







APPLE CONSUMER DESKTOP LINEUP (Updated 10/19/04)

Compiled by Charles Gaba systemsshootouts.org				
	eMac \$799 / \$999	17" iMac G5 \$1,299	17" iMac G5 (DVD-RW) \$1,499	20" iMac G5 \$1,899
Design/Ergonomics:				
Design/Styling:	All-in-One design		Adjustable; all-in-one ultraflat design	
Weight/Mobility:	50 lbs. Total		19 lbs. Total	26 lbs. Total
Component Access:	Quick access to WI-FI & RAM card slots		Quick access to all components (3 screws)	
Desk Space Used:	270 sq. in.	appx. 115 sq. inches total		144 sq. inches total
Noise Volume:	Ultraquiet fan(s)			
Energy Use:	170 watts (\$30/yr)	180 Watts maximum total; appx. \$35 / year		
Hardware: Processor/RAM				
Processor:	1.25 GHz PowerPC G4	1.6 GHz PowerPC G5	1.8 GHz PowerPC G5	
L1/L2 Cache:	64k Level 1 cache; 256k on-chip Level 2 cache			
L3 Cache/Other:	--			
Memory Type:	DDR-SDRAM PC2700	DDR-SDRAM PC3200 (SO-DIMM)		
Front Side Bus:	167 MHz	533 MHz bus	600 MHz bus	
RAM Included:	256 MB (1 card)			
Maximum RAM:	1.0 GB (2 slots)	2.0 GB (2 slots)		
Hardware: Storage				
Hard Drive Size:	40 GB / 80 GB	80 GB		160 GB
Hard Drive Type	Ultra ATA 100	Serial ATA		
Hard Drive Speed:	5400 rpm	7200 RPM		
CD-RW Drive:	32x10x32x / 24x10x32x	24x16x24x CD-RW (slot)	16x8x24x CD-RW (slot-load)	
DVD Drive:	12x DVD-Rom / 8x4x10x DVD±RW	8x DVD-ROM (slot-load)	4x2x8x DVD-RW (slot-load)	
Hardware: Expansion/Peripherals				
PCI/AGP Slots:	0 available; 1 total (video card)			
Internal Bays:	1 WiFi slot available; 0 hard drive bays available (1 total)			
External Bays:	0 available; 1 total (optical drive)			
Mouse Included:	Ambidextrous USB optical mouse (<i>3rd-party multi-button/scrollwheel mice available</i>)			
Keyboard Included:	Pro Keyboard w/volume control, mute & optical drive eject buttons + 2 USB ports			
USB Ports:	5 total: 3 USB 2.0 ports on base + 2 USB 1.1 ports on keyboard; 3 available			
Firewire Ports:	2 on-board ports (400 Mbps transfer speed)			
Hardware: Graphics/Video/Audio				
Video Card:	ATI Radeon 9200	GeForce FX 5200 Ultra		
Video RAM:	32 MB dedicated DDR	64 MB ded. DDR-SDRAM		
VGA Out:	Mirroring <i>via optional adapter</i>			
S-Video / RCA Out:	<i>optional adapter</i>			
DVI/ADC Out:	--			
Display Included:	Integrated 16" viewable flat CRT	Integrated 17" widescreen digital LCD		Integrated 20" widescreen digital LCD
Native Disp. Res.:	1280x960	1440x900		1680x1050
Dual-Display Supp:	<i>Mirroring only via optional adapter</i>			
Viewable Angle:	<i>n/a (CRT)</i>	120 deg. horiz.; 90 deg. vert.		170 deg. h.; 170 deg. V
Bright/Contrast:	<i>n/a (CRT)</i>	200cd/m; 350:1 contrast		230cd/m; 350:1 contrast
Audio In:	Built-in microphone; audio-in jack			
Audio Out:	Headphone/audio-out jack	Headphone jack, Optical digital audio out (5.1)		
Speakers Inc.:	Integrated stereo speakers, internal digital amplifier			

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	eMac	17" iMac G5	17" iMac G5 (DVD-RW)	20" iMac G5
Hardware: Networking				
10/100 Ethernet:	10/100 Base-T Ethernet network card (integrated)			
Gigabit Ethernet:	--			
56k Int. Modem:	56k v.92 on-board internal modem w/built-in fax software & phone cord			
Wireless Networking:	Internal 802.11g (Airport Extreme) card slot; Integrated antennae; Built-in 802.11g Base Station (<i>requires optional Airport Extreme card</i>)			
Bluetooth?	<i>optional internal or 3rd-party Bluetooth card</i>			
Software: Operating Systems/Compatibility				
Included OS:	Mac OS X 10.3 Panther; Mac OS 9.2 Classic; BSD Unix; X11 Window System			
Windows OS Support:	DOS / Win '95 / Win '98 / Win ME / Win 2000 / Windows XP <i>via optional Virtual PC</i>			
Mac OS Support:	Mac OS 8,9 (via Classic); Mac OS X (Native)			
Linux/Unix OS Support:	Linux PPC, Yellow Dog, Mandrake, etc. (native)			
Save-to-PDF:	System-wide			
Zero-Config. Network:	Rendezvous (system-wide)			
Handwriting Recog.:	Inkwell (system-wide)			
Voice/Speech Recog.:	Built-in (system-wide); Speakable Items, etc.			
Web Server:	Built-in Apache w/Perl, Python & PHP included			
Developer Tools:	Xcode, Script Editor, etc.			
File Comp. / Encrypt.:	System-wide Zip compression; FileVault encryption			
Software: Applications/Utilities/Etc. (included titles listed; other titles available)				
Word Processor:	AppleWorks 6.2 (MSFT Word Compatible)			
Spreadsheet:	AppleWorks 6.2 (MSFT Excel compatible)			
Presentations:	AppleWorks 6.2			
Database:	AppleWorks 6.2			
Drawing/Painting:	AppleWorks 6.2			
Projects/Planning:	--			
Web Browser:	Safari 1.2; Internet Explorer 5.2; Sherlock 3.0			
E-mail /Address Book:	Mac OS X Mail 1.3 /Address Book			
Calendar Program:	iCal 1.5			
Data Synchronization:	iSync 1.4			
Data Transfer:	System Migration Assistant			
Chat/AV Conferencing:	iChat AV 2.1			
Media Players:	QuickTime 6.5; DVD Player (<i>WMP 9 & RealOne Player 9 also avail. as free downloads</i>)			
Project/Planning:	--			
Financial:	Quicken 2004 Deluxe			
Reference:	World Book Encyclopedia OS X Edition			
Digital Photo:	iPhoto 4.0; Image Capture			
Digital Video Edit:	iMovie 4.0			
Music/CD Burn:	Std.	iTunes 4.6; Disk Burner		
DVD Burn/Author:	Disc Burner, iDVD 4.0			
Games Included:	4/Deimos	Chess; Nanosaur 2, Marble Blast Gold		
Other Software:	Preview 2.1 (PDFs etc.); EarthLink TotalAccess 2004, AOL, Zinio Reader; Apple Hardware Test CD			
Services/Warranty/Durability/etc.				
ISP/Services:	1 Month Free Earthlink; 60 Day .Mac Trial Account			
Viruses/Security:	no known viruses effect OS X as of today; Built-in Firewall; not vulnerable to IIS DDoS attacks			
Warranty:	1 yr. Ltd. Warranty; 90 days phone tech support included; 3 yr. <i>AppleCare Protection available for \$169</i>			
Price	\$799 / \$999	\$1,299	\$1,499	\$1,899
(free ground shipping via Apple's online store; sales tax not included)				

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Power Mac G5 w/17" Studio Display

\$1,499 + \$1,299

\$1,999 + \$699

\$2,499 + \$699

\$2,999 + \$699

Design/Ergonomics:

Design/Styling:	Aluminum Casing w/mesh front & rear		
Weight/Mobility:	51 lbs. Total; integ. Handles	59 lbs. Total; integrated handles	
Component Access:	Side of case pulls off for easy access to all components		
Desk Space Used:	309 sq. in. total (PowerMac G5 + display)		
Noise Volume:	computer-controlled cooling system (ultraquiet)		
Energy Use:	appx. 450 watts (appx. \$75/year)		

Hardware: Processor/RAM

Processor:	Single 1.8 GHz G5	Dual 1.8 GHz G5	Dual 2.0 GHz G5	Dual 2.5 GHz G5
L2 Cache:	512k Level 2 cache per processor			
L3 Cache/Other:	64-bit data paths & registers			
Memory Type:	DDR PC3200			
Front Side Bus:	600 MHz	900 MHz per proc.	1.0 GHz per proc.	1.25 GHz per proc.
RAM Included:	256 MB (2 DIMM)		512 MB (2 DIMM)	
Maximum RAM:	4.0 GB (4 slots)		8.0 GB (8 slots)	

Hardware: Storage

Hard Drive Size:	80 GB	160 GB
Hard Drive Type:	Serial-ATA	
Hard Drive Speed:	7200 RPM	
CD Drive:	24x10x32x CD-RW	
DVD Drive:	8x4x10x DVD-RW	

Hardware: Expansion/Peripherals

PCI/AGP Slots:	3 PCI + 1 8x AGP	3 PCI-X + 1 8x AGP
Internal Bays:	2 Serial-ATA bays (1 available); up to 500 GB capacity	
External Bays:	1 optical bay (filled)	
Mouse Included:	Ambidextrous USB optical mouse (3rd-party multi-button/scrollwheel mice available)	
Keyboard Included:	Pro Keyboard w/volume control, mute & optical drive eject buttons + 2 USB ports	
USB Ports:	7 total USB ports (3 USB 2.0 ports + 4 USB 1.1 ports) (2 USB 2.0 on back, 1 on front; 2 USB 1.1 on kb, 2 on display)	
Firewire Ports:	3 ports total: 2 @ 400 Mbps; 1 @ 800 Mbps (1 on CPU front)	

Hardware: Graphics/Video/Audio

Video Card:	NVIDIA GeForce FX 5200 Ultra	Radeon 9600 XT
Video RAM:	64 MB dedicated DDR	128 MB dedicated DDR
VGA Out:	Yes (DVI-VGA adapter included)*	
S-Video / RCA Out:	via optional PCI card	
DVI/ADC Out:	Yes (DVI & ADC)	
Display Included:	20" viewable digital LCD (Apple Studio Display)* <i>*Note: All PowerMac models also work with any 3rd-party VGA, DVI or ACD display.</i>	
Disp. Res. Nat/Max:	1680x1050 / 1.7 Mpx (native); 1920x1200 2.3 Mpx (max. possible via video card)	
Dual-Display Supp:	Yes (1 ADC + 1 DVI or VGA)	
Viewable Angle:	170 vertical; 170 horizontal	
Bright/Contrast:	250 cd/m; 400:1 contrast ratio	
Audio In:	Analog audio-in;; Digital Optical Toslink audio-in	
Audio Out:	Analog audio-out; digital optical audio-out; front hp jack	
Speakers Inc.:	integrated mono speaker included; works with any external speaker system	

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Power Mac G5 w/20" Apple Cinema Display

Hardware: Networking

10/100 Ethernet:	10/100 Base-T Ethernet network card (integrated)
Gigabit Ethernet:	Integrated Gigabit Ethernet
56k Int. Modem:	56k v.92 on-board internal modem w/built-in fax software & phone cord
Wireless Networking:	Internal 802.11g (Airport Extreme) card slot; Integrated antennae; Built-in 802.11g Base Station (<i>requires optional Airport Extreme card</i>)
Bluetooth?	<i>optional internal or 3rd-party Bluetooth card</i>

Software: Operating Systems/Compatibility

Included OS:	Mac OS X 10.3 Panther; Mac OS 9.2 Classic; BSD Unix; X11 Window System
Windows OS Support:	DOS / Win '95 / Win '98 / Win ME / Win 2000 / Windows XP <i>via optional Virtual PC 7.0</i>
Mac OS Support:	Mac OS 8,9 (via Classic); Mac OS X (Native)
Linux/Unix OS Support:	Linux PPC, Yellow Dog, Mandrake, etc. (native)
Save-to-PDF:	System-wide
Zero-Config. Network:	Rendezvous (system-wide)
Handwriting Recog.:	Inkwell (system-wide)
Voice/Speech Recog.:	Built-in (system-wide); Speakable Items, etc.
Web Server:	Built-in Apache w/Perl, Python & PHP included
Developer Tools:	Xcode, Script Editor, etc.
File Comp. / Encrypt.:	System-wide Zip compression; FileVault encryption

Software: Applications/Utilities/Etc. (included titles listed; other titles available)

Word Processor:	<i>(OpenOffice; free download; Word compatible)</i>
Spreadsheet:	<i>(OpenOffice; free download; Excel compatible)</i>
Presentations:	<i>(OpenOffice; free download; PowerPoint compatible)</i>
Database:	--
Drawing/Painting:	Art Director's Toolkit; GraphicConverter
Projects/Planning:	OmniOutliner; OmniGraffle
Web Browser:	Safari 1.2; Internet Explorer 5.2; Sherlock 3.0
E-mail/Address Book:	Mac OS X Mail 1.3 /Address Book
Calendar Program:	iCal 1.5
Data Synchronization:	iSync 1.4
Data Transfer:	System Migration Assistant
Chat/AV Conferencing:	iChat AV 2.1
Media Players:	QuickTime 6.5; DVD Player (<i>WMP 9 & RealOne Player 9 also avail. as free downloads</i>)
Project/Planning:	--
Financial:	QuickBooks Pro 6 for OS X
Reference:	--
Digital Photo:	iPhoto 4.0; GraphicConverter 5.2; Image Capture
Digital Video Edit:	iMovie 4.0
Music/CD Burn:	iTunes 4.5; Disc Burner; Sound Studio, GarageBand 1.1
DVD Burn/Author:	Disc Burner, iDVD 4.0
Games Included:	Chess; Tony Hawk's Pro Skater 4; Deimos Rising
Other Software:	Preview 2.1 (PDFs etc.); EarthLink TotalAccess 2004, AOL, Zinio Reader; Apple Hardware Test CD

Services/Warranty/Durability/etc.

ISP/Services:	1 Month Free Earthlink; 60 Day .Mac Trial Account		
Viruses/Security:	no known viruses effect OS X as of today; Built-in Firewall; not vulnerable to IIS DDoS attacks		
Warranty:	1 yr. Ltd. Warranty; 90 days phone tech support included; 3 yr. <i>AppleCare Protection available for \$249</i>		
Price:	\$1,499 + \$1,299	\$1,999 + \$1,299	\$2,499 + \$1,299
	(free ground shipping via Apple's online store; sales tax not included)		