air with M3 chip

- Made with 50% recycled content, including:
  - 100% recycled aluminium in the enclosure
  - 100% recycled tin in the solder and gold in the plating of multiple printed circuit boards
  - 100% recycled rare earth elements in all magnets, representing 99% of the rare earth elements in the device
  - 100% recycled cobalt in the battery<sup>8</sup> and magnets of the MagSafe connector
  - 100% recycled copper in the main logic board — an Apple first
  - 90% recycled steel in the battery tray, keyboard feature plate and trackpad beam plate

- 35% or more recycled plastic in multiple components

### Energy efficient

ENERGY STAR® certified<sup>9</sup>

### Smarter chemistry<sup>10</sup>

Arsenic-free display glass

Mercury-, BFR- and PVC-free

### Green manufacturing

No established final assembly supplier sites generate any waste sent to landfill<sup>11</sup>

Over 20% of manufacturing electricity sourced from supplier clean energy projects<sup>12</sup>

### Responsible packaging

100% of virgin wood fibre comes from responsibly managed forests

The 13-inch MacBook Air with M3 chip uses 99% fibre-based packaging, and the 13-inch MacBook Air with M2 chip uses 96% fibre-based packaging, due to our work to remove plastic from packaging<sup>13</sup>

### Progress towards our 2030 goal

Reduced emissions for MacBook Air with M3 chip by over 40% against our baseline<sup>14</sup>

### Apple and the Environment

Today, Apple is carbon neutral for global corporate operations, and we are focused on our Apple 2030 goal to make every product carbon neutral.

[See Apple's commitment](#)

Declared noise emission values in accordance with ECMA-109

## Acoustic Performance

|              | Sound Power Level<br>$L_{WA,m}$ (B) | Sound Pressure Level<br>Operator Position<br>$L_{pA,m}$ (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 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 6 tabs with a mix of content including media.
7. Configuration tested: M3, 8-core CPU / 10-core GPU, 8GB unified memory, 512GB storage.

1. Screen size is measured diagonally. The displays on the 13-inch and 15-inch MacBook Air have rounded corners at the top. When measured as a standard rectangular shape, the screens are 13.6 inches and 15.3 inches diagonally (actual viewable area is less).
2. Testing conducted by Apple in January 2024 using pre-production 15-inch MacBook Air systems with Apple M3, 8-core CPU and 10-core GPU, and pre-production 13-inch MacBook Air systems with Apple M3, 8-core CPU and 8-core GPU, all configured with 8GB of RAM and 256GB SSD. Testing conducted by Apple in May 2022 using pre-production 13-inch MacBook Air systems with Apple M2, 8-core CPU, 8-core GPU, 8GB of RAM and 256GB SSD. The wireless web test measures battery life by wirelessly browsing 25 popular websites with display brightness set to 8 clicks from bottom. The Apple TV app movie playback test measures battery life by playing back HD 1080p content with display brightness set to 8 clicks from bottom. Battery life varies by use and configuration. See [apple.com/uk/batteries](https://apple.com/uk/batteries) for more information.
3. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
4. Wi-Fi 6E available in countries and regions where supported.
5. Weight varies by configuration and manufacturing process.
6. 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.
7. Data accurate as of product launch.
8. Recycled cobalt in the battery uses mass balance allocation.
9. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the US Environmental Protection Agency.
10. Apple's Regulated Substances Specification describes Apple's restrictions on the use of certain chemical substances in materials in Apple products, accessories, manufacturing processes, and packaging used for shipping products to Apple's end customers. Restrictions are derived from international laws or directives, regulatory agencies, eco-label requirements, environmental standards and Apple policies. Every Apple product is free of PVC and phthalates except for AC power leads in India, Thailand (for two-pin AC power leads) and the Republic of Korea, where we continue to seek government approval for our PVC and phthalates replacement. Apple products comply with the European Union Directive 2011/65/EU and its amendments, including exemptions for the use of lead such as high-temperature solder. Apple is working to phase out the use of these exempted substances for new products where technically possible.
11. All established final assembly supplier sites — those that have been Apple suppliers for more than one year — for MacBook Air with M3 chip are third-party verified as Zero Waste by UL LLC (UL 2799 Standard). UL requires at least 90 per cent diversion through methods other than waste to energy to achieve Zero Waste to Landfill (Silver 90–94 per cent, Gold 95–99 per cent and Platinum 100 per cent) designations.
12. We estimate the percentage of electricity-related emissions in our manufacturing that is sourced from clean electricity by attributing to our carbon model clean energy procured by our suppliers in the prior fiscal year, based on the supplier manufacturing allocations at time of product launch. Included in this number is only clean electricity that Apple or its suppliers have procured as part of Apple's Supplier Clean Energy Programme.
13. Breakdown of US retail packaging by weight. Adhesives, inks and coatings are excluded from our calculations of plastic content and packaging weight.
14. Carbon reductions are calculated against a baseline scenario: 1) No use of clean electricity for manufacturing or product use, beyond what is already available on the latest modelled grid (based on regional emissions factors). 2) Apple's carbon intensity of key materials as of 2015 (our baseline year for our 2030 product carbon-neutrality goal). Carbon intensity of materials reflects use of recycled content and production technology. 3) Apple's average mix of transport modes (air, rail, sea, land) by product line across three years (fiscal years 2017 to 2019) to best capture the baseline transport emissions of our products.

Features are subject to change. Some features, applications and services may not be available in all regions or all languages.

Helpful?  Yes  No

Support MacBook Air (13-inch, M3, 2024) - Tech Specs