

Apple Watch Series 8 - Technical Specifications

Year introduced: 2022

Identify your Apple Watch

Finishes

GPS + Cellular

Aluminum

Midnight

Starlight

Silver

(PRODUCT)RED10

Stainless Steel

Graphite (PVD)

Silver

Gold (PVD)

GPS

Aluminum

Midnight

Starlight

Silver

(PRODUCT)RED10

Apple Watch Hermès : Stainless Steel available in silver and space black (DLC).

Features

L1 GPS, GLONASS, Galileo, QZSS, and BeiDou

Compass

Always-on altimeter

Water resistant

50 meters³

Certified IP6X dust resistant²

Blood oxygen sensor

(Blood Oxygen app)⁴

Electrical heart sensor

(ECG app)⁵

Third-generation optical heart sensor

International emergency calling⁶

Emergency SOS¹

International roaming⁸

High-g accelerometer

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

High dynamic range gyroscope

Ambient light sensor

Speaker

Microphone

Apple Pay

GymKit

Capacity 32GB

Ceramic and sapphire crystal back

Display

45mm

396 by 484 pixels

1143 sq mm display area

41mm

352 by 430 pixels

904 sq mm display area

Always-On Retina LTPO OLED display

Up to 1000 nits brightness

Chip

S8 SiP with 64-bit dual-core processor

W3

Apple wireless chip

U1 chip

(Ultra Wideband)¹¹

Connectivity

LTE and UMTS⁷

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 18 hours⁹

USB-C magnetic fast charging cable

Environmental Features¹²

100% recycled aluminum in the case

100% recycled tungsten in the Taptic Engine

100% recycled rare earth elements in all magnets

100% recycled tin in the SiP

Energy efficient¹³

Responsible packaging¹⁴

Arsenic-free display glass¹⁵

Mercury-, BFR-, PVC-, and beryllium-free¹⁵

Dimensions

41mm

Height: 41mm

Width: 35mm

Depth: 10.7mm

45mm

Height: 45mm

Width: 38mm

Depth: 10.7mm

Weight

41mm

Aluminum

GPS + Cellular : 32.2g

GPS : 31.9g

Stainless Steel

GPS + Cellular : 42.3g

45mm

Aluminum

GPS + Cellular : 39.1g

GPS : 38.8g

Stainless Steel

GPS + Cellular : 51.5g

In the Box

Apple Watch Series 8

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 Series 8 is rated IP6X dust resistant.

Apple Watch Series 8 has a water resistance rating of 50 meters under ISO standard 22810:2010. This means that it may be used for shallow-water activities like swimming in a pool or ocean. However, Apple Watch Series 8 should not be used for scuba diving, waterskiing, or other activities involving high-velocity water or submersion below shallow depth. Water resistance is not a permanent condition and can diminish over time. For additional information see support.apple.com/en-us/HT205000.

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.

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.

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.

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.

All-day battery life is based on the following use: 90 time checks, 90 notifications, 45 minutes of app use, and a 60-minute workout with music playback from Apple Watch via Bluetooth, over the course of 18 hours; Apple Watch Series 8 (GPS) usage includes connection to iPhone via Bluetooth during the entire 18-hour test; Apple Watch Series 8 (GPS + Cellular) usage includes a total of 4 hours of LTE connection and 14 hours of connection to iPhone via Bluetooth over the course of 18 hours. Testing conducted by Apple in August 2022 using preproduction Apple Watch Series 8 (GPS) and Apple Watch Series 8 (GPS + Cellular), each 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.

A portion of the proceeds from every (PRODUCT)RED purchase goes to the Global Fund to fight AIDS and mitigate the impact of COVID-19 with (RED). See apple.com/product-red for more information.

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.

Apple Watch Ultra, Apple Watch Series 8, and Apple Watch SE require an iPhone 8 or later with iOS 16 or later.