

iPhone 17 Pro Max—Full Official Specifications 2025: What You Need to Know

The iPhone 17 Pro Max is the latest flagship smartphone from Apple, released in 2025. This model brings significant upgrades over past generations — from display and camera to performance, battery life and overall design. In this article, we'll cover all the official specifications and highlight what makes this device stand out.

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Design, Build and Versions

The iPhone 17 Pro Max uses an aluminum unibody design with a "Ceramic Shield 2" covering not only the front but also the back of the device — a first for iPhone. That makes the phone more resistant to scratches and cracks. It comes in three finishes: Silver, Cosmic Orange, and Deep Blue.

As for storage, users can choose from 256 GB, 512 GB, 1 TB, and for the first time in an iPhone — 2 TB.

The weight of the Pro Max model is listed at 233 grams, reflecting its larger screen and battery compared to smaller Pro versions.

Display and Visual Features

The iPhone 17 Pro Max features a 6.9-inch Super Retina XDR OLED all-screen display. Resolution is 2868 × 1320 pixels, and pixel density is 460 ppi.

Display capabilities include:

- Dynamic Island for interactive notifications and controls.
- Always-On display option.
- ProMotion — adaptive refresh rate up to 120 Hz for smooth scrolling and animation.
- HDR, True Tone, Wide Color (P3), Haptic Touch.
- High contrast ratio (2,000,000:1 typical), and brightness up to 3000 nits in outdoor peak mode (1600 nits for HDR; 1000 nits typical). This ensures visibility even in bright sunlight.

Additionally, the display has fingerprint-resistant oleophobic coating and anti-reflective coating to improve usability in various lighting conditions.

Performance: Chip, AI and Thermal Architecture

Under the hood, iPhone 17 Pro Max is powered by the new A19 Pro chip. The chip architecture includes a 6-core CPU (2 performance + 4 efficiency cores), a 6-core GPU with Neural Accelerators, and a 16-core Neural Engine. It supports hardware-accelerated ray tracing — a first for iPhone.

Thanks to this hardware + efficient internal design, the device delivers significantly improved performance for

demanding tasks — whether heavy multitasking, gaming, editing video, or AI-powered features.

Thermal management is enhanced with an internal vapor-chamber cooling system, helping to keep performance stable even under load.

Apple also integrates its “Apple Intelligence” tools across iOS 26, enabling faster, smarter features with enhanced privacy and data protection.

Camera System — Photography and Video Upgrades

The rear camera system is now a 48 MP “Fusion” setup, including Main, Ultra Wide, and Telephoto lenses. The Pro Max model offers a telescopic system that reaches optical-quality 8× Telephoto — 200 mm equivalent — plus a 4× (100 mm) telephoto, 2×, 1×, and 0.5× options. This yields a 16× optical-quality zoom range and up to 40× digital zoom.

Here are key details of rear cameras:

- 48 MP Fusion Main: 24 mm, f/1.78, second-generation sensor-shift optical image stabilization (OIS), 100% Focus Pixels — supports both 24 MP and full 48 MP photos.
- 48 MP Fusion Ultra Wide: 13 mm, f/2.2, 120° field of view, Hybrid Focus Pixels, high-resolution 48 MP photos.
- 48 MP Fusion Telephoto (4×): 100 mm, f/2.8, hybrid focus, 3D sensor-shift OIS, tetraprism design.
- 48 MP Fusion Telephoto (8× optical-quality): 200 mm, f/2.8, hybrid focus, 3D sensor-shift OIS, tetraprism design.

Additional camera features:

- Super-high-resolution photos (48 MP), macro photography, panorama up to 63 MP.
- Photonic Engine, Deep Fusion, Smart HDR 5 — improved dynamic range and low-light performance.
- ProRAW support, wide-color capture, Live Photos, lens correction, red-eye correction, burst mode, automatic stabilization, geotagging.

Front camera has also been upgraded: 18 MP “Center Stage” camera with autofocus, f/1.9 aperture, Focus Pixels, Retina Flash, tap-to-zoom and rotate. Among new features: Center Stage for photos (smart group selfies), video and video calls; ultra-stabilized video; dual-capture video (front + rear). Portrait mode, Photographic Styles, Night mode, next-gen portraits with focus/depth control, Portrait Lighting (six effects), Smart HDR, Deep Fusion, lens correction.

Video capabilities are also impressive: 4K Dolby Vision video at up to 60 fps, 1080p Dolby Vision video, Cinematic mode (4K), ProRes and ProRes RAW (assuming external recording), time-lapse with stabilization (incl. night-mode time-lapse), slow-motion (1080p, 120 fps), spatial photos, stereo audio recording, wind-noise reduction and audio mix.

Battery, Charging and Battery Life

The iPhone 17 Pro Max offers the longest battery life ever in an iPhone. Thanks to internal redesign and efficient hardware/software, Apple promises up to 39 hours of video playback and up to 35 hours of streamed video playback.

Fast charging is supported: 50 % charge in about 20 minutes when using a 40 W (or higher) USB-C adapter; or 50 % in 30 minutes with a 30 W (or higher) MagSafe charger. Both accessories sold separately.

Connectivity, Networking and Other Features

The iPhone 17 Pro Max supports a full range of modern connectivity and wireless standards:

- 5G NR (sub-6 GHz and mmWave) with 4×4 MIMO, multiple LTE bands, plus older cellular standards (UMTS/HSPA+, GSM) for backward compatibility.
- Wi-Fi 7 (802.11be) with 2×2 MIMO — future-proof fast wireless.
- Bluetooth 6, Thread networking, Apple second-generation Ultra Wideband chip, NFC with reader mode, Express Cards with power reserve.
- Precision dual-frequency GPS (supporting GPS, GLONASS, Galileo, QZSS, BeiDou, NavIC), digital compass, Wi-Fi and cellular location, iBeacon micro-location — useful for navigation and location-aware apps.

External connectivity includes a USB-C port that supports charging, DisplayPort video output, and USB 3 data transfer up to 10 Gb/s — a shift from the older Lightning connector.

MagSafe and Qi2 wireless charging up to 25 W are also supported, with magnet alignment and accessory identification (NFC).

The device also includes a LiDAR scanner, high-dynamic-range gyroscope, accelerometer, barometer, proximity sensor, dual ambient-light sensors — enabling advanced AR, motion detection, spatial awareness, and more.

One major change: iPhone 17 Pro Max relies solely on eSIM technology; there is no physical SIM card slot. It supports dual active eSIMs and can store multiple eSIM profiles for future flexibility.

Software and Safety / Convenience Features

iPhone 17 Pro Max ships with iOS 26, offering all the latest privacy, performance, accessibility and AI-driven features.

Face ID is implemented via the TrueDepth camera system in the front (Center Stage) camera, enabling secure facial authentication for unlocking, payments, and privacy.

For emergencies and safety needs, the device supports Emergency SOS via satellite, Crash Detection, and other satellite-based services (where available) — useful when there is no cellular coverage.

MagSafe accessories, Apple Pay, NFC payments, Express Transit and more are all supported giving full integration with Apple's ecosystem and convenience in daily use.

Summary—Who Should Get iPhone 17 Pro Max

The iPhone 17 Pro Max is clearly targeted toward power users, professionals, content-creators, and those who want the best possible performance, camera system and battery life in an iPhone. The combination of a giant, bright, smooth 6.9" OLED display, top-tier A19 Pro chip, versatile 48 MP triple-lens camera system with up to 8× optical-quality zoom, pro-level video capabilities, large storage (up to 2 TB), and extended battery life makes it especially attractive for:

- Photographers and videographers — thanks to high-resolution cameras, long optical zoom range, ProRAW, ProRes, 4K Dolby Vision video.
- Power users and multitaskers — the A19 Pro chip, Neural Engine, ample storage, USB-C, Wi-Fi 7, eSIM flexibility make this device future-proof.
- Users who rely on their phone all day — the improved battery life and fast charging support make it ideal for heavy daily use, travel, media consumption or work on the go.
- Anyone deeply invested in the Apple ecosystem — thanks to Apple Intelligence, MagSafe accessories, Apple Pay, privacy features, satellite SOS and more.

At the same time, given its size and weight (233 grams, large 6.9" display), it might be less convenient for users who prefer compact phones or want a lighter daily driver. In that case, a smaller Pro or standard model might suit them better.

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Conclusion

The iPhone 17 Pro Max represents Apple's most ambitious smartphone to date in 2025 — delivering substantial upgrades across display, performance, camera system, connectivity, storage, and battery life. It combines the power of a professional-grade device with the convenience and polish expected from iPhone. If you demand the best in speed, camera quality, battery endurance, and longevity, iPhone 17 Pro Max stands out as a flagship worthy of serious consideration.