



# iPhone 16 Pro

The **iPhone 16 Pro** and **iPhone 16 Pro Max** are smartphones developed and marketed by Apple Inc. Alongside the iPhone 16 and iPhone 16 Plus, they form the eighteenth generation of the iPhone, succeeding the iPhone 15 Pro and iPhone 15 Pro Max, and were announced on September 9, 2024, and released on September 20, 2024. The iPhone 16 Pro and iPhone 16 Pro Max include larger 6.3-inch and 6.9-inch displays, a faster processor, upgraded wide and ultra-wide cameras, support for Wi-Fi 7, larger batteries, and come pre-installed with the iOS 18 operating system.

## Specifications

### Design and display

The iPhone 16 Pro models continue the edge-to-edge display design but introduce thinner display borders, giving them the thinnest borders of any Apple product to date; iPhone 16 Pro and iPhone 16 Pro Max feature larger 6.3-inch and 6.9-inch Super Retina XDR OLED displays, respectively, with iPhone 16 Pro Max offering the largest iPhone display ever.<sup>[4]</sup> Both models have always-on 19.5:9 aspect ratio displays, with 460 ppi density from a 2622 × 1206 (Pro) and 2868 × 1320 (Pro Max) resolution. Both are 120 Hz, HDR10, with 1000 nits brightness typical and 2000 nits at peak.

Both Pro models come in four new colors, Desert Titanium, Natural Titanium, White Titanium and Black Titanium, offering a lightweight, scratch-resistant exterior.<sup>[5]</sup> The Desert Titanium color replaced the Blue Titanium color used on the iPhone 15 Pro and iPhone 15 Pro Max.

iPhone 16 Pro  
iPhone 16 Pro Max

iPhone 16 Pro  
iPhone 16 Pro Max



iPhone 16 Pro in Desert Titanium

|                            |  |
|----------------------------|--|
| <b>Developer</b>           | <u>Apple</u>   |
| <b>Manufacturer</b>        | <u>Foxconn</u>   |
| <b>Type</b>                | <u>Smartphone</u>  |
| <b>Series</b>              | <u>iPhone Pro</u>  |
| <b>Compatible networks</b> | <u>2G GSM/EDGE</u> , <u>3G UMTS/HSPA+</u> , <u>4G LTE</u> , <u>5G NR</u> |
| <b>First released</b>      | September 9, 2024  |
| <b>Predecessor</b>         | <u>iPhone 15 Pro</u> and <u>15 Pro Max</u>                               |
| <b>Related</b>             | <u>iPhone 16</u> and <u>16 Plus</u>                                      |
| <b>Form factor</b>         | <u>Slate</u>   |

| Color | Name             |
|-------|------------------|
|       | Desert Titanium  |
|       | Natural Titanium |
|       | White Titanium   |
|       | Black Titanium   |

Hardware

The iPhone 16 Pro models are powered by the Apple A18 Pro chip, built using a second-generation 3-nanometer process (TSMC N3E), significantly enhancing performance, especially in AI-related tasks. This chip includes a 6-core CPU, 6-core GPU, and a 16-core Neural Engine with a speed of 35 trillion-operations-per-second that accelerates machine learning capabilities, allowing for seamless integration of Apple Intelligence features. Both models offer 8 GB of memory and storage options ranging from 128 GB (256 GB for Pro Max) to 1 TB.<sup>[6][7][8]</sup>

All iPhone 16 models have an improved thermal design. The main logic board has been updated, centralizing chip placement and optimizing the surrounding architecture. The iPhone 16 Pro lineup maximizes thermal capacity with a machined chassis that uses 100 percent recycled aluminum, bonded to the titanium frame using solid state diffusion. This is combined with a graphite clad aluminum substructure. The new thermal architecture enables a 20 percent improvement in sustained gaming performance compared to the A17 Pro.<sup>[9]</sup>

Every model in the iPhone 16 lineup has support for Wi-Fi 7 (802.11a/b/g/n/ac/ax/be).<sup>[10]</sup> In a teardown by iFixit, the US model's modem was shown to be a Qualcomm SDX71M-000.<sup>[11]</sup>

Camera

The iPhone 16 Pro introduces an upgraded camera system, with three rear cameras and a lidar scanner. It features a "wide", "ultrawide" and "telephoto" lens. The wide camera is 48 megapixels, with sensor-shift optical image stabilization (OIS) and dual-pixel phase detection auto focus (PDAF). The ultrawide camera is 48 MP with a 120-degree field of view, optimized for low-light conditions. A 5× optical

|                   |   |
|-------------------|---|
| Colors            | <div><input type="checkbox"/> Desert Titanium</div> <div><input type="checkbox"/> Natural Titanium</div> <div><input type="checkbox"/> White Titanium</div> <div><input type="checkbox"/> Black Titanium</div>                        |
| Dimensions        | <b>16 Pro:</b> <div>H: 149.6 mm (5.89 in)</div> <div>W: 71.5 mm (2.81 in)</div> <div>D: 8.25 mm (0.325 in)</div> <b>16 Pro Max:</b> <div>H: 163.0 mm (6.42 in)</div> <div>W: 77.6 mm (3.06 in)</div> <div>D: 8.25 mm (0.325 in)</div> |
| Weight            | <b>16 Pro:</b> 199 g (7.0 oz)<br><b>16 Pro Max:</b> 227 g (8.0 oz)  |
| Operating system  | <b>Original:</b> <u>iOS 18.0</u><br><b>Current:</b> <u>iOS 18.1</u> , released October 28, 2024 <sup>[1]</sup>  |
| System-on-chip    | <u>Apple A18 Pro</u>  |
| Memory            | 8 GB <sup>[2]</sup>   |
| Storage           | 128 GB (Pro only), 256 GB, 512 GB, 1 TB <u>NVMe</u>   |
| Removable storage | No  |
| SIM               | Dual eSIM (US models)<br>Dual nano-SIM (mainland China models)<br>Dual nano-SIM and eSIM (Hong Kong and Macau models)<br>nano-SIM and eSIM (worldwide except the US and China)  |
| Battery           | 3582 <u>mAh</u> <u>Li-ion</u> , non-removable   |
| Charging          | <u>MagSafe</u> and <u>Qi 2</u> wireless charging<br>USB-C fast-charge capable   |
| Rear camera       | 48 MP, <i>f</i> /1.8, 24mm (wide)<br>12 MP, <i>f</i> /2.8, 120mm (periscope telephoto)  |

zoom telephoto camera, which was previously exclusive to the iPhone 15 Pro Max, now comes standard on both models. In addition, video recording now supports 4K at 120 frames per second, offering the iPhone's highest resolution and frame rate combination yet and is the only iPhone to record in 4k in slow motion.<sup>[12]</sup>

Camera control button

All iPhone 16 models now come with a new button called Camera Control. This button is on the right side of the device, and allows the user to open the camera app, switch between different camera controls and features, and taking photos and videos. The button can distinguish between light and hard presses. By pressing the button once, it opens the camera app. By lightly pressing it twice, it opens a small menu with different camera controls, such as zoom or tone, and if a user press it hard once, it takes a photo. If a user holds it for a few seconds, it starts a video.<sup>[13]</sup>

Software

One of the iPhone 16 Pro's flagship features is its integration with Apple Intelligence, a suite of AI-driven capabilities that leverage on-device processing for privacy-focused tasks. Apple Intelligence enhances Siri's functionality, improving natural language understanding and introducing generative features such as custom emojis and Visual Intelligence, which can analyze photos and identify objects in real-time. The AI capabilities are designed to run on-device, minimizing data sharing with external servers.

Release and pricing

|              |   |
|--------------|---|
|              | 48 MP, <i>f</i> /2.2, 13mm (ultrawide)<br>TOF 3D <u>LiDAR</u> scanner   |
| Front camera | 12 MP, <i>f</i> /1.9, 23mm (wide), 1/3.6", PDAF, OIS<br><br>SL 3D, (depth/biometrics sensor)  |
| Display      | <b>16 Pro:</b> 6.3-inch<br><b>16 Pro Max:</b> 6.9-inch<br>LTPO Super Retina XDR OLED, 120Hz, HDR10, Dolby Vision, 1000 nits (typ), 2000 nits (HBM)  |
| Sound        | <u>Dolby Atmos</u> -tuned <u>Spatial Audio</u>  |
| Connectivity | Wi-Fi 7 dual-band<br><u>Bluetooth 5.3</u> ( <u>A2DP</u> , <u>LE</u> )<br><u>Ultra-wideband</u> (UWB)<br><u>Thread</u><br><u>NFC</u> (reader mode, Express Cards)<br><u>LEO</u> satellite ( <u>Globalstar</u> , limited)<br><u>USB-C</u> : USB 3.2 10Gb/s<br>Dual-frequency <u>GPS</u> (L1, L5), <u>GLONASS</u> , <u>Galileo</u> , <u>QZSS</u> , <u>BeiDou</u> , <u>NavIC</u>  |
| Data inputs  | <b>List of inputs:</b><br>Precision dual-frequency <u>GNSS</u> ( <u>GPS</u> , <u>GLONASS</u> , <u>Galileo</u> , <u>QZSS</u> , <u>BeiDou</u> and <u>NaviC</u> )<br><u>Multi-touch screen</u><br><u>LiDAR</u> scanner<br>3-mic configuration<br>Embedded motion coprocessor<br>3-axis <u>gyroscope</u><br>3-axis <u>accelerometer</u><br><u>iBeacon</u><br><u>Barometer</u><br><u>Digital compass</u><br><u>Proximity sensor</u><br><u>Ambient light sensor</u> |

Pre-orders for iPhone 16 Pro and iPhone 16 Pro Max began on September 13, 2024, and they became available on September 20, 2024. The iPhone 16 Pro model starts at \$999, while the Pro Max model starts at \$1,199.<sup>[14]</sup>

Availability by region

September 20, 2024

- [Australia](#)
  - [Austria](#)
  - [Bahrain](#)
  - [Brazil](#)
  - [Belgium](#)
  - [Canada](#)
  - [China](#)
  - [Croatia](#)
  - [Czech Republic](#)
  - [Denmark](#)
  - [Finland](#)
  - [France](#)
  - [Germany](#)
  - [Greece](#)
  - [Hong Kong](#)
  - [Hungary](#)
  - [India](#)
  - [Italy](#)
  - [Ireland](#)
  - [Japan](#)
  - [Luxembourg](#)
  - [Malaysia](#)
  - [Mexico](#)
  - [Netherlands](#)
  - [New Zealand](#)
  - [Norway](#)
- [Oman](#)
  - [Poland](#)
  - [Portugal](#)
  - [Qatar](#)
  - [Saudi Arabia](#)
  - [Serbia](#)
  - [Singapore](#)
  - [Slovakia](#)
  - [South Africa](#)
  - [South Korea](#)
  - [Spain](#)
  - [Sweden](#)
  - [Switzerland](#)
  - [Taiwan](#)
  - [Thailand](#)
  - [Turkey](#)
  - [United Arab Emirates](#)
  - [United Kingdom](#)
  - [United States](#)

September 27, 2024

- [Macao](#)
- [Vietnam](#)

October 18, 2024

- [Bangladesh](#)
- [Israel](#)
- [Philippines](#)

|   |  |
|---|--|
|   | <a href="#">Face ID</a>  |
| <a href="#">Water resistance</a>          | <a href="#">IP68</a> dust/water resistant (up to 6 m for 30 mins)  |
| <a href="#">Hearing aid compatibility</a> | M3, T4   |
| <a href="#">Other</a>                     | Face ID, accelerometer, gyro, proximity, compass, barometer<br><br>Ultra Wideband (UWB) support (gen2 chip)<br><br>Emergency SOS, Messages and Find My via satellite     |
| <a href="#">Website</a>                   | <a href="http://www.apple.com/iphone-16-pro/">www.apple.com/iphone-16-pro/</a> ( <a href="http://www.apple.com/iphone-16-pro/">http://www.apple.com/iphone-16-pro/</a> ) |
| <a href="#">References</a>                | <sup>[3]</sup>   |

Indonesian sales ban

On October 20, 2024, the Indonesian [Ministry of Industry](#) announced a formal ban on the sale and use of iPhone 16 models in Indonesia, citing that Apple has not fulfilled their promised investments in the country.<sup>[15]</sup>

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2. <https://www.macrumors.com/2024/09/09/all-iphone-16-models-have-8gb-ram/>
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## External links

- [iPhone 16 Pro \(https://www.apple.com/iphone-16-pro\)](https://www.apple.com/iphone-16-pro) – official website

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