

Technical Specifications

Processing

8-core: Two 2.26GHz, 2.66GHz, or 2.93GHz Quad-Core Intel Xeon 5500 series processors

Quad-core: One 2.66GHz, 2.93GHz, or 3.33GHz Quad-Core Intel Xeon 3500 series processor



Next-generation Intel microarchitecture

- 8MB of fully shared L3 cache per processor
- Integrated memory controller
- Turbo Boost dynamic performance (up to 3.33GHz on 8-core 2.93GHz system, up to 3.6GHz on quad-core 3.33GHz system)
- Hyper-Threading technology for up to 16 virtual cores
- 128-bit SSE4 SIMD engine
- 64-bit data paths and registers
- Optimized for energy efficiency

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Memory

1066MHz DDR3 ECC SDRAM

8-core: Eight memory slots (four per processor) supporting up to 32GB of main memory using 1GB, 2GB, or 4GB DIMMs

Quad-core: Four memory slots supporting up to 16GB of main memory using 1GB, 2GB, or 4GB DIMMs

Graphics and displays

Double-wide, 16-lane PCI Express 2.0 graphics slot with one of the following graphics cards installed:

- NVIDIA GeForce GT 120 with 512MB of GDDR3 memory, PCI Express 2.0, one Mini DisplayPort, and one dual-link DVI port
- ATI Radeon HD 4870 with 512MB of GDDR5 memory, PCI Express 2.0, one Mini DisplayPort, and one dual-link DVI port



Multiple graphics card configurations available with two, three, or four NVIDIA GeForce GT 120 cards

Storage

Four 3.5-inch cable-free, direct-attach hard drive bays with built-in independent 3Gb/s Serial ATA channels; four internal hard drive carriers included



Up to 8TB of internal storage³ in hard drive bays 1 through 4 using hard drives in the following capacities:

- 640GB Serial ATA 3Gb/s, 7200 rpm, 16MB cache
- 1TB or 2TB Serial ATA 3Gb/s, 7200 rpm, 32MB cache
- Optional Mac Pro RAID Card with 512MB cache and 72-hour cache battery backup
- 18x SuperDrive with double-layer support (DVD±R/DL/DVD±RW/CD-RW)
 - Writes DVD+R and DVD-R discs at up to 18x speed
 - Writes DVD+R DL and DVD-R DL discs at up to 8x speed
 - Writes DVD+RW discs at up to 8x speed
 - Writes DVD-RW discs at up to 6x speed
 - Reads DVDs at up to 18x speed
 - Writes CD-R and CD-RW discs at up to 32x speed
 - Reads CDs at up to 32x speed
- One open optical drive bay for optional second SuperDrive

Electrical and operating requirements

- Line voltage: 100–120V AC or 200–240V AC (wide-range power supply input voltage)
- Frequency: 50Hz to 60Hz single phase
- Current: Maximum of 12A (low-voltage range) or 6A (high-voltage range)
- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum operating altitude: 10,000 feet

Connections and audio

Four FireWire 800 ports (two on front panel, two on back panel)

Five USB 2.0 ports (two on front panel, three on back panel)

Two USB 2.0 ports on included keyboard

Front-panel headphone minijack and internal speaker

Optical digital audio input and output TOSLINK ports

Analog stereo line-level input and output minijacks



PCI Express expansion

Three open full-length PCI Express expansion slots⁵

- One PCI Express 2.0 x16 slot
- Two PCI Express 2.0 x4 slots

All slots provide mechanical support for 16-lane cards

300W combined maximum for all PCI Express slots

Software

Mac OS X v10.6 Snow Leopard (includes iTunes, Time Machine, Quick Look, Spaces, Spotlight, Dashboard, Mail, iChat, Safari, Address Book, QuickTime, iCal, DVD Player, Photo Booth, Front Row, Xcode Developer Tools)

iLife (includes iPhoto, iMovie, iDVD, iWeb, and GarageBand)

You can also have the following software preinstalled, only at the Apple Online Store:

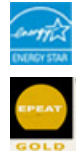
- iWork
- Final Cut Express
- Aperture
- Logic Express
- FileMaker
- MobileMe



Size and weight

- Support for up to eight 30-inch displays ¹
- Support for digital resolutions up to 2560 by 1600 pixels
- Support for analog resolutions up to 2048 by 1536 pixels
- Video adapters available for:
 - Additional DVI output using Mini DisplayPort to DVI Adapter (optional)
 - Additional dual-link DVI output using Mini DisplayPort to Dual-Link DVI Adapter (optional)
 - VGA output using Mini DisplayPort to VGA Adapter or DVI to VGA Display Adapter (optional)

- BFR-free
- PVC-free (internal cables)
- Highly recyclable aluminum enclosure
- Meets ENERGY STAR 5.0 requirements ⁴
- Rated EPEAT Gold ⁴



Size and weight

- Height: 20.1 inches (51.1 cm)
- Width: 8.1 inches (20.6 cm)
- Depth: 18.7 inches (47.5 cm)
- Weight (standard configuration):
 - 8-core: 41.2 pounds (18.7 kg) ⁶
 - Quad-core: 39.9 pounds (18.1 kg) ⁶

Communications

Two independent 10/100/1000BASE-T Ethernet (RJ-45) interfaces with support for jumbo frames

Bluetooth 2.1 + Enhanced Data Rate (EDR) wireless technology

Optional AirPort Extreme 802.11n Wi-Fi wireless networking card; ² IEEE 802.11a/b/g compatible



In the box

- Mac Pro
- Power cord
- Apple Keyboard with Numeric Keypad and Apple Mouse
- USB keyboard extension cable
- Install/restore DVDs
- Printed and electronic documentation



Configuration Options

See detailed pricing and configurations

	Quad-Core (MB871LL/A)	8-Core (MB535LL/A)
Processor	2.66GHz Quad-Core Intel Xeon	Two 2.26GHz Quad-Core Intel Xeon
Cache	8MB fully shared L3 cache	8MB fully shared L3 cache per processor
Memory	3GB (three 1GB DIMMs) of 1066MHz DDR3 ECC SDRAM	6GB (six 1GB DIMMs) of 1066MHz DDR3 ECC SDRAM
PCI Express 2.0 graphics	NVIDIA GeForce GT 120 with 512MB GDDR3 memory, Mini DisplayPort, and dual-link DVI video output	
Hard disk drive	640GB Serial ATA (3Gb/s); 7200 rpm	
Optical drive	18x SuperDrive with double-layer support (DVD±R DL/DVD±RW/CD-RW)	
Wireless	Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) wireless technology	
PCI Express	Three open full-length PCI Express 2.0 expansion slots with mechanical support for 16-lane cards; 300W combined maximum for all PCI Express slots	
Build-to-Order Options	2.93GHz Quad-Core Intel Xeon 3.33GHz Quad-Core Intel Xeon 6GB memory (three 2GB DIMMs) 8GB memory (four 2GB DIMMs) 12GB memory (three 4GB DIMMs) 16GB memory (four 4GB DIMMs) ATI Radeon HD 4870 with 512MB GDDR5 Two NVIDIA GeForce GT 120 Three NVIDIA GeForce GT 120	Two 2.66GHz Quad-Core Intel Xeon Two 2.93GHz Quad-Core Intel Xeon 8GB memory (four 2GB DIMMs) 12GB memory (six 2GB DIMMs) 16GB memory (eight 2GB DIMMs) 32GB memory (eight 4GB DIMMs) ATI Radeon HD 4870 with 512MB GDDR5 Two NVIDIA GeForce GT 120 Three NVIDIA GeForce GT 120

Four NVIDIA GeForce GT 120
 Hard drive bays 1–4: 640GB, 1TB, or 2TB Serial ATA 3Gb/s (7200 rpm)³
 Mac Pro RAID Card
 Two 18x SuperDrive optical drives
 AirPort Extreme Wi-Fi card with 802.11n²
 Apple Keyboard
 Apple Wireless Keyboard
 Dual-Channel 4Gb Fibre Channel card
 Quad-Channel 4Gb Fibre Channel card

Four NVIDIA GeForce GT 120
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 Apple Keyboard
 Apple Wireless Keyboard
 Dual-Channel 4Gb Fibre Channel card
 Quad-Channel 4Gb Fibre Channel card

Learn more about options for Mac Pro.



Upgrades

- 1GB Memory Kit
- 2GB Memory Kit
- 4GB Memory Kit
- 640GB SATA Drive Kit
- 1TB SATA Drive Kit
- 2TB SATA Drive Kit
- Promise 450GB SAS Drive for Mac Pro
- Mac Pro RAID Card
- ATI Radeon HD 4870 Graphics Upgrade Kit
- Apple Dual-Channel 4Gb Fibre Channel PCI Express Card
- Apple Quad-Channel 4Gb Fibre Channel PCI Express Card



Accessories

- Apple LED Cinema Display
- Time Capsule
- AirPort Extreme Base Station
- AirPort Express Base Station
- Apple Keyboard
- Apple Wireless Keyboard
- Magic Mouse
- MobileMe Subscription
- AppleCare Protection Plan



Applications

- Final Cut Studio
- Final Cut Express
- Aperture
- Logic Pro
- Logic Express
- Mac OS X Server v10.6 (Unlimited-client license)
- Apple Remote Desktop
- iWork

Apple Online Store



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1. Requires installation of four NVIDIA GeForce GT 120 graphics cards.
2. Wireless Internet access requires a wireless access point and Internet access; fees may apply.
3. 1GB = 1 billion bytes and 1TB = approximately 1 trillion bytes; actual formatted capacity less.
4. Mac Pro systems configured with a Mac Pro RAID card or Fibre Channel card do not meet ENERGY STAR and EPEAT requirements.
5. PCI Express slots are not compatible with PCI or PCI-X expansion cards.

6. Actual weight varies by configuration and manufacturing process.

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