

Apple Watch Ultra - Technical Specifications

Year introduced: 2022

Identify your Apple Watch

Finishes

Titanium

Natural

Made with aerospace-grade titanium for the perfect balance between weight, ruggedness, and corrosion resistance. Case designed with raised edges to protect the flat sapphire front crystal from edge impacts. Super rugged to withstand the elements.

Features

L1 and L5 GPS, GLONASS, Galileo, QZSS, and BeiDou

Compass

Always-on altimeter

Water resistant

100 meters⁴

Certified IP6X dust resistant²

Tested to MIL-STD 810H¹⁵

Blood oxygen sensor

(Blood Oxygen app)³

Electrical heart sensor

(ECG app)⁵

Third-generation optical heart sensor

International emergency calling⁶

Emergency SOS¹

International roaming⁷

High-g accelerometer

Up to 256 g-forces with Fall Detection and Crash Detection

High dynamic range gyroscope

Ambient light sensor

Water temperature sensor

Depth gauge

Dive ready to 40m / 130 ft.

Dual speakers

40% louder than Series 8

Three-microphone array with beamforming and wind noise mitigation

Apple Pay

GymKit

Capacity 32GB

Ceramic and sapphire crystal back

Display

49mm

410 by 502 pixels

1185 sq mm display area

LTPO2 OLED Always-on Retina display

Up to 3000 nits

Chip

S8 SiP with 64-bit dual-core processor

W3

Apple wireless chip

U1 chip

(Ultra Wideband)¹⁰

Connectivity

LTE and UMTS⁸

GPS + Cellular models

Learn more about available carriers

Wi-Fi

802.11b/g/n 2.4GHz and 5GHz

Bluetooth 5.3

Power

Built-in rechargeable lithium-ion battery

Up to 36 hours⁹

Up to 18 hours LTE

USB-C magnetic fast charging cable

Environmental Features¹¹

100% recycled tungsten in the Taptic Engine

100% recycled rare earth elements in all magnets

100% recycled tin in the SiP

Energy efficient¹²

Responsible packaging¹³

Arsenic-free display glass¹⁴

Mercury-, BFR-, PVC-, and beryllium-free¹⁴

Dimensions

49mm

Height: 49mm

Width: 44mm

Depth: 14.4mm

Weight

49mm

Titanium: 61.3g

In the Box

Apple Watch Ultra

Band/Loop

Apple Watch Magnetic Fast Charger to USB-C Cable (1m)

The case materials and the band types would be based on your selection

Emergency SOS requires a cellular connection or Wi-Fi Calling with an internet connection from your Apple Watch or nearby iPhone.

Apple Watch Ultra is rated IP6X dust resistant.

Blood Oxygen app measurements are not intended for medical use, including self-diagnosis or consultation with a doctor, and are only designed for general fitness and wellness purposes.

Apple Watch Ultra has a water resistance rating of 100 meters under ISO standard 22810. It may be used for recreational scuba diving (with compatible third-party app from the App Store) to 40 meters and high-speed water sports. Apple Watch Ultra should not be used for diving below 40 meters. Water resistance is not a permanent condition and can diminish over time. For additional information see support.apple.com/HT205000.

The ECG app and irregular rhythm notification require the latest version of watchOS and iOS, and are not intended for use by people under 22 years old. The ECG app is available on Apple Watch Series 4 or later (not including Apple Watch SE). The irregular rhythm notification is not designed for people who have been previously diagnosed with AFib.

The international emergency calling feature requires an Apple Watch Ultra (Cellular), Apple Watch Series 8 (GPS + Cellular), Apple Watch Series 7 (GPS + Cellular), or Apple Watch SE

(GPS + Cellular) model. For a list of supported countries and regions, see apple.com/watchos/feature-availability.

International roaming coverage is determined by your carrier. Please check with your carrier for details. For a list of supported carriers, see apple.com/watch/cellular.

Wireless service plan required for cellular service. Contact your service provider for more details. Connection may vary based on network availability. Check apple.com/watch/cellular for participating wireless carriers and eligibility. See support.apple.com/en-us/HT207578 for additional setup instructions.

All-day battery life is based on the following use: 180 time checks, 180 notifications, 90 minutes of app use, and a 60-minute workout with music playback from Apple Watch via Bluetooth, over the course of 36 hours; Apple Watch Ultra (GPS + Cellular) usage includes a total of 8 hours of LTE connection and 28 hours of connection to iPhone via Bluetooth over the course of 36 hours. Testing conducted by Apple in August 2022 using preproduction Apple Watch Ultra (GPS + Cellular) paired with an iPhone; all devices tested with prerelease software. Battery life varies by use, configuration, cellular network, signal strength, and many other factors; actual results will vary.

Ultra Wideband availability varies by region.

Data accurate as of product launch.

Meets California Energy Commission's Energy Efficiency Standards for Small Battery Charger Systems as outlined in the California Code of Regulations.

100% of virgin wood fiber comes from responsibly managed forests and 90% or more of the packaging is fiber-based.

Apple defines its restrictions on harmful substances, including definitions for what Apple considers to be "free of," in the Apple Regulated Substances Specification. Every Apple product is free of PVC and phthalates with the exception of AC power cords in India, Thailand (for 2-prong AC power cords), and South Korea where we continue to seek government approval for our PVC and phthalates replacement.

Tested against subsections for Altitude, High Temperature, Low Temperature, Temperature Shock, Immersion, Freeze/Thaw, Shock, and Vibration.