

## **Apple M1 Pro chip**

10-core CPU with 8 performance cores and 2 efficiency cores

16-core GPU

16-core Neural Engine

200GB/s memory bandwidth

## **Media engine**

Hardware-accelerated H.264, HEVC, ProRes and ProRes RAW

Video decode engine

Video encode engine

ProRes encode and decode engine

## **Configurable to:**

M1 Max with 10-core CPU and 24-core GPU or

M1 Max with 10-core CPU and 32-core GPU

## **Liquid Retina XDR display**

16.2-inch (diagonal) Liquid Retina XDR display;<sup>1</sup> 3456x2234 native resolution at 254 pixels per inch

## **XDR (Extreme Dynamic Range)**

1,000,000:1 contrast ratio

XDR brightness: 1,000 nits sustained full-screen, 1,600 nits peak<sup>2</sup> (HDR content only)

SDR brightness: 500 nits

## **Colour**

1 billion colours

Wide colour (P3)

True Tone technology

## Refresh rates

ProMotion technology for adaptive refresh rates up to 120Hz

Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz

## Memory

**16GB**

16GB unified memory

**Configurable to:**

32GB (M1 Pro or M1 Max) or 64GB (M1 Max)

**16GB**

16GB unified memory

**Configurable to:**

32GB (M1 Pro or M1 Max) or 64GB (M1 Max)

**32GB**

32GB unified memory

**Configurable to:**

**64GB**

## Battery and

### Power<sup>3</sup>

Up to 21 hours Apple TV app movie playback

Up to 14 hours wireless web

100-watt-hour lithium-polymer battery<sup>3</sup>

140W USB-C Power Adapter

USB-C to MagSafe 3 Cable

Fast-charge capable with included 140W USB-C Power Adapter

## **Storage<sup>4</sup>**

**512GB**

512GB SSD

**Configurable to:**

1TB, 2TB, 4TB or 8TB

**1TB**

1TB SSD

**Configurable to:**

2TB, 4TB or 8TB

**1TB**

1TB SSD

**Configurable to:**

2TB, 4TB or 8TB

## **Charging and Expansion**

SDXC card slot

HDMI port

3.5mm headphone jack

MagSafe 3 port

Three Thunderbolt 4 (USB-C) ports with support for:

Charging

DisplayPort

Thunderbolt 4 (up to 40Gb/s)

USB 4 (up to 40Gb/s)

## **Display Support**

**Simultaneously supports full native resolution on the built-in display at 1 billion colours and:**

Up to two external displays with up to 6K resolution at 60Hz at over a billion colours (M1 Pro) or Up to three external displays with up to 6K resolution and one external display with up to 4K resolution at 60Hz at over a billion colours (M1 Max)

### **Thunderbolt 4 digital video output**

Native DisplayPort output over USB-C

VGA, HDMI, DVI and Thunderbolt 2 output supported using adapters (sold separately)

### **HDMI digital video output**

Support for one display with up to 4K resolution at 60Hz

DVI output using HDMI to DVI Adapter (sold separately)

## **Video Playback**

Supported formats include HEVC, H.264 and ProRes

HDR with Dolby Vision, HDR10 and HLG

## **Audio Playback**

Supported formats include AAC, MP3, Apple Lossless, FLAC, Dolby Digital, Dolby Digital Plus and Dolby Atmos

## **Keyboard and Trackpad**

**Backlit Magic Keyboard with:**

78 (US) or 79 (ISO) keys including 12 full-height function keys and 4 arrow keys in an inverted “T” arrangement

Touch ID

Ambient light sensor

Force Touch trackpad for precise cursor control and pressure-sensing capabilities; enables Force clicks, accelerators, pressure-sensitive drawing and Multi-Touch gestures

## Wireless

### Wi-Fi

802.11ax Wi-Fi 6 wireless networking  
IEEE 802.11a/b/g/n/ac compatible

### Bluetooth

Bluetooth 5.0 wireless technology

## Camera

1080p FaceTime HD camera  
Advanced image signal processor with computational video

## Audio

High-fidelity six-speaker sound system with force-cancelling woofers

Wide stereo sound

Support for spatial audio when playing music or video with Dolby Atmos on built-in speakers

Spatial audio with dynamic head tracking when using AirPods (3rd generation), AirPods Pro and AirPods Max

Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming

3.5mm headphone jack with advanced support for high-impedance headphones

## Operating Requirements

**Line voltage:** 100V to 240V AC

**Frequency:** 50Hz to 60Hz

**Operating temperature:** 10° to 35° C (50° to 95° F)

**Storage temperature:** -25° to 45° C (-13° to 113° F)

**Relative humidity:** 0% to 90% non-condensing

**Operating altitude:** tested up to 3,000 metres (10,000 feet)

**Maximum storage altitude:** 4,500 metres (15,000 feet)

**Maximum shipping altitude:** 10,500 metres (35,000 feet)

## **Size and Weight**

**Height:** 1.68 cm (0.66 inches)

**Width:** 35.57 cm (14.01 inches)

**Depth:** 24.81 cm (9.77 inches)

**Weight (M1 Pro):** 2.1 kg (4.7 pounds)<sup>5</sup>

**Weight (M1 Max):** 2.2 kg (4.8 pounds)<sup>5</sup>