# Mac laptops
## Lineup and customer scenarios

Powered by Apple M-series chips, the Mac laptop lineup is the most powerful ever. Every model offers incredible compute power, high-performance graphics, turbocharged machine learning, and all-day battery life, so customers can work, play, or create, wherever they are. The entire lineup features brilliant Retina displays, industry-leading Force Touch trackpads, and backlit Magic Keyboards with Touch ID. And every model comes with powerful Apple apps for browsing the web, creating documents and presentations, editing photos and videos, and making music. Customers can even seamlessly integrate iOS devices into their Mac experience, so they can make calls, send texts, and hand off files. And they get great performance from Mac apps—and with Apple silicon, Mac laptops can run iPhone and iPad apps as well.

| MacBook Air (M1) | MacBook Air (M2) | MacBook Pro (13-inch) | MacBook Pro (14-inch) | MacBook Pro (16-inch) |
|---|---|---|---|---|
| Ready to take on everyday tasks and more, with great portability at an affordable price. | The best combination of performance and portability, in a silent, fanless design. | Advanced performance and capability in a compact design. | Powerful performance and great battery life in a portable design. | The most powerful pro laptop with the longest battery life ever in a Mac laptop. |
| Apple M1 chip | Apple M2 chip | Apple M2 chip | Apple M2 Pro or M2 Max chip | Apple M2 Pro or M2 Max chip |
| 13.3-inch Retina display with 400 nits of brightness, True Tone technology, and wide color (P3) | 13.6-inch Liquid Retina display with 500 nits of brightness, True Tone technology, wide color (P3), and 1 billion colors | 13.3-inch Retina display with 500 nits of brightness, True Tone technology, and wide color (P3) | 14.2-inch Liquid Retina XDR display with up to 1000 nits sustained brightness, up to 1600 nits peak brightness, True Tone technology, wide color (P3), 1 billion colors, and ProMotion | 16.2-inch Liquid Retina XDR display with up to 1000 nits sustained brightness, up to 1600 nits peak brightness, True Tone technology, wide color (P3), 1 billion colors, and ProMotion |
| 8-core CPU with 4 performance cores and 4 efficiency cores, 7-core GPU, and 16-core Neural Engine | 8-core CPU with 4 performance cores and 4 efficiency cores, up to 10-core GPU, and 16-core Neural Engine | 8-core CPU with 4 performance cores and 4 efficiency cores, 10-core GPU, and 16-core Neural Engine | M2 Pro: Up to 12-core CPU with up to 8 performance cores and 4 efficiency cores, up to 19-core GPU, and 16-core Neural Engine<br>M2 Max: 12-core CPU with 8 performance cores and 4 efficiency cores, up to 38-core GPU, and 16-core Neural Engine | M2 Pro: 12-core CPU with 8 performance cores and 4 efficiency cores, 19-core GPU, and 16-core Neural Engine<br>M2 Max: 12-core CPU with 8 performance cores and 4 efficiency cores, up to 38-core GPU, and 16-core Neural Engine |
| Up to 16GB unified memory | Up to 24GB unified memory | Up to 24GB unified memory | M2 Pro: Up to 32GB unified memory<br>M2 Max: Up to 96GB unified memory | M2 Pro: Up to 32GB unified memory<br>M2 Max: Up to 96GB unified memory |
| Backlit Magic Keyboard with Touch ID | Backlit Magic Keyboard with full-height function row and Touch ID | Backlit Magic Keyboard with Touch Bar and Touch ID | Backlit Magic Keyboard with full-height function row and Touch ID | Backlit Magic Keyboard with full-height function row and Touch ID |
| Two Thunderbolt / USB 4 ports, 3.5 mm headphone jack | Two Thunderbolt / USB 4 ports, MagSafe 3, 3.5 mm headphone jack | Two Thunderbolt / USB 4 ports, 3.5 mm headphone jack | Three Thunderbolt 4 ports, HDMI port, SDXC card slot, MagSafe 3, 3.5 mm headphone jack | Three Thunderbolt 4 ports, HDMI port, SDXC card slot, MagSafe 3, 3.5 mm headphone jack |
| Stereo speakers with wide stereo sound<br>Support for Spatial Audio when playing music or video with Dolby Atmos<br>Three-mic array with beamforming | Four-speaker sound system with wide stereo sound<br>Support for Spatial Audio when playing music or video with Dolby Atmos<br>Three-mic array with beamforming | Stereo speakers with wide stereo sound<br>Support for Spatial Audio when playing music or video with Dolby Atmos<br>Studio-quality three-mic array with high signal-to-noise ratio | High-fidelity six-speaker system with force-cancelling woofers and wide stereo sound<br>Support for Spatial Audio when playing music or video with Dolby Atmos<br>Studio-quality three-mic array with high signal-to-noise ratio | High-fidelity six-speaker system with force-cancelling woofers with increased bass output and range, and wide stereo sound<br>Support for Spatial Audio when playing music or video with Dolby Atmos<br>Studio-quality three-mic array with high signal-to-noise ratio |
| Up to 18 hours of Apple TV app video playback; up to 15 hours of wireless web[1] | Up to 18 hours of Apple TV app video playback; up to 15 hours of wireless web[1]<br>Fast-charge with 67W USB-C Power Adapter, sold separately | Up to 20 hours of Apple TV app video playback; up to 17 hours of wireless web[1] | Up to 18 hours of Apple TV app video playback; up to 12 hours of wireless web[1]<br>Fast-charge with 96W USB-C Power Adapter, included with models with 12-core CPU | Up to 22 hours of Apple TV app video playback; up to 15 hours of wireless web[1]<br>Fast-charge with included 140W USB-C Power Adapter |
| 2.8 pounds (1.29 kg) | 2.7 pounds (1.24 kg) | 3.0 pounds (1.4 kg) | M2 Pro: 3.5 pounds (1.6 kg)<br>M2 Max: 3.6 pounds (1.63 kg) | M2 Pro: 4.7 pounds (2.15 kg)<br>M2 Max: 4.8 pounds (2.16 kg) |

Dots indicate available product image finishes:   ● Silver   ● Space Grey   ● Gold   ● Starlight   ● Midnight