



# Product announcements from Apple: October 2024

New iPad Mini plus new iMacs, plus new Mac Mini's and finally new Macbook Pros. Oh a surprise tweak to a previously updated Mac.

# Introduction

- ▶ Apple did not hold a traditional online event for the new Apple hardware products.
- ▶ Instead they had Oct 15<sup>th</sup> press announcement for the new iPad mini 7, then starting Monday Oct 28<sup>th</sup> through Wednesday Oct 30<sup>th</sup> they had press announcements one each day for the iMac, Mac Mini, and Macbook Pro.
- ▶ They do have ~10 to 16 minute videos with the iMac, Mac Mini, and Macbook Pro on Apples website. These could have been part of a hour plus event if they held it
- ▶ Finally the one clear point seems to be that Apple Intelligence (Apple's name for Artificial Intelligence), for the future at least; seems to require memory of 8 GB on IOS devices and 16 GB on Mac devices.
  - ▶ This may be an issue for those who purchased devices previously that did not have this amount

## New iPad Mini

- ▶ Lets first review Apple's iPad models for context.
- ▶ iPad (10<sup>th</sup> Generation) : Entry Level 11 inch diagonal screen, A14 Processor, Wifi and Wifi and Cellular models. Updated May 2024
- ▶ iPad Air (M2): Mid Grade 11 or 13 inch models, M2 processor, Wifi and Wifi and Cellular models. Updated May 2024
- ▶ iPad Pro (M4): Top of the line, PRO 11 or 13 inch models, M4 processor, Wifi and Wifi and Cellular models. Updated May 2024
- ▶ New iPad Mini Generation 7 Updated October 15th 2024. iPad minis are iPads in a small form factor. (8.3 inch) Colors: Blue Purple, Starlight, Space Gray



# New iPad Mini Comparison

iPad Mini 6	Spec	iPad Mini 7
8.3 Inch 2266x1488	Screen Size	8.3 Inch 2266x1488
A15 Bionic	Processor	A17 Pro
64 GB or 256 GB	Storage	128 GB, 256GB or 512 GB
4 GB	Memory	8 GB
Nano sim & eSim	Sim (cellular model)	eSim
USB-C	Connection	USB-C
Apple Pencil 2 <sup>nd</sup> Gen	Pencil (separate purchase)	Apple Pencil Pro & Apple Pencil USB-C
1 - 12 MP Ultra Wide FaceTime HD, 1 - 12 MP Wide rear	Cameras	1 - 12 MP Ultra Wide FaceTime HD, 1 - 12 MP Wide rear

Per Apple the iPad Mini 7 is “is built for Apple Intelligence”  
Shipped Oct 23<sup>rd</sup>.

# New iMacs

► Announced October 28<sup>th</sup> Available Nov 8<sup>th</sup> 2024



•Colors: Blue,Purple,Pink,Orange,Yellow,Green, and Silver

## New iMacs (cont'd)

- ▶ Still 24 inch Retina 4.5K display: 4480 by 2520 pixels as previous 2023 M3 Model. No 27 or 30 inch version. Optional nano texture glass for reduced glare.
- ▶ Now has M4 Chip: 8 core CPU/8 core GPU/ 16 core neural engine on entry level model, 10 core CPU/10 core GPU/ 16 core neural engine on all higher level models. Apple says up to 2X faster than M1 iMacs, up to 6X over Intel iMacs.
  - ▶ Wait for 3rd party performance tests for more real world info.
- ▶ Base Memory is bumped from 8 GB to 16 GB. Options to upgrade to 24 GB or 32GB. Note 32GB not available on entry level model or on mid level model with 256 GB SSD hard drive storage
- ▶ Baseline model storage is 256 GB SSD, 512 GB and 1 TB options available. Higher level models can get a 2 TB option.
- ▶ Gigabit wired Ethernet optional on entry level model, standard on higher level monitors. Note this if you have a non wireless ethernet printer.

## New iMacs (cont'd)

- ▶ Camera has been updated from a 1080P to a 12 Megapixel on all versions. The camera adds Apple's center stage that keep you framed as you move around or add additional people to the frame.
- ▶ Two thunderbolt 4 ports on the entry level model. Four thunderbolt 4 ports on the higher level models. These ports also handle USB 4 (up to 40Gb/s), USB 3.1 Gen 2 (up to 10Gb/s), and DisplayPort devices. They use the USB C type connector.
- ▶ Question of how to connect older devices with USB A style cables has come up and been answered many times in our group.



\$5.03 at  
Monoprice & at  
many others



Anker USB-C Hub  
Has 4 USB 3 type  
A ports \$16



OWC USB C Dock has  
2 USB, 1 HDMI, 1 SD  
Card slots \$35

# New Mac Mini's

► Announced October 29<sup>th</sup> Available Nov 8<sup>th</sup> 2024



•Colors: Silver

•Size: 5" X 5" X 2 " this is smaller than the previous generation Mac Mini at 7.75" X 7.75" X 1.41 " but not as small as the Apple TV at 3.66" X 3.66" X 1.2"



## New Mac Mini's (cont'd)

- ▶ Big change is to Apple's M4 chip from M2.
  - ▶ M4 models have 10 core CPU/10 core GPU/ 16 core neural engine.
  - ▶ Top Line model M4 PRO has 12 core CPU/16 core GPU/ 16 core neural engine. Memory bus speed is increased to 273 GB/s from 120 GB/s For \$200 more you can step up to a 14 core CPU/20 core GPU/ 16 core neural engine
- ▶ Base Memory is now 16 GB.
  - ▶ The two high end models ship with 24GB
  - ▶ All but Top model have optional 24GB or 32 GB
  - ▶ Top Model (M4 PRO) has optional 48 or 64 GB
- ▶ Baseline storage is 256 GB SSD on low end model , 512 GB on all models higher. Available options for 512 GB (low end model), 1 TB, 2TB. The M4 Pro version can also have 4 TB or 8 TB.
- ▶ Audio: Built in speaker. 3.5mm Headphone jack on front. Multi-Channel audio over HDMI

## New Mac Mini's (cont'd)

- ▶ 1 GB ethernet port on the back. Can be upgraded to 10GB ethernet.
- ▶ Connections:
  - ▶ Two USB 3 type C on front panel
  - ▶ Three Thunderbolt 4 ports on all but Top model. These can handle USB 4 and Display port functionality also
  - ▶ Top end M4 Pro has three Thunderbolt 5 ports. These can handle USB 4 and Display port functionality also
- ▶ All models can support up to three external displays.
  - ▶ Apple breaks down all the display support in their Tech Specs. Too much detail for this presentation.
- ▶ Again as with the iMac in the previous slides, there are solutions for those with USB type A devices and cables.
- ▶ Oh the biggest crisis the world has ever faced (according to some) - Power button is on the bottom!!

# New Macbook Pros

► Announced October 30<sup>th</sup> Available Nov 8<sup>th</sup> 2024



Colors: Space Black and Silver



## New MacBook Pros (cont'd)

- ▶ As with previous MacBook Pros, they are available in 14 inch (3024 X 1964) liquid retina and 16 inch (3456 X 2234) liquid retina sizes.
  - ▶ Improved brightness up to 1000 nits of brightness for SDR content.
  - ▶ Optional Nano texture finish for reduced glare.
- ▶ Camera has been updated from a 1080P to a 12 Megapixel on all versions. The camera adds Apple's center stage that keep you framed as you move around or add additional people to the frame.
- ▶ M4, M4 Pro, and M4 Max Chips ( screen size dependencies make it complicated see models next screen.
- ▶ 16 GB Memory now the default amount
- ▶ M4 models have 3 Thunderbolt 4 ports, M4 Pro and Max have 3 Thunderbolt 5 ports.
- ▶ MacBook Pros also have HDMI port (8K) and SDXC slot
- ▶ M4 and M4 Pro can support 2 external displays, M4 Max can support up to 4
- ▶ Up to 24 hour battery life M4, 22 Hour M4 Pro, 18 hour M4 Max

## New Macbook Pros (cont'd)

- ▶ Base 14 inch M4 Chip: 10 core CPU/10 Core GPU/ 16 core neural engine. Has 16 GB memory. Upgrade to 24GB or 32 GB. 512 GB storage with optional 1 TB, or 2 TB.
- ▶ 14 inch M4 Pro Chip: 12 core CPU/16 Core GPU/ 16 core neural engine or upgrade to 14 core CPU/20 Core GPU/ 16 core neural engine. Has 24 GB memory. Upgrade to 48GB. 512 GB storage with optional 1 TB, 2TB or 4TB.
- ▶ 14 inch M4 Max Chip: 14 core CPU/32 Core GPU/ 16 core neural engine or upgrade to 16 core CPU/40 Core GPU/ 16 core neural engine. Has 36 GB memory. Upgrade to 64 or 128GB with 40 core GPU M4 Max chip only. 1 TB storage with optional 2 TB, 4TB or 8TB.
- ▶ Base 16 inch M4 Pro Chip (note no M4) : 14 core CPU/20 Core GPU/ 16 core neural engine. Has 24 GB memory. Upgrade to 48 GB. 1 TB storage with optional 2 TB, 4TB.
- ▶ 16 inch M4 Max Chip: 14 core CPU/32 Core GPU/ 16 core neural engine or upgrade to 16 core CPU/40 Core GPU/ 16 core neural engine. Has 36 GB memory. Upgrade to 64 or 128GB with 40 core GPU M4 Max chip only. 1 TB storage with optional 2 TB, 4TB or 8TB.

# MacBook Air Surprise tweak

- ▶ MacBook Air M2 was introduced in July 2022 and remains the base model today,
- ▶ MacBook Air M3 in 13 inch and 15 inch sizes was introduced in March of 2024.
- ▶ The base amount of memory was 8 GB
- ▶ As of today the base amount of memory has increased to 16 GB
- ▶ Pricing remains the same.
  - ▶ Great deal except rumored M4 MacBook airs in 2025