



First Look

Mac Pro

October 2013

Mac Pro is the professional desktop computer reinvented from the inside out. Engineered around workstation graphics with dual GPUs, PCIe-based flash storage, high-performance Thunderbolt 2 I/O, new-generation Xeon processors, ultrafast memory, and support for 4K video, the new Mac Pro delivers state-of-the-art performance across the board.

	Quad-Core	6-Core
Processor	3.7GHz quad-core Intel Xeon E5	3.5GHz 6-core Intel Xeon E5
Graphics	Dual AMD FirePro D300 with 2GB each	Dual AMD FirePro D500 with 3GB each
Memory	12GB 1866MHz DDR3 ECC	16GB 1866MHz DDR3 ECC
Storage	256GB PCIe-based flash storage	
Ports	Six Thunderbolt 2, Four USB 3, HDMI 1.4, Two Gigabit Ethernet	

Key Messages

Completely reinvented

- Stunning new design
- Unified thermal core allows a compact design that's cooled with a single fan and is very quiet
- One-eighth the volume of the previous Mac Pro

Latest Intel Xeon E5 processors

- New Intel Xeon E5 processors
- 4, 6, 8, or 12 cores and up to 30MB L3 cache on a single die
- Four-channel 1866MHz memory controller provide up to 2x the memory bandwidth of the previous generation Mac Pro
- 40GB/s of PCI Express gen 3 bandwidth

Dual workstation-class GPUs standard

- Dual AMD FirePro GPUs in every Mac Pro
- Each GPU connected to the system via a dedicated x16 gen 3 internal connection
- Up to 6GB of GDDR5 video memory per GPU and up to 2048 stream processors per GPU for tremendous graphics and compute performance
- Supports up to three 4K displays or up to six Thunderbolt displays

PCIe-based flash storage

- Up to 10x faster than a standard 7200-rpm hard drive
- Supports up to 1TB of internal storage

Most advanced I/O technology

- Six Thunderbolt 2 ports offer the fastest, most versatile I/O available
- Three independent Thunderbolt 2 controllers provides 20Gb/s throughput per port and support up to 36 devices
- Thunderbolt 2 supports displays and high-performance expansion devices including storage, 4K displays, and PCIe expansion chassis
- Four USB 3 ports, which are up to 10 times faster than and backward compatible with USB 2
- HDMI 1.4 port for easy connectivity to HDTVs and projectors, including the latest UltraHD (4K) displays

Quick Demos

Showcase the new design

- Highlight the new design that's compact and quiet, yet packs incredible performance inside.

Show the expansion ports

- Point out that the six Thunderbolt 2 ports provides tremendous expansion. Each port supports 20Gb/s of bandwidth and up to six devices daisy-chained for a total of 36 devices, making it the most expandable Mac.
- You can connect displays, storage, video and audio I/O devices, and even PCIe expansion chassis to support existing PCIe cards.

Show off the performance

- Open Final Cut Pro X and play a sample project. Final Cut Pro X is one of many apps optimized to take advantage of the dual GPUs in the Mac Pro to deliver incredible performance.
- Launch Aperture. Launching large apps and loading a big photo library is snappy thanks to the ultrafast flash storage. Click through a photo library. Mac Pro handles demanding graphics applications with speed and fluidness.
- Browse the web, open email, navigate maps—everything you do on the system is fast and responsive, thanks to the powerful multi-core Xeon processor, dual workstation-class GPUs, and ultrafast PCIe-based flash storage.

Essential Additions

- Apple Wireless Keyboard and Magic Mouse
- Apple Thunderbolt Display
- Sharp 4K desktop display
- Promise Pegasus 2 external storage
- 0.5M/2.0M Thunderbolt Cables

Additional Resources

On Apple.com:

- [Mac Pro](#)
- [Mac Pro Tech Specs](#)
- [Mac in Business](#)

On Apple Sales Web:

- [Mac Pro Product Page](#)
- [Mac Pro - Then and Now](#)