The Apple Power Macintosh 8100 computers set new Macintosh speed and performance standards, which is tremendous news for publishers, engineers, and multimedia professionals.

There's the Power Macintosh 8100/80, the most affordable of these high-speed computers; and the Power Macintosh 8100/110, the fastest Macintosh computer ever.

These computers run virtually all Macintosh applications. In addition, they run applications accelerated for Power Macintosh computers at two to six times the speed of previous Macintosh computers.

The 8100 computers can also run MS-DOS and Windows applications using SoftWindows software, available from Insignia Systems.

The two computers are based on the PowerPC 601 microprocessor codeveloped by Apple, IBM, and Motorola, and while the 8100/80 runs at 80 megahertz, the 8100/110 runs at a breathtaking 110 megahertz.

The 8100 computers support all Apple and most third-party displays, including monochrome, color, VGA, and SVGA. They support up to 16.7 million colors on Apple color displays of up to 17 inches. With the addition of 2 megabytes of VRAM (to total 4 megabytes), the 8100/80 and 8100/110 support 16.7 million colors on displays of up to 21 inches.

These Power Macintosh 8100 computers are easy to expand because each includes three NuBus slots. They also provide GeoPort telecommunications, which allows you to integrate them with telephone services. The series also offers speech-recognition and text-to-speech capabilities.

The Power Macintosh 8100 computers are designed to meet the most demanding power, speed, and expandability requirements of publishing, engineering, and multimedia customers.
Technical Specifications

Microprocessor
- PowerPC 601 RISC microprocessor running at 110 MHz (8100/110 only)
- PowerPC 601 RISC microprocessor running at 80 MHz (8100/80)
- Integrated floating-point unit and 32K cache
- 256K level-2 cache

Memory
- Comes with 16MB or 24MB of RAM
- Can be expanded to up to 264MB of RAM
- Uses 72-pin, noncomposite 80-nanosecond or faster DRAM SIMMs that must be installed in pairs

Disk drives
- Includes one built-in Apple SuperDrive 1.4MB floppy disk drive that uses high-density floppy disks and reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Includes one internal hard disk (500MB, 1GB, and 2GB options available)
- Supports one 5.25-in., half-height device, such as the Apple/CD 300 Plus CD-ROM drive
- Supports one additional 3.5-inch hard disk drive or 3.5-inch removable-media device

Displays
- All Apple displays
- Third-party displays including VGA and SVGA monitors

Video support
- 8100/80 and 8100/110: 2MB of VRAM, expandable to 4MB
- DRAM display support for optional second display

Interfaces
- Three internal NuBus expansion slots; the 8100/110 also supports higher-performance burst mode between NuBus cards
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other device
- AUI-15 Ethernet connector
- High-density display port supporting Apple AudioVision monitors directly and other displays via the optional Power Macintosh Display Adapter
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- Dual-channel asynchronous SCSI interface: external channel supports up to six SCSI devices; internal channel supports a hard disk array
- 16-bit stereo sound input and output ports
- DB-15 video port for display

Networking
- Built-in Ethernet
- Two serial ports for LocalTalk, external modem, or other devices

Keyboard and mouse
- Supports ADB keyboards with numeric keypads
- Includes ADB Mouse II

Clock/calendar
- Custom integrated circuit with long-life lithium battery

Disability access
- Easy Access and visible beep included with system software. These built-in solutions and third-party options provide alternative input and output devices for people with disabilities.

Electrical requirements
- Line voltage: 100 to 240 volts AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 200 W maximum, not including display

ADB power requirements
- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard model used)

Size and weight
- Height: 14.25 in. (362 mm)
- Width: 7.75 in. (196 mm)
- Depth: 16 in. (406 mm)
- Weight: 24 lb. (10.9 kg) (varies based on internal devices installed)

Operating environment
- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

<table>
<thead>
<tr>
<th>Color depth support</th>
<th>8100/80</th>
<th>8100/110</th>
<th>8100/80</th>
<th>8100/80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>8100/80</td>
<td>8100/110</td>
<td>8100/110</td>
<td>8100/80</td>
</tr>
<tr>
<td>Display</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>640 by 480</td>
<td>32,768 colors</td>
<td>16.7 million colors</td>
<td>16.7 million colors</td>
<td>16.7 million colors</td>
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<tr>
<td>832 by 624</td>
<td>256 colors</td>
<td>16.7 million colors</td>
<td>16.7 million colors</td>
<td>16.7 million colors</td>
</tr>
<tr>
<td>1,024 by 768</td>
<td>not supported</td>
<td>32,768 colors</td>
<td>16.7 million colors</td>
<td>16.7 million colors</td>
</tr>
<tr>
<td>1,152 by 870</td>
<td>not supported</td>
<td>32,768 colors</td>
<td>16.7 million colors</td>
<td>16.7 million colors</td>
</tr>
</tbody>
</table>

With 2MB VRAM upgrade

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