

BACK-to-BUSINESS

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TAKE 90 days same-as-cash!
See store for details

Get down to Micro Center and get down to business!

POWER·SPEC

SEE PAGES 3-6

HOT NEW MODELS FOR BUSINESS AT HOME OR OFFICE!



MULTIMEDIA see pages 28-29

PC SOFTWARE see pages 30-35

SUGGESTED RETAIL VALUE—\$395!



GREAT DEAL! with new software

Software Toolworks Multimedia Encyclopedia

A fun-to-use collection of facts, photos, video and sound on CD-ROM!
This multimedia Academic American Encyclopedia includes all 21 volumes on CD! It combines the highest caliber content of any electronic encyclopedia with truly extraordinary multimedia capabilities!

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WIREHEAD CD for Windows #877696 **\$17.95**

Way Cool too! CD for Windows #87704 **\$9.95**

ACCESSORIES see pages 55-68



see pages 56 & 57 for more media values
NOW ONLY \$44.95 #852483

Fuji 3.5" DS/HD IBM formatted Diskettes, 100 pack

AFTER '25 MAIL-IN REBATE

Less than 45¢ per disk!

MACINTOSH NOW AVAILABLE AT MICRO CENTER!!!

Apple Performa® 475 4/160

High performance color computing comes home to you, with faster processing, ample storage and a wealth of pre-installed software.

See pages 44 & 45 for the complete line of Macintosh products!
NOW ONLY \$1299 #864942



PC HARDWARE see pages 9-30

Combo Ether 16 LAN Card

LINKSYS A BEST BUY! \$39.99 #812216

Zoom 28.8 Internal Fax/Modem

DRAMATIC PRICE DECREASE
NOW ONLY \$159.95 #751289

Prometheus ProModem 144e **NEW!**

Now you can get 14,400bps send/receive fax capability along with this 14,400bps data transfer mode in an external form factor for Macintosh.

ProModem Voice Upgrade #879335 **\$29.99**

Prometheus \$99 #879320

GREAT PRICE \$99

SPECIAL OFFER!

HP LaserJet 4L Printer

Revolutionary technology for exceptional output... and with rebate what a price!

HP's Resolution Enhancement technology, available previously only on high-end printers, smooths jaggies and combined with microfine toner produces the absolute sharpest 300dpi printing available. Intelligent on/off saves electricity by automatically turning printer on and off as needed.

\$50 mail-in rebate offer

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HP HEWLETT PACKARD

Plus BOOKS at up to 30% off! see pages 36-37



540MB Hard Drive

One-half gigabyte, fast access, highly reliable and quiet!

Solid manufacturing to exacting specs is the hallmark of this famous maker disk drive! This IDE drive is designed to meet or surpass industry standards, with a highly efficient write-caching scheme, multiple sector read/write support, and compliance with the EPA Energy Star program for low energy savings. It is rated at 12ms access time, provides up to 5.0MB/sec data transfer, and has a rating of 300,000 hours MTBF.

NOW ONLY \$279 #878652
Subject to manufacturer's availability

Quantities are limited. Because of the high demand for many items in this catalog, substitutions may become necessary. Some offers are good only while supplies last. Due to limited quantities. We regret that we cannot be liable for pictorial or typographical errors. Micro Center and THE COMPUTER DEPARTMENT STORE are registered trademarks of Micro Electronics, Inc.

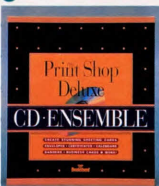
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EDUCATION & ENTERTAINMENT



Print Shop Deluxe CD Ensemble for Windows

The Print Shop Deluxe CD Ensemble includes five great products on one CD:

- Print Shop Deluxe
- Print Shop Deluxe Companion
- Print Shop Deluxe Business Graphics
- Print Shop Deluxe Sampler Graphics
- Print Shop Deluxe Amazing Animals Graphics Folio

New features in version 2.0 include 650 new graphics, the ability to import PhotoCD images, new label projects, new name and address list merge for Print Shop projects. Included is everything you will need to design eye-catching posters, signs and banners, greeting cards, calendars, letterheads, certificates, business cards and more!

10th Anniversary!

NOW ONLY

\$74.95



Broderbund

Lords of the Realm

This medieval masterpiece of castle-building, sieging and feudal governing takes place in 13th century England. Take part in splendid land battles with medieval armies. Beautiful 256 color animation with authentic period music enthralls the active role play.



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Impressions

Arthur's Birthday MPC CD for Windows

You're invited to Arthur's party. It's an interactive squeaker that will delight your child. Just click on any image and watch the fun begin!



\$37.95

Living Books

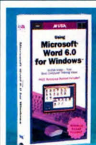
Arthur's 8-Day CD for Mac #83209 \$37.95

BOOKS



Essential Word for Windows Tools

List \$24.95
SAVE 30%!
\$20.95
COMPUTE!



Using Word 6.0 for Windows Video

The ideal alternative to complicated manuals. Packed with simple step-by-step instructions and a handy reference guide.



List \$24.95
SAVE 30%!
\$17.45



Welcome to... INTERNET

Journey into the Internet, the thriving electronic community that spans the world from your own computer. You'll learn how the network is organized, then discover where you are and where you want to go.



List \$19.95
SAVE 30%!
\$13.95



dBASE for Windows Made Easy

The guided tour to the usefulness and power of database applications.



List \$24.95
SAVE 30%!
\$17.45

ACCESSORIES



Universal Notebook Case

Offers a large document/accessory pocket, dual-pull, self-healing zippers and an extra layer of thick foam padding.

NOW ONLY **\$67.95**

Netpac Case #538827 \$35.99



3M DC2120 2-Pk. Unformatted Data Cartridges

Get twice the amount of data storage with this twin pack. Each tape cartridge holds as much as 250MB of data reliably, boasts patented features providing precision tracking, static elimination, protection from heat and dust and a lifetime product warranty from the number one manufacturer of recording tape.

3M DC2120 XIMAT Formatted 2-Pk. Data Cartridges

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3M NOW ONLY \$29.95

- 3M DC2120 Unformatted Data Cartridge #357020 \$15.95
- 3M DC2120 XIMAT Formatted Data Cartridge #483305 \$17.95



Bush Computer Workstation

With Black Granite Finish

Convenient, compact and well-balanced features mark this attractive, granite-finish computer workstation. Melamine scratch resistant surface, hooded, dual wheel casters, and smooth pull-out slides are evidence of its durable construction.

NOW ONLY **\$99.95**

Mobile Computer Cart With Oak Finish #819093 \$99.95



HP FAX-900

Plain paper fax with all the important features!

Features crisp inkjet printing, automatic redial, fax broadcasting, delayed dialing, fast transmission speed, a generous paper tray, and 12 page memory reception when out of ink or paper.

After \$75 MSRP, Mail-in Rebate!
\$67.45



HP FAX-950

The advanced fax machine that's just plain better!

Get the best features in a fax machine using plain paper—it's easier to load, doesn't curl or fade, and is recyclable. 3000pi, 28-page memory, 100 number speed dialing, delayed dialing, memory transmission and more!

NOW ONLY **\$92.95**

HEWLETT PACKARD



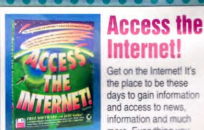
Maxell 3.5" HD 20-Pack Diskettes

These high density floppy disks are formatted for 1.44MB IBM and includes a clear, hard plastic storage case. You'll receive 20 black Maxell HD diskettes with a full lifetime warranty against defects. The case provides solid protection with firm foaming that isn't easily knocked over.

Less than **60¢** each!

NOW ONLY **\$11.99**

maxell



Access the Internet!

Get on the Internet! It's the place to be these days to gain information and access to news, information and much more. Everything you need to connect is included: direct connection, Windows interface and online application tools.



List \$24.95
SAVE 30%!
\$13.95



Newsletters from the Desktop

When you need to hone your design skills, draw your reader into your articles with pictures and sidebars, or spice up your format with colorful illustrations, this is the most useful reference tool available.

List \$24.95
SAVE 30%!
\$17.45

PRELIS

It's easy to make a
great new computer...
It only takes 4 years and a
worldwide team of experts.



Monitor Pictured sold separately—See page 6

Introducing the PowerSpec•PC— *Technically, the best the world has to offer.*

Four years in concept through development, the PowerSpec•PC combines the smarts of the premier designers from high-caliber PC engineering labs around the globe. Sure, parts of other major brands have come out of these innovative production houses, but never has this particular combination of high quality components shared the same burn-in rack.

Reliability, compatibility and price-performance are much more than the buzzwords for today's PC buyer. You've told us over and over how critical they are to your informed PC purchase. They are pressing demands that have been (but don't have to be) tradeoffs.

Imagine. You are responsible for launching an emerging PC brand. You have but one stipulation. You can only use suppliers that can fully meet those pressing demands, yet can deliver them at costs equal to or less than the hundreds of lower quality components currently permeating the marketplace. You cannot compromise either quality or the industry-leading price for the sake of the other.

You say, finding the winners from among the "also rans" could take years! Four, to be exact. Dozens tried, dozens failed.

The result? A system that lives the concept of *more for less*. Now, you can benefit directly from

the work of industry specialists doing what they do best.

And these systems are loaded—top-end processors, full-featured components, rock-solid cases, hard drives spec'd for performance and capacity, well-engineered input devices, software and video multimedia options that will please even the true audio-videophile. So, you get both a relentless commitment to your needs *and* more than you pay for!

Now that's four years well spent to make sure your dollars are all well spent.

But, there's more to this story...



When you put

So, you've dispensed with the notion of high-quality, but high-overhead. You've outgrown the low cost with no frills. You're ready to accept a new way—high quality with low overhead. It can be done, it has been done and it's called the PowerSpec-PC.

Anyone else could have pulled this off, but hasn't. Simply start with experience—10 years of experience in selling hundreds of thousands of systems. Next, take on an exhaustive primary research effort through detailed customer surveys of specifically what PC buyers want, and make that research ongoing. Of course, make sure all the technology is current and at the top end of what's appropriate. Next, tap into engineering resources worldwide, finding suppliers committed to quality and the pricing required to do volume business. Finally, deliver the technology to the customer through a high-service, low overhead channel like Micro Center. Oh, and do it more than once.

The examples of this process are many:

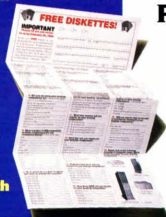
Example 1. The mainboard manufacturer meets the strict quality-control requirements that only ISO-9001 certification demands. Each board is pulled off the line at 3 critical stages and thoroughly tested 3 separate times. Yes, we pay more, but only a little.

Example 2. The power supply manufacturer is the largest in the world and measures its failures in parts per million, yet is extremely cost-effective.

Example 3. The keyboard manufacturer supplies 7 of the 10 top system manufacturers in the world and knows volume-pricing.

Example 4. The multimedia component provider is the #3 sound card manufacturer in the world. And a crowded world it is in this product category.

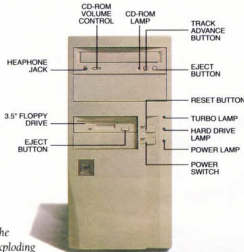
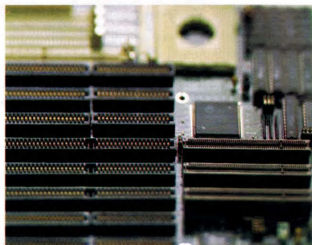
Some of the best have bought into the concept of more for less. How about you?



POWER-SPEC™

We've built a case for strength and good looks.

- Exclusive cases designed and manufactured by a leading case specialist
- Distinctive small footprint mini-towers and soon to appear full size towers
- Plenty of room for expansion



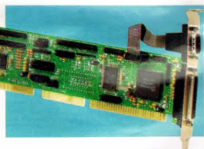
The exploding popularity of the mini-tower case is for good reason—expandability in a small footprint.

Main boards from world class suppliers providing critical reliability when it counts.

- World renowned AMI BIOS
- ISO-9001 quality control standards
- VESA Local Bus
- Three VESA slots, all master or slave, can also act as ISA slots
- Slots buffered for stable operation beyond 33MHz
- Eight 16-bit ISA slots
- Clock generator replaces oscillator crystals to make processor upgrades simpler
- Intel, Cyrix and AMD compatible

The pure performance of local bus and IDE

- VESA local bus I/O for 32-bit IDE transfers at local bus speeds
- Dual IDE ports utilize upcoming enhanced multi-channel IDE specs allowing larger drive sizes
- Incorporates cutting edge technology for best performance
- Two serial, one parallel, one game port
- Designed by a leading Silicon Valley firm (that writes drivers for many other IDE card manufacturers)



Power suppliers to the world's best brands

Power plants manufactured by the industry's dominant power supply company

- Used extensively in major PC brands including IBM, Apple, HP and more.
- ISO-9000 quality certification
- Conservatively rated at 200W
- UL and FCC approved
- A success/failure production process measured in parts per million!



Models come fully configured, yet allow for more growth as your needs intensify. Ample slots, bays, SIMM connectors and power capacity are here for expansion

Microprocessors not less than 50MHz for graphics-oriented interfaces and data intensive applications.

on the specs, you'll see!



Micro Center— Our values make for your values

- A huge selection of quality products always at competitive prices
- Specialized, knowledgeable associates dedicated to customer service
- Technical Support department, experienced Service and training
- Over 14 years of selling and supporting the industry's best brands

Technically speaking, most comparisons aren't this easy

Component	POWER·SPEC [®]	Packard Bell*	Typical Clones	Benefit
Slots	Eight 16 bit ISA, 3 VESA Local Bus	Four 16-bit ISA	Typically 6-7 ISA slots, 1-2 VESA Local Bus slots	Greater speed, more flexibility, more expandability
Bays	Five, 3-3.5", 2-5.25"	Four, 2-3.5", 2-5.25"	Typically five, 3-3.5", 2-5.25"	More expandability
Memory Expansion	To 64MB	to 36MB	Typically 32MB	More expandability
Power Supply	True 200Watt, UL and FCC approved	150Watt UL and FCC approved	Mixed specs and reliability Not UL or FCC approved!	Safety, for yourself and your computer
Video	Accelerated, Local Bus card, conforms to VESA standard	Accelerated local bus on mainboard	Typically Local Bus or accelerated	Quicker response time, better productivity
I/O	32-bit VESA Local Bus	16-bit on mainboard	16-bit ISA	Data access speed, work throughput
Keyboard	1st quality, with all safety and regulatory approvals	1st quality, with all safety and regulatory approvals	Inexpensive keyboard from 2nd or 3rd tier company. May or may not have approvals.	Durability, compatibility and safety
FCC Class B	Yes	Yes	Usually not. Leading clone case makers confirm that over 70% of the cases and power supplies shipped to the US are not UL approved and will not meet FCC requirements.	Equipment that is causing interference is the legal responsibility of the user. Also, better quality construction and components is required to meet FCC Class B certification.

*Information from company marketing literature. Force 1777 plus used for comparison

The best keyboards are graded on a curve

- World's leading keyboard manufacturer
- Supplier to 7 of the top 10 PC brands
- Industry-leading key switch mechanism
- Rated at 30 million cycles
- Innovative curved back plate for superior ergonomics
- Solid tactile feel for firm response



Fortunately, some video choices are very clear.

- One of the largest video card manufacturers in the US
- Highly compatible chip sets and drivers
- Accelerated VESA local bus
- High frequency refresh rate reduces eye strain
- Super VGA 256 colors standard
- Truecolor 24-bit at 640x480 resolution

Monitors to suit every individual need

As monitor size and resolution are very personal decisions, the monitor choice to meet your individual needs is always sold in addition to the system. See page 9.

Here, More for Less means the Most.

Given to speed.
Mindful of growth.
Attentive to needs.



Technically, the best the world has to offer!

PowerSpec•PC configurations

With the power you spec'd for most any need.



A good system choice for the student when you want both to perform

Value Series 486DX2 50MHz 4/420

- 50MHz 486DX2 processor
- MiniTower with 5 drive bays and 8 expansion slots
- 4MB RAM, expandable to 64MB
- 420MB internal hard drive
- 1MB Video RAM with VESA local Bus Video
- 1.44MB 3.5" floppy drive
- 3-button mouse and enhanced 101 keyboard included
- Pre-loaded with MS-DOS and MS Windows
- One year warranty (three years optional)

Monitor sold separately

Value Series Entry Level 486DX2 50MHZ 4/210
See store for configuration. Monitor sold separately. ***829**



The power of a big machine for the power of a small office

Value Series 486DX2 66MHz 4/420

- 66MHz 486DX2 processor
- MiniTower with 5 drive bays and 8 expansion slots
- 4MB RAM, expandable to 64MB
- 420MB internal hard drive, 128K cache(256K maximum)
- 1MB Video RAM with VESA Local Bus Video
- 1.44MB 3.5" floppy drive
- 3-button mouse and enhanced 101 keyboard included
- Pre-loaded with MS-DOS and MS Windows
- One year warranty (three years optional)

Monitor sold separately



Experience multimedia at home from the multimedia experts at work.

Value Series 486DX2 50MHz 4/420

- 50MHz 486DX2 processor
- MiniTower with 5 drive bays and 8 expansion slots
- 4MB RAM, expandable to 64MB
- 420MB internal hard drive, 1.44MB 3.5" floppy drive
- 1MB Video RAM with VESA Local Bus Video
- 16-bit sound support and speaker included
- Double-speed CD-ROM drive built-in
- 3-button mouse and enhanced 101 keyboard included
- Pre-loaded with MS-DOS and MS Windows
- One year warranty(three years optional)

Monitor sold separately



A business multimedia system to work hard and play harder

Value Series 486DX2 66MHz 4/420

- 66MHz 486DX2 processor
- MiniTower with 5 drive bays and 8 expansion slots
- 4MB RAM, expandable to 64MB
- 420MB internal hard drive, 128K cache(256K maximum)
- 1MB Video RAM with VESA Local Bus Video
- 16-bit sound support and speaker included
- Double-speed CD-ROM drive built-in
- 3-button mouse and enhanced 101 keyboard included
- Pre-loaded with MS-DOS and MS Windows
- One year warranty(three years optional)

Monitor sold separately

POWER•SPEC | PC™

MONITORS TO SUPPORT YOUR MOST CRITICAL MISSION

MONITORS—quality monitors and affordable prices



**Magnavox 78M749
Monochrome**

#614107
\$119

• VGA Compatible with all resolutions up to 640 x 480

• Horizontal frequencies of 31.5KHz

• Vertical frequencies of 60-70Hz

• 20MHz bandwidth

• Includes removable tilt/swivel stand

• Power supply AC 120V

• Controls—Front: Power, brightness, contrast
Rear: Horizontal phase, vertical size, vertical center

**14" .39 dot pitch
SVGA Color
Monitor**



#614289
\$189

• Compatible with VGA and SVGA resolutions up to 1024 x 768

• Horizontal frequencies of 31.5/35.2/35.5/40KHz

• Vertical frequencies of 50-90Hz

• 45MHz bandwidth

• Includes removable tilt/swivel stand

• Power supply AC 90-260V

• Controls—Front: Power, brightness, contrast
Rear: Horizontal phase, vertical size, vertical center

**14" .28 dot pitch
Non-Interlaced
SVGA Monitor**



#614354
\$279

• Compatible with VGA and SVGA resolutions up to 1024 x 768

• Horizontal frequencies of 31.5/35.2/35.5/38/48KHz

• Vertical frequencies of 50-90Hz

• 65MHz bandwidth

• Includes removable tilt/swivel stand

• Power supply AC 90-260V

• Controls—Front: Power, brightness, contrast, horizontal and vertical size and centering

**17" .26 dot pitch
Non-Interlaced
SVGA Monitor**



Digital Controls!

#614412
\$699

• Compatible with VGA and SVGA resolutions up to 1024 x 768, non-interlaced

• Horizontal frequencies of 30-66KHz

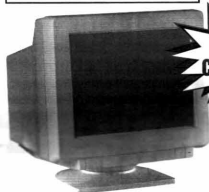
• Vertical frequencies of 50-90Hz

• 110MHz bandwidth

• Includes removable tilt/swivel stand

• Power supply AC 90-260V

• Controls—Front: Power, brightness, contrast, horizontal and vertical size and centering
• Microprocessor controlled for easy mode changes



Digital Controls!

This 15" flat screen monitor features .28 dot pitch and microprocessor controls for easy adjustment.

Step up to the productivity and pleasure of a quality, flicker-free display with the room you need for high-resolution graphic interfaces, such as Windows or OS/2.

#614388

\$379

• Compatible with VGA and SVGA resolutions up to 1024 x 768, non-interlaced, at 72Hz

• Horizontal frequencies of 30-56KHz

• Vertical frequencies of 50-90Hz

• 80MHz bandwidth

• Includes removable tilt/swivel stand

• Power supply AC 90-260V

• Controls—Front: Power, brightness, contrast, horizontal and vertical size and centering

• Microprocessor controlled for easy mode changes

Now Take 90 Days
With Your Micro Center Charge Card
Same As Cash!

Take 90 Days Same-As-Cash* with your Micro Center personal credit card

The Micro Center Credit Card
YOUR Personal BUSINESS CARD

- Good at all Micro Center stores on over 18,000 competitively priced products, the full range of computer repair services, even training classes!
- No annual fee, flexible payment options, extended financing and a 25-day grace period on all new purchases!*
- No down payment, no penalty for early payoff, competitive rates and minimum monthly payments that are lower than most revolving credit accounts!

For Example:

A \$2000 computer system is just \$65 per month!

A \$950 laser printer is just \$30 per month!

A \$499 software package is just \$15 per month!

- An easy way to keep separate your computer-related purchases, to have a consolidated monthly statement of transactions, and to free up your other general use credit cards!

It's easy...

Fill out this short form application available in the store and return it to the Finance Department or pick up a take home application and mail it in!

*Requires \$300 minimum purchase. See store for more information.

For more information and credit card terms, see store.

*There are no finance charges on new purchases if you pay off the balance in full by the statement due date. Otherwise, finance charges will accrue at an A.P.R. of 19.9%.



Open your Micro Center Personal Credit Account now.

It has more usable features than any other card for your computer!



NEW PRODUCTS

Always More, and More for Less!



IBM/MS-DOS Hardware

ThinkPad 355CS
170MB/DS

IBM #R48009
\$2599

IBM® Aptiva 350
A86D X2/66
540MB/CDS

Model #2186-28P
Monitor sold separately.
Subject to Mfr's availability.
#R7625C
\$1699

NEC

NEC Versa S/33 210/DSTN
At just 4.2 lbs, the Versa S strikes the perfect balance between performance and portability!

HEWLETT-PACKARD

HP 200LX Palmtop PC
Super portability packed with a ton of features! Includes Pocket Quick! #R59975
\$529

Introductory Price... Only \$2449
#R49524

HEWLETT-PACKARD

HP FAX-900
The affordable full-featured plain paper fax!

After \$75 Mfr's Mail-in Rebate! Only \$674
#R71953

HP 200LX Connectivity Pak
#R48063 \$104.95

HP FAX-950
Loaded with the most advanced features including high-quality inkjet technology!

HEWLETT-PACKARD #R750796
\$929

14" 28 Non-Interlaced Monitor
A low price on high resolution!

#R78645
\$299

15" Non-Interlaced Digital Monitor
Plenty of beautiful screen real estate!

#R78660
\$399

Canon BJC-4000
720dpi BubbleJet Printer

Canon #R71590
\$499

20" Trinitron 1600 x1200 Resolution Monitor

GDM-20SE #R73078
\$2099

EPSON

Epson Stylus™ Color Inkjet Printer
Provides true 720dpi resolution! Gives letters crisp edges and eliminates smudges on delicate graphics. #R50396
\$599

Stylus 800 Plus 360dpi Printer
#R71580 \$259

ES-1200C 600dpi Scanner
#R78637 \$99

OL410e/PS 600dpi Class Printer
Versatile & Reliable!
OKIDATA #R58328
\$979

Stingray Accelerator Board VLB 1MB
The VESA Local Bus graphics accelerator for Windows, Windows NT and OS/2! #R60411 \$129.95

Disk•Star 810MB/IDE Internal Hard Drive

When you need expanded storage capacity for business applications, multimedia and networking, you need a Conner DiskStar 810MB drive. #R58662
\$549

Disk•Star 1080MB/IDE Internal HD
#R58654 \$699

PC Software

BORLAND

Paradox 5.0 for Windows
for Windows Competitive Upgrade
#R65053
\$339.99 \$199.99

Lotus

Lotus 1-2-3 v.5.0 for Windows
Competitive Upgrade
#R71459
\$99.99

Lotus 1-2-3 v.5.0 for Windows
#R71467 \$299.99

PrintMaster Gold for Windows
Get creative for LESS!
#R65105
\$29.99

Lotus SmartSuite Version 3.0 for Windows
#R61750
\$499.99

After Dark 3.0 for Windows
A new version of the World's #1 Screen Saver!
BERKELEY SYSTEMS #R52715
\$29.99

Macintosh

Apple® Macintosh Quadra™ 630 4/250
#R71053
\$1279

Apple® Macintosh Performa™ 475
#R64942
\$1299

Apple® Macintosh Performa™ 550 5/160 w/CD-ROM
#R71051
\$1599

Apple® Macintosh Performa™ 630 4/250
#R64926
\$1549

Incredible PRICE!
#R64926
\$1549

Apple® Macintosh Performa™ 630 8/250 w/CD-ROM
#R64924
\$1899

Global Village Data/Fax Modems
Subject to Mfr's Availability.

Teleport Mercury™ \$329
#R43417

PowerPort Mercury™ \$369
(500 Series) #R43375

Powerport Mercury™ \$369
#R55726

Teleport Bronze II™ \$99.99
#R43383

Teleport Gold™ \$249
#R43429

Powerport Gold™ \$329
#R43367

Microsoft MS Works 4.0 for Mac
Version Only \$99.99
#R58311

MS Works 4.0 CPU Bundle for Mac
#R62748 \$49.99

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TIPS & TRAPS

BY GLENN MCATEE

SHARING THE LOAD. To run Microsoft Excel for Windows 5.0 or Microsoft Word for Windows 6.0, you must load the SHARE program that comes with MS-DOS. If you try to run either program without SHARE, you will receive one of the following messages:

"You must exit Windows and load SHARE.EXE in order to run Microsoft Excel" or "Cannot open or save any more documents."

To correct this problem, you need to add the following line to the beginning of your AUTOEXEC.BAT file:

```
C:\DOS\SHARE.EXE /L:500 /F:5100
```

If your DOS directory has a different name, you should replace C:\DOS with the correct path name.

The SHARE command provides the file-locking protection required in an environment where multiple programs and functions are operating simultaneously. It is not automatically loaded during the standard DOS installation procedure. In those cases where it is loaded, it lacks the additional "/L:500 /F:5100" parameter. The "/L" parameter specifies the number of file locks and the "/F" parameter specifies the amount of file space. Without these parameters, SHARE can run out of resources in the middle of your work, preventing you from saving your most recent changes.

Both Excel and Word make use of object linking and embedding (OLE) operations. These operations require the range-locking capability of SHARE.EXE. Range locking allows an OLE application to lock an individual segment of a document that contains the material to be edited, so the programs operate faster and use less memory (since you're not working with the entire file at once).

You do not need to run SHARE with Windows for Workgroups 3.1 or 3.11 in

enhanced mode. Windows for Workgroups automatically loads a comparable file-sharing utility called VSHARE.386.

NOT SO SMART. Microsoft SMARTDRIVE version 5.0 supports CD-ROM drive caching. Any CD-ROM that is supported by Microsoft CD-ROM Extensions (MSCDEX.EXE) can be cached by SMARTDRIVE.

To take advantage of this feature, you must load MSCDEX.EXE before SMARTDRV.EXE (both are typically placed in the AUTOEXEC.BAT file). The MSCDEX.EXE program assigns a drive letter to the CD-ROM. Until it runs, the CD-ROM will not be recognized, and SMARTDRV will not be able to cache it.

To verify that your CD-ROM drive is being cached by SMARTDRIVE, type "SMARTDRV" at the MS-DOS command prompt and press ENTER. A list of drive letters currently cached will be displayed. Verify that your CD-ROM drive letter is included. Since CD-ROM drives are read-only (you can't save information to a CD-ROM drive), it will show the drive to be READ-cached but not WRITE-cached.

If the CD-ROM drive letter does not appear, verify the correct order of the statements. Caching a relatively slow CD-ROM drive can have dramatic effects on performance.

MOUSE TRAP. Windows versions 3.0 and 3.0a do not support using a mouse in an MS-DOS application running in a window. If your DOS application requires a mouse, you should run the application in full-screen mode, or upgrade to Windows 3.1, which does support this capability.

If you are running Windows 3.1 and experience mouse problems in DOS-based applications, the following suggestions may help.

Make sure your mouse driver is version 8.2 or later. Earlier drivers may not work properly under these circumstances.

If you're using a third-party video driver, try switching temporarily to the standard VGA driver that came with Windows. Some video drivers interfere

with mouse functionality, and an upgraded video driver from the third-party manufacturer may be necessary.

You can force Windows to use a mouse in windowed DOS-based applications by adding the following line to the [NonWindowsApp] section of your SYSTEM.INI file:

```
MouseInDosBox=1
```

Restart Windows to activate the changes.

BREAKPOINT POINTERS. General Protection Faults (GPFs) can occur in Windows for a variety of reasons. Isolating the cause can be time-consuming. The following suggestion seems to resolve many GPFs that occur during memory-hungry procedures, such as scanning or editing high-resolution or true-color images. These GPFs can be caused by insufficient breakpoints.

Breakpoints are internal pointers that provide a method of transferring control between processes operating under Windows' 386 Enhanced mode. The default number of breakpoints is 200, which may not be enough during memory-intensive situations or with some third-party device drivers. Once a breakpoint has been used, it is not returned to the pool of available breakpoints, so it is possible to run out.

The number of breakpoints can be increased by adding a statement to the SYSTEM.INI file. "MaxBPs" specifies the maximum number of breakpoints that can be used by the virtual memory manager.

To increase this value, add the following line to the [386Enh] section of your SYSTEM.INI file:

```
MaxBPs=400
```

Restart Windows for the changes to take effect.

CHANGE OF ADDRESS. Macintosh Bus Errors (type 1 errors) and Illegal Instruction Errors (type 3 errors) are generally caused by running older Macintosh software on newer machines under System 7. When these older programs were written,

(Continued on Page 13)

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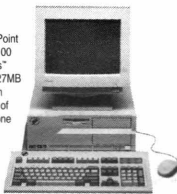
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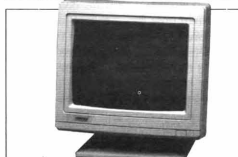
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171 FS Color	17" Flat	1024 x 768 NI	.28mm	30-58kHz	50-100Hz	14.7"	VGA/SVGA	Low Swedish Emissions

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An interview with Ed Krol, author of the best-selling "The Whole Internet"

It often seems these days that everywhere you turn people are talking or writing about the Internet. But to many of us, even those who work full-time with computers, the Internet remains something of an enigma.

In order to shed some light on the subject for the customers of Micro Center, we're bringing you the following exclusive interview with Ed Krol, author of the single most popular book on the Internet, "The Whole Internet."

Micro Center: Mr. Krol, virtually all of our customers own and/or use personal computers and are familiar with the concepts of electronic bulletin boards and online services. Everywhere they turn nowadays, in the media, they're hearing about the Internet. What is so different about the Internet?

Ed Krol: The Internet is a group of networks all acting in concert to appear to end users as one big network, and it is primarily a communications pipe with all of the information being in user machines at the end of it. So the difference between a lot of the proprietary data services and the Internet is that there is no big database machine in the sky which has all of the sports scores and everything on it. There are an awful lot of voluntary services out there which provide very localized and small targeted resources with no commercial value.

Micro Center: Who actually controls or governs the Internet?

Krol: The technical aspects of the Internet are governed by something called the Internet Society and the Internet Engineering Task Force. They are responsible for making sure that it all works together and reasonable standards are maintained.

Each of those 37,000-some odd networks that are a part of the Internet are autonomous, but they've latched on to a philosophy which makes them cooperate with each other. So there is no CEO or president of the Internet who governs and dictates policy for the whole thing. There is a more or less democratic view of how the thing should work, and people get together and talk until they reach some consensus for what should happen in a particular situation.

Micro Center: How did the Internet come into being?

Krol: It started in our Department of Defense, when they were trying to do research into how to build a data communication network which could withstand catastrophes. For example, they could sit in Washington and say, "Shoot these missiles." If the message was destined for Kansas City, and in the middle of the message, St. Louis gets vaporized, somehow those messages would have to get through.

The interesting design they came up with is to assume that the network is totally unreliable, and let the end machines have all the smarts in them to figure out how the messages should be sent and whether or not they got there. I guess it was a fairly good design because it has grown far beyond its design criteria and is still growing strong.

Micro Center: What were your early activities on the Internet?

Krol: The activity which got me on the road to writing the book was when I started

looking at how to get connected to the Internet, there were a lot of circular references to people you needed to talk to, and they were not well-documented. People would talk in cryptic acronyms like "download that template from the NIC." It took me a long time and a number of phone calls to figure out what all that stuff meant.

I kept a diary of everything I did. Then, when I got connected and the Internet started to become a research tool, all these peo-

ple said, "How did you do it?" So, I wrote this thing called "The Hitchhikers Guide To The Internet," which was a 20-page everything-you-need-to-know-to-get-connected type of thing. It got passed around the Internet, and is still being passed around even though it is a bit dated now. Based on that, O'Reilly recruited me to write the book.

Micro Center: Is it difficult to keep the book updated? Is the whole system evolving too rapidly to have a book that is ever really current, or is it fairly stable now?

Krol: The textual parts of the book are reasonably easy to update in a fairly quick time frame. If we think about re-reading the text and revising it about every 18 months, it's probably doable and probably the right time frame. The number of resources at Internet is growing amazingly fast. There is no way I can think of that any one index could keep up with the whole state of the Internet.

Micro Center: Who should be interested in using the Internet? Who is it for?

Krol: It's for someone who is looking for information about something when they want it. It can be anything. For example, your child comes home and is sitting there doing homework, and (of course, just after the library closes) says, "I need a copy of the German surrender document from World War II, where can we get it? It's due tomorrow."

These are the kind of people who could really use the Internet, along with people who are after sports scores, stock market quotes, and discussions. Also, there is an awful lot of U.S. Government information out there. In fact, the Clinton administration is trying to get virtually everything the government used to print available through the Internet somehow.

The National Institute of Health has this resource, Cancernet, available on the Internet, which has the most up-to-date treatment information for various kinds of cancer. So, if you go to the doctor and get diagnosed with some kind of cancer, you can go to this database and say, "I've just got diagnosed with carcinoma. What's the treatment for it?" You can see what your doctor is telling you, and see what the National Cancer Institute tells you. Then, if

they are saying the same thing, you know the doctor is reasonably up-to-date. If not, then you can worry about second opinions.

Micro Center: Why is it seemingly so complex to hook up to the Internet? Why can't someone just dial into it like we do with BBS systems or CompuServe or Prodigy?

Krol: The reason it is so difficult to get connected is that the philosophy of the Internet is that the end machine should be responsi-

ble for doing the actual work of providing the communications. You can get access to the Internet by using Procomm or Versa-term or something like that where you become a terminal, or emulate a terminal and dial up someone else's machine which is on the Internet. And it would look a lot like CompuServe or America Online, or whatever.

However, what you get is whatever that service provides, which could be some subset of what the Internet can bring you. The better way,

and the harder way, is for your machine to actually become part of the Internet, which means you need a bunch of special software and a little technical expertise to get all of that working.

Now, there are a number of groups which are trying to get that process a lot simpler. There is something called "Internet in a Box," which gets you books and software and an account all wrapped up in one package. So, if you have a "Windows" kind of machine, you can slap in a diskette, read the book, and you're on the Internet.

Micro Center: Is there a charge to be attached or connected to the Internet?

Krol: There are charges for the Internet, and they are likely to worsen over time. Basically, the government now funds the majority of the connections between areas, or a big chunk of it. There are commercial firms in that market, but the government funds just that piece of it.

The services that connect you to the Internet have to pay people, and also have to rent a telephone line to the nearest long distance provider's office. That's where the charges you have to pay come in. You have to pay for your share of that line running to the rest of the Internet, plus pay for some of the people that work for your provider.

Over the next couple of years, the government is going to get out of the Internet subsidy business. Therefore, the cost associated with each provider will likely go up because they will have to start paying for their piece of the long distance providers' network, too.

Micro Center: What are the minimum hardware requirements to be on the Internet?

Krol: It doesn't take much of a machine, but

(Continued on Page 13)



Ed Krol

(Continued from Page 12)

it depends a lot on what you want to do. If all you wanted to do is send electronic mail, you can do that on any kind of machine that will run a terminal emulator, by just accessing an Internet machine somewhere else in timesharing mode.

If you want to run the actual Internet applications, like the one that has caught everyone's eye because it can do multimedia — something called Mosaic — you need a Windows machine or a Macintosh and a high-end modem. You'll like the Internet a lot more if you can use one of the higher-end modems, running 9600 or 14,400 baud, rather than a 2400 baud modem which is OK for the terminal stuff.

Micro Center: What is the best way, for there is a single best way, for an individual or small business to get connected?

Krol: First of all, you need to figure out what you want to do. Do you want to send electronic mail? Are you going to use it every day, or are you going to use it 3 hours a day, or 20 minutes a day?

If you get into a Chicago or New York, you could probably find 8 or 10 Internet providers which would all offer equivalent services with various twists on them. One of them would give you the software you need; one of them would say, "This is cheap service. Here's your line, do whatever you want." If you get into the smaller cities, you may only find one provider who is going to take your business.

There is another book from O'Reilly called "Connecting to the Internet" by Susan Estrada. It's a list of providers by geographical area, plus a bunch of information on how to figure out what you need and how to negotiate with your provider.

Micro Center: Are you surprised at the seemingly huge number of Internet books that have hit the bookstores in the last few months?

Krol: It seems everyone is writing one. I sometimes think of how on the David Letterman show he invites a class of people to run up on stage. He'll have nurses day, then a bunch of nurses will run up on stage. I'm waiting for the day when I get this call from David Letterman that says he is going to have Internet authors running up on the stage!

Micro Center: Is the Internet getting a bad rap about how difficult it is to get up and running on a PC, or is that rumor well grounded in truth?

Krol: It's actually well grounded in history. If you go back to the time when it was developed (back in 1970), you had the packet services like Teletel and Tymnet, and you had Internet. Up until about 5 years ago, what you did on the Internet was 1970 computer technology. You logged into other machines, and you sent E-mail, and you transferred files all of these doing things like typing in a bunch of DOS commands, because back in the 70's, command line interface was the way you did computers.

There was no index on what was out there. People had little notebooks written in long hand on where to find files. Then, about the same thing happened in Internet that happened in the rest of computing. When PC's came out, they were hard to use, but everyone said, "I can do BASIC at home and my life is wonderful now." Then someone came up with the idea that you could do a spreadsheet, a graphing package, and a word processor, and you could print three documents and cut with a pair of scissors and paste them with glue and produce nice stuff. Then you had a more in-

tegrated package where you do all that in one package and just print the finished document.

That same thing is happening in the Internet. They've gone away from command line interface, and now it's mostly a point-and-click kind of interfaced Windows. You can browse around for what you want, choose a file, and download it to your machine just by using your mouse.

Now there are any number of indexes where you can search and say, "I'm looking for this particular software package or information that has these particular key words in it." It will then give you a list of perspective documents which you can choose yourself. I think that Internet traditionally has been hard to use, and it stayed that way until about 1989. Then it quickly got fairly easy to use. Now, on a well-configured Internet machine, you'd probably never have to do anything other than use a mouse to do basic stuff.

Micro Center: Are there commercial opportunities on the Internet? That is, could someone make a living or supplement one's income as a self-employed or freelance Internet expert somehow?

Krol: There are a number of business opportunities available in the Internet. One of the problems with providing data on the Internet is that you need a machine which can be connected all the time. If you are going to give away information about your product on the Internet, you need to have a machine which is there to give away the information whenever anyone in the world wants that information. Most home connections to the Internet are not like that.

There are a number of service bureaus which will take your information and make it an Internet resource. There are a number of businesses which are now allowing people to browse their catalogs and order through the Internet. So, there are opportunities in formatting and serving these resources. There are also a number of electronic publishing houses where you give them the information you want, and they make a spiffy display for you and put it up on line, or give it back to you and you can take it to a vendor of your choice. I guess they do what ad agencies did with broadcast media.

Then on top of that, because the Internet is growing so dramatically, there are a bunch of opportunities for people who have expertise in the area of Internet-style networking.

Micro Center: Can you debunk some of the more common myths about the Internet?

Krol: The biggest myth is you can't do commercial stuff, when, in fact, most of the newer exciting things on the Internet are fairly commercial. On Valentine's Day this year, there was this florist that put on pictures of its bouquets. If you wanted one, you would just click this thing that said, "I want to buy one of these." Then it would pop up a form which said, "Where do you want this sent to, what do you want written in the card, and how do you want to pay for this?" So, you can certainly do commercial things in the Internet as long as you don't do them intrusively. That's one myth.

I guess the other sort of half-myth is that the Internet has absolutely no security. In fact, there is not a lot of security on the Internet, but if I send an E-mail message from here in Illinois to you in Ohio, if someone is going to sneakily look at that message, they're very likely going to sneak their look either close to me or close to you. There is no way that some hacker sitting at Stanford can say, "Show me every E-mail message that Ed Krol sends out of the

University of Illinois."

Once the Internet gets out of the University of Illinois, it's covered by all of the wire-tapping laws that apply to phone companies, because it's all carried on phone company lines. The local area networks which are commonly used to connect people and business to the Internet are really insecure. The wire which is used to connect my machine to the Internet is shared with everyone in my office suite. It is possible that someone will see things which you don't want them to see, but it will likely be someone sitting close to me. And the same is true on your end.

Micro Center: If you had total control over the Internet, what changes would you make?

Krol: Can I change that question to what I would keep the same? The whole of the Internet is based on the ability, once you get connected, to access computers anywhere for a single price, without regard to their location or how much you want to transfer. Right now, if I buy a 2400 baud connection to the Internet, it doesn't cost me any more to transfer one page of information or a whole book's worth of information, and it doesn't cost me any more to transfer that information from Chicago or from Helsinki.

The whole culture of information that is the Internet is based upon that philosophy of charging; I may pay so much per hour, but what I do within that hour is not extra. If that changes, probably the Internet will die.

If you start charging by the megabyte, by the packet, by distance, or something like that, you're not going to be able to let kids browse on the Internet, because you are going to live in fear that you are going to be working on the car and come back into your house, and your six-year old is ecstatic because he found the dinosaur museum with all these neat pictures of dinosaurs in Honolulu; and in the process of downloading them all, he ran up a \$300.00 bill!

Then there are all the people who are giving away information. If I decide what the Internet really needs is the Champaign Park District youth soccer schedule on line, which is a service to everyone here who's got a kid in soccer, I'll do it now because I don't have to pay anything for people to access that information. If, all of a sudden, every time someone asks me for something and I send information out I have to pay more for it, all these little resources on the Internet will dry up.

Tips & Traps

(Continued from Page 9)

Macs with 32-bit busses did not exist. Most of the time the simple process of turning off 32-bit addressing under Memory in the Control Panel will solve this problem.

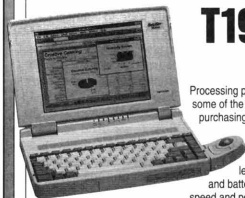
There are side effects of running your Macintosh without 32-bit addressing. First, you won't be able to use more than 8 megabytes of memory on your machine. Second, some software requires 32-bit addressing to run properly.

This solution does not work for all programs, of course. There may be other incompatibilities between older software and newer machines. Contact the software publisher for a current version of the software under these circumstances.

Note that the new Power Macs cannot have 32-bit addressing turned off. A software patch or upgrade would be the only solution to a compatibility issue.

QUALITY-ENGINEERED PORTABLES

Trusted mobile computing brands whose



T1910 SX/33 200MB

Processing power, battery life and carrying weight are some of the important features to consider when purchasing a notebook computer. Toshiba knows how to put a lot of features into a small package. The T1910 features a 3.3 volt 486SX processor, drawing less power, less heat, and providing longer component and battery life. It runs at 33MHz, providing the speed and power you need, and comes with a 9.5" monochrome display. Ergonomically placed keys and mouse add to your comfort, and at 6.5 lbs., this unit is light enough to travel anywhere you do.

TOSHIBA

**T1910CS SX/33
200MB**
Dual-scan color #819037

\$2289

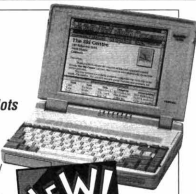
\$1679
#819029

T1960CS 200MB/DS

Well-integrated features provide for lots of power in a lightweight notebook!

This bright, STN dual scan VGA color display really shows off the quality of this lightweight, 7 lb. notebook! You won't believe its clarity, and how easy it is on your eyesight! Toshiba brings you the best combination of performance and value in a well-built, clam-shell case. You'll marvel at all these features:

- Fast DX2 50MHz CPU with integrated coprocessor
- 4MB memory is upgradeable to 20MB
- 3.3volt circuitry
- MaxTime™ power management with Auto-Resume



NEW!

TOSHIBA

T1960CT 200MB
Active matrix color #849455

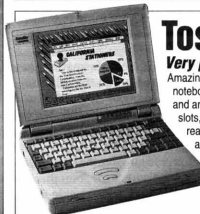
\$2599
#849448

NEW!

Toshiba T2400CS 250M/DS Color

Very practical notebook at a very attractive price!

Amazing video performance, amazing power and amazing connectivity are just some of the benefits of owning a T2400CS notebook computer. This portable computer has a powerful 50MHz DX2 processor, a graphics accelerator and local bus for superior video performance and an integrated AccuPoint™ pointing device for easy accessibility to graphical menus. It features two PCMCIA slots, a SCSI-2 port and optional port replicator for unlimited future expansion. This little notebook is multimedia ready with optional sound upgrade. The T2400CS includes a bright 9.5" color dual scan display and supports a high resolution external monitor. MaxTime™ Power Management is included along with the 3.3 volt circuitry to further reduce power consumption and prolong battery life. All in all, Toshiba makes a very practical notebook at a very attractive price.



TOSHIBA

T2400CT 320MB/Active

\$3199
#856252

\$3999
#856260

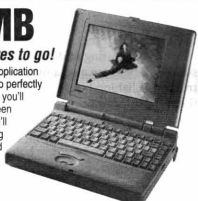
Toshiba T3400 120MB

Order up a powerful notebook computer with features to go!

This no-compromise notebook computer meets your every expectation for application power, memory management and portability. Never before has a computer so perfectly balanced mass and speed. At less than 4 lbs., this computer is so light that you'll never have to leave your important notes and files behind. The T3400 has been engineered to the extremes of portability without compromising usability. You'll have easy access to your applications when updating information and making interim notes become as important as delivering status reports. And its speed will have you completing your projects in far less time so you can move on to other things. After all, time doesn't stand still and neither do you! Make this order to go...

- 486SL 33MHz processor
- 4MB memory, upgradeable to 20MB
- 120MB internal hard drive
- 1.44MB external floppy drive and 82 key keyboard
- 8.4" STN-LCD monochrome display with accelerated graphics and local bus video
- PCMCIA type II slot for compatibility with modem and networking cards.
- Optional port replicator for one-touch connection to any peripheral

TOSHIBA



\$1299
#745156

TOSHIBA SPECIFICATIONS

	T1910	T1960CS	T1960CT	T3400	T2400CS	T2400CT
33MHz SL Enhanced 486SX processing	✓	✓	✓	✓	✓	✓
Energy saving 486DX2 50MHz 3.3 volt processor	✓	✓	✓	✓	✓	✓
MaxTime Power Management	✓	✓	✓	✓	✓	✓
4MB RAM upgradeable to 20MB	✓	✓	✓	✓	✓	✓
DOS 6 and Windows included	✓	✓	✓	✓	✓	✓
Internal 1.44MB floppy drive	✓	✓	✓	✓	✓	✓
Flexible PCMCIA	✓	✓	✓	✓	✓	✓
Crisp, STN monochrome	✓	✓	✓	✓	✓	✓
Dynamic dual scan color	✓	✓	✓	✓	✓	✓
Color TFT-LCD	✓	✓	✓	✓	✓	✓
QuickPort BallPoint Mouse	✓	✓	✓	✓	✓	✓
Integrated AccuPoint	✓	✓	✓	✓	✓	✓
Serial, parallel, VGA ports	✓	✓	✓	✓	✓	✓
NiMH battery type	✓	✓	✓	✓	✓	✓
Lithium-Ion battery	✓	✓	✓	✓	✓	✓
Auto-resume	✓	✓	✓	✓	✓	✓

NEC Versa S/33 210MB DSTN

At just 4.2 lbs, the Versa S strikes the perfect balance between performance and portability!

The NEC Versa S/33 is lighter than most portables, yet packs just as much power and performance features into a slender, 1.4" profile. It features a full-size 9.5" display in dual scan STN color, 486 SX/33 MHz processor, a vast 210MB hard drive, and a SurePoint™ integrated pointing device. It has a full complement of printer and communication ports, handles two Type II or one Type III PCMCIA card, and has a large recessed keyboard with built-in palm rest.

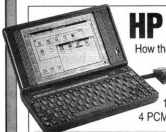
Everything expected from a full-featured notebook has been packed into this lightweight 4.2 lb. unit that slips easily into a briefcase. Includes external 1.44 floppy drive.

NEW!

NEC

#849604

\$2449



HP OmniBook 530 130MB

How the engineers were able to stuff all these features in a notebook weighing less than 3lbs is still a mystery, but you get the benefit!

- Features a 486SX 33MHz microprocessor.
- 130MB hard drive, 4MB RAM.
- 4 PCMCIA slots and much more!

\$1749
#833947

Fax/Modem Communication Pak #856091 **\$379**
2MB RAM Upgrade #857007 **\$169⁹⁵**



HP 200LX Palmtop PC

For handy access to all your applications on the road, consider the HP Palmtop 200LX. Includes Pocket Quicken!

\$529
#855983

200LX Connectivity Pak #855983 **\$104⁹⁵**
AC/DC Adapter 100/200LX #855100 **\$34⁹⁵**

NEW!

BRAND NAME MANUFACTURERS!

features prove it's hard to hit a moving target!

Comtura Aero 4/33C 170MB

Discover the convenience of 7 day hibernation and instant-on technology, just open the notebook and get started right away!

Open it up. Inside, you'll find a vivid color STN VGA display that provides superior color clarity at any viewing angle. Place your hands on the keyboard. You'll love the generous spacing of the keys, providing an exceptionally comfortable key layout with inverted T-Cursor and integrated trackball. Discover the unique power-saving features! In addition to 7 days of standby power in hibernation mode, instant-on eliminates boot time and the need to wait for applications to load. Why wait, when you can become productive right away?

Now you can get a lightweight notebook at a very light price! Powerful, affordable and incredibly portable, your Comtura® Aero™ meets the highest standards for dependability on the road. Each Compaq portable is covered by a 3-year limited warranty, round the clock technical support and RemotePaq diagnostics. Compaq Aero, you've got to get your hands on one!

- 33MHz SX processor with power saving circuitry
- 4MB system memory expandable to 12MB, 170MB hard drive
- 7.8" backlit passive matrix color display
- Integrated EasyPoint Trackball on lower right side of the keyboard
- 76-key reduced size keyboard with generous spacing yields exceptional comfort

COMPAQ #798280

\$1799

Comtura 4/33C Aero 250MB

Take your notebook to the max (and give your applications more room to grow) with a larger capacity hard drive. Instant-on technology gives you faster access to 250MB of data and applications every time you turn on the computer so you'll be right back working with the same program and data where you left off. Unique power conservation features extend the life of your battery.

\$1999

Aero Desktop Base

#799189 **\$99**

Aero 1.44MB Floppy Drive/PCMCIA

#790592 **\$99**

Aero 4MB Memory Card

#831727 **\$249**

Aero NiMH Battery

#831719 **\$99**

Notebooks designed, engineered and built by Compaq!

LTE Elite 4/40CX 340/Active



COMPAQ

NEW!

Compaq now makes it easy to upgrade your notebook computer with the peripherals you need to make life a lot more convenient

Compaq understands that not everyone will be satisfied with putting the same components in a notebook, so they've made it easy to upgrade your hard drive, insert a network card, a fax modem, or add secondary storage without needing to call a repairman or find someone with a toolkit. They provide a specially designed hard drive carrying case and hard drive security clip when you want to remove your data or connect the drive to another machine. An extensive list of compatible PCMCIA cards are available to meet your needs for networking, communications, storage and others. They also make it more convenient for busy travelers by building in an AC adapter, which eliminates the added weight or bulk of a separate adapter. And when you need help, tech support is only a phone call away, with round the clock telephone support. If you've been waiting for the one computer that can truly meet all your needs, the wait is over. Come see the Compaq LTE Elite for yourself.

\$4399

#876268

3 Year Warranty on Compaq notebooks

COMPAQ SPECIFICATIONS

	Aero 433C	Elite 440CX
486DX2 40MHz processor	✓	✓
486SL 33MHz processor	✓	✓
4MB RAM expandable to 20MB	✓	✓
4MB RAM expandable to 12MB	✓	✓
Internal 1.44MB floppy drive	✓	✓
Passive matrix color screen	✓	✓
Vivid active matrix color display	✓	✓
Handy integrated trackball	✓	✓
Flexible PCMCIA slot	✓	✓
DOS and Windows software	✓	✓
NiMH battery type	✓	✓
Duracell battery type	✓	✓
AC adapter built-in	✓	✓

IBM

Notebooks with every thought given to reliability, convenience and power!

ThinkPad 355CS 170MB/DS

IBM adds a new ThinkPad model to its impressive lineup with the model 355CS. Its most important features enable you to remove the hard drive and store it offsite for data security, or to move it to another machine for easier access. Why fly across country with notebook, carrying case, printer, accessories, adapter and cables in tow, when you can simply remove the hard drive, pack it up in its security case and transport it to its new location? Just plug it in to the ThinkPad at your new location, make your presentation and go on working just as if nothing has changed. It's a lot less baggage and a lot more convenience for you! And when you sit down with your new ThinkPad, you'll know you were made for each other! This dual scan color display looks great; it's easy on your vision, and just as easy on your budget.

\$2599



#848069

ThinkPad 355C
with 250MB Hard Drive & Active Matrix Color



\$3749

NEW!

#848051

intel inside

- Intel SL enhanced 486SX 33MHz+ 4MB memory, upgradeable to 20MB
- Removable 170MB hard drive
- Internal 1.44MB floppy drive
- 9.5" dual scan, high contrast color display
- Lightweight 5.5 lbs.
- NiMH battery
- 24/96 faxmodem
- 2 PCMCIA Type II or 1 Type III slot
- Local bus video
- Pre-loaded MS-DOS, Windows, Works for Windows, FaxWorks, Prodigy, America Online, OAG FlightDisk, Housecall, ThinkPad Fitness, ThinkPad Index, ThinkPad 355 Demo

IBM SPECIFICATIONS

	ThinkPad 355CS Model 25 (19" x 20")	ThinkPad 355C Model 26 (18" x 15")
486SX/33 SL Enhanced	✓	✓
4MB RAM expandable to 20MB	✓	✓
Quick access 170MB hard drive	✓	✓
Internal 1.44MB floppy drive	✓	✓
Large 250MB hard drive	✓	✓
9.2" VGA Color STN screen	✓	✓
8.4" Active matrix screen	✓	✓
Internal 24/96/48 fax modem	✓	✓
Handy Trackpoint II mouse	✓	✓
Full reach 85-key keyboard	✓	✓
3.0 hours NiMH battery life	✓	✓
PCMCIA Type II Slot	✓	✓
1 Year Warranty	✓	✓

MONITOR VALUES FOR MOST ANY PRICE AND PURPOSE

Multifrequency Monitors — Higher Resolutions, More Flexibility

IBM SVGA



IBM
#28 Monitor **\$354**
Model #59C9977
#683904

Low Emission SVGA



COMPAQ **\$279**
SVGA Color #848127

3 Yr. Warranty Affordable



NEC **\$AVE**
MultiSync 2V #833921

Affordable Non-Glare Flat Screen



NEC **\$AVE**
MultiSync 3V #713347
NEC MultiSync 3F6 #673137 **\$599**

Monitor	Screen Size	Maximum Resolution	Dot Pitch	Horiz. Scan Frequency	Vert. Scan Frequency	Compatibility	Other Features
IBM PS/1 SVGA	14"	1024 x 768	.28mm	31.5kHz	60Hz	VGA, SVGA	Tilt/Swivel Base
Compaq SVGA Color	14"	1024 x 768	.28mm	31.5-38kHz	43-60Hz	VGA, SVGA	Anti-Glare Screen
NEC 2V	14"	1024 x 768	.28mm	30-57kHz	50-100Hz	8514/A, XGA, XGA-2, Mac	Digital Control System
NEC 3F6	15"	1024 x 768	.28mm	31-39.5/47.8-49.5kHz	55-90Hz	8514/A, XGA, XGA-2, Mac	Digital Control System
NEC 3V	15"	1024 x 768	.28mm	31-50kHz	55-90Hz	8514/A, XGA, XGA-2, Mac	Intelligent Power Manager

multiple scan with non-interlaced 1024 x 768 resolution

Low Emission Non-Interlaced



COMPAQ **\$414**
1024 Color #848119
COMPAQ FS151 #84077 **\$499**

Flat Screen



IBM **\$499**
15" NI Model #73G3241
#683946
IBM SVGA NI #63038 **\$399**

Trinitron with 3 Yr. Warranty



SONY **\$499**
Multiscan 15SF #833954

Digital Controls & XGA2 Compatible



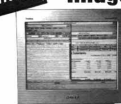
NEC **\$659**
MultiSync 4F6e AccuColor #673111

Monitor	Screen Size	Maximum Resolution	Dot Pitch	Horiz. Scan Frequency	Vert. Scan Frequency	Compatibility	Other Features
Compaq 1024	14"	1024 x 768(NI)	.28mm	30-58kHz	50-100Hz	VGA, SVGA	User-adjustable Controls
Compaq FS151	15" Flat	1024 x 768(NI)	.28mm	30-58kHz	50-100Hz	8514, XGA, XGA-2, Mac	Low Emission Full Square
IBM PS/1 FS SVGA	15"	1024 x 768(NI)	.28mm	30-58kHz	50-100Hz	VGA, SVGA	Digital Controls
Sony Multiscan 15SF	15" Flat	1280 x 1024(NI)	.25mm	31-64kHz	55-120Hz	VGA, SVGA, 8514, Mac	Energy Star
NEC 4F6e	15"	1024 x 768(NI)	.28mm	31-62kHz	55-90Hz	8514/A, XGA, XGA-2, Mac	AccuColor Control System

large format monitors for greater comfort and control

New 3 Year Warranty

Auto Adjust Images



SONY **\$1099**
17SE #749483

Flat, Anti-Glare & Reduced Magnetic Field



NEC **\$1099**
MultiSync 5F6e #673129
NEC MultiSync 6F6p #761676 **\$2199**

Trinitron 1280 x 1024 Resolution



SONY **\$2099**
GDM-20SE #877076

State-Of-The-Art Video Display



COMPAQ **\$999**
171FS #750075

Monitor	Screen Size	Maximum Resolution	Dot Pitch	Horiz. Scan Frequency	Vert. Scan Frequency	Compatibility	Other Features
Sony 17SE	17"	1024 x 768(NI)	.25mm	28-58kHz	50-87Hz	VGA/SVGA/8514/Mac	Application Specific Int. Circuit
NEC 5F6e	17"	1024 x 768(NI)	.28mm	31-62kHz	55-90Hz	8514/A, XGA, XGA-2/Mac	View Multiple Applications
NEC 6F6p	21"	1280 x 1024(NI)	.28mm	27-79kHz	55-90Hz	8514/A, XGA, XGA-2/Mac	CAD, Graphics, DT Publishing
Sony GDM-20SE	20"	1600 x 1200(NI)	.30mm	30-71kHz	50-120Hz	VGA/SVGA/8514/Mac	Swedish MPR II Compliance
Compaq 171FS	17" Flat	1024 x 768(NI)	.28mm	31.5-58kHz	50-100Hz	VGA/SVGA/8514	Front Panel Controls

See Pages 9-12 For More Exciting Monitors!

INKJET AND LASER PRINTERS

Canon

BJC-4000 BubbleJet Color Printer



This Bubble Jet printer allows you to print out superior high resolution black and white documents at laser speed. Quickly produce 720x360dpi resolution at 5ppm, or change to brilliant, full color 360x360dpi for more flair and impact. The BJC-4000 holds up to 100 sheets of letter size paper or 15 envelopes and prints on a variety of paper stock including transparencies. All this versatility and high performance is available to you in a compact desktop design at a very compact price.



- Superior laser monochrome 720 x 360dpi
- As fast as a laser, over 5ppm
- Supports up to 16.7 million colors
- Replaceable ink cartridges for low cost
- 2-year limited warranty

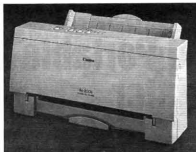
- Windows drivers included
- Prints on plain paper, coated stock, glossy, transparency or back print film

Canon

\$499

#871590

Canon BubbleJet 200e



The inkjet printer with the famous Canon engine!

The BJ-200 inkjet printer now has dramatically improved graphics and faster text throughput. You get 360dpi resolution, bi-directional printing in 256 shades of gray with new error diffusion and a multipass mode for improved text and graphics. Crisp, sharp text, and smooth gradients will make your documents really stand out. Quiet, 42dB (A) noise level and 700,000 character inkjet cartridge life provides laser quality printing at half the cost.

\$299

#762955

Canon BubbleJet 230

With Canon's innovative print head technology, the BJ-230 produces clean, crisp characters, and perfectly shaded half-tones for graphics so you always get professional looking documents.

- Laser-like print—360dpi
- Light weight—7.7 pounds
- Standard auto feed 100 sheets or 10 envelopes
- Sturdy compact design with a reliable 2-year warranty

Canon

\$429

#671800

BJC-600 BubbleJet Color Printer



The brilliant choice in a personal color printer!

The BJC-600 virtually eliminates bleeding across colors on plain paper. Thanks to new faster drying inks, and an innovative 4-color printer head that applies them with exact precision, you get beautiful color where you want it. There's also a separate ink cartridge for each color, so you won't have to replace all other colors when one runs out. It meets Energy Star™ requirements — the EPA's guidelines for energy conservation.

- Includes 20 scalable True Type™ fonts and 7 resident bitmapped fonts
- 360 x 360dpi resolution
- Features an automatic 100-sheet feeder—handles legal, letter, plain, coated paper and envelopes
- Lightweight 9.9 lbs.
- 2-year limited warranty

Canon

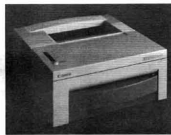
\$519

#694919

Canon BJ-10sx

Faster, high quality printing on the go!

The Canon BJ-10sx is the lighter, more affordable portable. Its compact design, fast performance and crisp, clean laser-like output makes the BJ-10sx the perfect printing solution for the most demanding mobile professional.



#736488

\$259



Canon LaserBeam 430

With the help of improved "automatic image refinement" for text smoothing and "super fine toner," the LBP-430 produces sharp, 300 dpi, high quality output. It features a new on-demand fuser technology, so it's ready to print almost instantaneously. It consumes 8 times less power than the average laser—meeting Energy Star™ requirements — the EPA's guidelines for energy conservation.

- 4 pages per minute
- 300dpi laser-like output
- 100-sheet universal cassette
- 22 fonts (8 scalable)
- 2-year limited warranty

\$629

#694927

IBM printers by Lexmark!

IBM® ExecJet II 4076 InkJet Printer

Upgrade to business class: The IBM ExecJet II by Lexmark

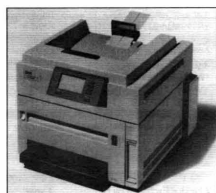
The IBM ExecJet II 4076 delivers laser-quality printing of text and graphics, for crisper text and fine detail drawings. It complies with the EPA Energy Star standards and carries a 2-year Lexmark Express Service warranty.

- High-quality 600x300 dpi using Print Quality Enhancement Technology
- Comes with 12 resident scalable fonts
- Handles the wide variety of the paper stocks you use every day — letterhead, labels, envelopes, transparencies and monarch sheets
- Supports all popular software with its HP® DeskJet® 500 printer and IBM ProPrinter® emulations
- 150 sheet capacity with a no-U-turn paper path to help eliminate paper jams
- High-speed parallel interface standard; serial interface optional



\$284

#720119



Lexmark 4039 10R

The IBM LaserPrinter 10R — a hardworking model for business and commercial applications!

\$1389

#673285

At 10PPM, the LaserPrinter 10R is an affordable alternative for generating text, business graphics or spreadsheets in single or shared printing environments.

- 10PPM with it's fast RISC processor
- 600 dpi with Print Quality Enhancement Technology
- 200-sheet tray with automatic paper-size sensing
- 12 bitmap and 52 scalable fonts
- Supports both PostScript and PCL5
- One-year carry-in warranty

Model #403910R

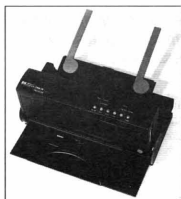
130-Sheet Duplex Accessory for 4039 10R

\$699

#673289

HEWLETT-PACKARD IS YOUR RELIABLE SOURCE FOR

NOW YOU CAN AFFORD TRUE PROFESSIONAL-QUALITY OUTPUT



HP DeskJet 310 Portable Printer

- 300 dpi Black or Color capable
- 84 typeface, style and size combinations

\$329

#711580

for no compromise printing!

Color Kit
\$39

Battery
\$42⁹⁵

Cut Sheet Feeder
\$82⁹⁵

Worldwide Rapid Recharger
\$82⁹⁵

Carrying Case
\$89⁹⁵

#726329

#550137

#550178

#676403

#550925

HP DeskJet 520 Printer

You'll not only find the speed and reliability of the HP DeskJet, but you get 600 x 300 dpi thermal inkjet printing at 3 ppm. Includes 6 internal bitmapped fonts and 13 TrueType scalable fonts for Windows.



higher resolution in inkjet technology!

- Includes HP's Resolution Enhancement Technology
- Inkjet cartridges prints to plain and glossy paper

\$279

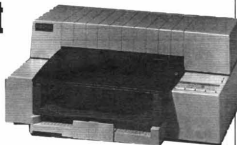
#762971

color makes ideas jump off the page!

HP DeskJet 500C Color Printer

The affordable color printing solution for the whole family!

With the advancement of inkjet technology, color printing has become much more affordable. HP's entry-level color inkjet printer provides crisp, 300 dpi printing in full color, or for superb text and grayscale images, change to the black cartridge. A brand new printhead is built into each cartridge, so it's like getting a printer tuneup with out the cost of a service call. Economical, clean, quiet, this DeskJet will serve you well for all your family and small business needs.



\$359

#411303

high resolution color and/or black & white output!

HP DeskJet 560C Printer

Create outstanding documents in sharp, 600 x 300 dpi resolution! Dual cartridges work together seamlessly for integrated color and/or B/W printing!

- Easy color with HP's ColorSmart technology
- Composite black and color printing at 3 ppm
- 6 built-in bitmapped fonts, 14 TrueType fonts



#762963

DeskJet - 256K Memory Expansion (except HP 1200C)

\$144⁹⁵

#244426

\$549

powerful office printer with full color!

HP DeskJet 1200C Printer

No matter what you want to accomplish in color printing, the HP DeskJet 1200C can make it happen. With support for 16 million colors, and a wide range of scalable fonts, PCL 5 and optional PostScript Level 2, this printer has the versatility to handle any printing job.

- Out of ink sensing — will stop printing
- Energy Star certified
- Uses PCL 5 printer language
- Improved quality with smoother print
- Improved memory management
- Page protection printing — with extra 4MB option, ensures complex page printing



Improved!

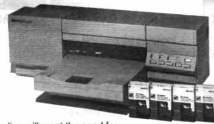
\$1399

#635482

laser-quality color plus connectivity!

HP PaintJet XL300 Printer

This 300 dpi workhorse in the HP color printer line will meet the need for beautiful color images and high impact charts and presentations, and, in keeping with HP's emphasis on quality and affordability, it won't destroy your office expenditures and maintenance budget! When you need laser quality color on plain paper or transparencies, or color proofs from your artwork or desktop publishing project, eliminate the middleman and produce high resolution text and graphics, with PCL level 5 color support, Intelligent scalable fonts, and optional PostScript Level 2. HP PaintJet XL300 - The color connection for your office!



\$2499

#495986

HP PRINTER FEATURES	DESKJET 310	DESKJET 520	DESKJET 500C / 560C	DESKJET 1200C	PAINTJET XL300
Printing Technology:	Inkjet	Inkjet	Color Inkjet	Color Inkjet	Color Inkjet
Maximum Monthly Volume (pages):	1,000	1,000	1,000	8,000	3,000
Print Speed (ppm):	Up to 3	Up to 3	Up to 3	Text-up to 7, Color-up to 1	Up to 6
Processing Speed:	NA	NA	NA	RISC 80960SA, 11MHz	NA
Printing Resolution:	300 dpi	600 x 300 dpi	300 dpi / 600 x 300	Text-600x300, Color-300dpi	300 dpi
Resolution Enhancement Technology:	No	Yes	No / Yes	Yes	No
Standard Number Input Trays / Capacity:	Manual	1 / 100	1 / 100	1 / 180	1 / 200
Output Tray Capacity:	NA	50	50	100	50
Paper Sizes:	Letter, Legal, A-4	Letter, Legal, A-4, Envelopes	Letter, Legal, A-4, Envelopes	Letter, Legal, A-4, Envelopes	Letter, Legal, Tabloid
Paper Types:	Copy, Bond, Transparencies, Labels	Copy, Bond, Envelopes	Executive (550C), A-4, Envelopes, Transparencies, Copy, Bond, Envelopes, Labels	Copy, Bond, Envelopes, Labels, Transparencies	Plain, Glossy, Jet Series Media, Transparencies
Standard Envelope Handling / Capacity:	NA	Manual / 1	Manual / 1 / Built-in/Up to 20	Manual / 1	NA
Two-sided Printing (Duplex):	No	No	No	No	No
Internal Bitmapped Fonts / Scalable Typefaces:	11 / NA	14 / NA	14/NA / 11/NA	1 / 45 Scalable	14 / 13
Font Cartridge Slots:	NA	2	2	1 (LaserJet Compatible)	2
Additional Downloadable Fonts:	NA	With Optional Memory	With Optional Memory	With Optional Memory	With Optional Memory
Standard Memory:	48K Buffer	16K Buffer	48K Buffer / 80K Buffer	2MB	2MB
Optional Memory:	NA	128/256K up to 512K	128/256K up to 512K	Up To 26MB	up to 18MB
Standard Interfaces:	Centronics Parallel	Serial & Parallel	Serial & Parallel	Parallel & Network I/O Slot	Parallel & AppleTalk
Standard Printer Languages:	HP PCL 3	HP PCL 3	HP PCL 3	HP PCL5, HPGL-2	PCL5, GL/2
Optional Printer Languages:	NA	Epson FX-80 and IBM Proprinter III	NA	PS Level 2	PS Level 2
Operating System:	453B	444B	453B / 493B	493B	473B
Footprint Size (W x L x H) with tray:	12.2" x 5.75" x 2.5"	17.3" x 14.8" x 8"	17.3" x 14.8" x 8" / 17.5" x 15.3" x 8.2"	19.1" x 16.9" x 11.1"	20" x 30" x 10"
Warranty:	1 year	3 years	3 years	1 Year-Unit Exchange by HP	1 year

SUPERIOR QUALITY, HIGH PERFORMANCE PRINTERS

REVOLUTIONARY PRINT TECHNOLOGY FOR EXCEPTIONAL OUTPUT

HP LaserJet 4L Printer

The LaserJet 4L is a complete, affordable and easy-to-use 300dpi laser printer specifically designed for the needs of the single user.

Create great-looking documents and graphics easily with HP's Resolution Enhancement technology.

Plus, you'll find simple, one-button access to all printer settings. HP's LaserJet 4L is the perfect choice for home or office.

designed for the single printer user

- 300 dpi plus Resolution Enhancement and toner
- Enhanced PCL 5
- 26 scalable typefaces
- 100 sheet adjustable tray / 50 sheet output

#630772

\$629



\$50 mfr. mail-in rebate

True 600 dpi Resolution!

HP LaserJet 4P Printer

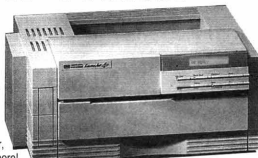
The LaserJet4P is the 600 dpi standard for affordable laser printing. This fully-featured printer offers 45 scalable typefaces, 2MB of memory with HP Memory Enhancement technology, 4 ppm engine with a fast RISC processor, outstanding paper handling and more!

fully-featured — stunning 600 dpi output

- True 600 dpi plus Resolution Enhancement and microfine toner for even greater sharpness
- Prints on more paper sizes and types than ever including post cards and 3 x 5 cards
- 4ppm with 45 scalable typefaces

#691907

\$899



sharp 600 dpi for the best image possible

HP LaserJet 4 Plus Printer

Outstanding print quality at the information super-highway speed!

High resolution 600 x 600 dpi output coupled with microfine toner produce the smoothest text and gradients for today's scalable font and imaging technology. The LaserJet 4 Plus includes 45 built-in scalable fonts selected from among thousands to handle a wide range of office applications and uses memory compression to virtually double the effectiveness of your printer memory. Complex documents print faster with a high speed RISC processor and PCL 5, up to 12 ppm, a necessity in today's busy office environment. Network compatible, and includes performance-tuned application drivers and high-speed parallel interface.

\$1397

#805374



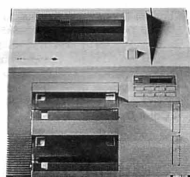
True 600 dpi Resolution!

unbelievable 600 dpi & 17 ppm printing!

HP LaserJet 4Si Printer

Crisis management comes to the aid of network printing!

This high performance network laser printer, based on a 25MHz RISC processor, is capable of printing at 17 ppm at a resolution of 600 dpi, and is one of the most adaptable printers built by HP. Its modular design enables you to add interfaces, memory, PostScript and paper-handling accessories to meet any business need. Built for multiple users, performance speed has been dramatically improved with high-speed, bi-directional parallel and network interfaces. Multiple input trays and a high-duty cycle of 75,000 pages per month certify this printer to handle the toughest, most time-critical job you can find. When you've got to have it, you've got to have the LaserJet 4Si!



\$3199

#605121

Font Cartridges

Pro Collection	#230250	\$239.95
Word Perfect (built into LaserJet III and IID)	#230812	\$159.95
Microsoft	#272252	\$159.95
Tax 1	#107235	\$159.95

PostScript Cartridge Plus (Level 2 PostScript)

Includes Adobe Type Manager and automatic language switching		
PostScript Cartridge Plus (Level 2)	#447972	\$399.95
PostScript SIMM for LaserJet 4	#564617	\$139.95
PostScript SIMM for LaserJet 4P	#724270	\$239.95
PostScript SIMM for LaserJet 4 Plus	#650601	\$119.95

Note: 6MB of memory required for PostScript

LaserJet accessories

Memory Expansion

1MB Memory Expansion-LaserJet 4L	#630954	\$99.00
2MB Memory Expansion-LaserJet Series III, IID, IIP & IIP	#307462	\$224.95
4MB Memory Expansion-LaserJet Series 4Si, 4 & 4M, PrintJetXL300 & DeskJet 1200C	#413872	\$234.95
4MB SIMM for LaserJet 4P/LJ4 4 Plus	#722454	\$249.95

Laser Input Trays

HP LaserJet Series II and Series III	Letter Size Envelope	#314478	\$61.95
	Legal Size Envelope	#314484	\$64.95
	Legal Size Envelope	#270769	\$69.95
HP LaserJet IIP and IIP	Letter Size Envelope	#270751	\$59.95
	Legal Size Envelope	#270769	\$69.95
	Envelope	#270744	\$69.95
HP LaserJet 4, 4 Plus and 4M Plus	Multi-Rt 250 sheet	#563999	\$89.00
	500 sheet cassette	#564021	\$299.00
	Pwr. envelope feeder	#564029	\$299.00

Duplex Accessory for 2-sided printing

\$549⁹⁵

#405035

HP PRINTER FEATURES	LASERJET 4L	LASERJET 4P	LASERJET 4 PLUS	LASERJET 4SI
Printing Technology:	Laser	Laser	Laser	Laser
Maximum Monthly Volume (pages):	8,000	8,000	20,000	75,000
Print Speed (ppm):	Up to 4	Up to 12	Up to 12	Up to 17
Processor Speed:	16MHz	16MHz RISC	25MHz RISC	25MHz RISC
Printing Resolution:	300 dpi	600 dpi	600 dpi	600 dpi
Resolution Enhancement Technology:	Yes	Yes and Microfine Toner	Yes and Microfine Toner	Yes and Microfine Toner
Standard Number Input Trays / Capacity:	1 / 100	1 / 250	2 / 350	2 / 500
Output Tray Capacity:	50	150	200	500
Paper Sizes:	Letter, Legal, A-4, Executive	3" x 5", Letter, Legal, A-4, Executive, Envelopes	Letter, Legal, A-4, Executive, Envelopes	Letter, Legal, A-4, Executive, Envelopes
Paper Types:	Copy, Bond, Envelopes, Transparencies, Labels	Manual / 1	Manual & Auto / 10	Manual / 1
Standard Envelope Handling / Capacity:	Manual / 1	No	No	Optional
Two-sided Printing (Duplex):	No	No	1 / 45	1 / 48
Internal Bitmapped Fonts / Scalable Typefaces:	0 / 26	1 / 45	1 / 45	1 / 48
Font Cartridge Slots:	0	1	1	2
Additional Downloadable Fonts:	Limited Only By Memory	Limited Only By Memory	Limited Only By Memory	Limited Only By Memory
Standard Memory:	1MB with ME1	2MB with ME1	2MB with ME1	2MB
Optional Memory:	up to 2MB	up to 26MB	1, 2MB up to 66MB	1, 4MB up to 32MB
Standard Interfaces:	Bi-Tronics Parallel	Serial / Parallel	Serial / Parallel / Modular I/O	Parallel / Modular I/O (2)
Standard Printer Languages:	Enhanced HP PCL 5	Enhanced HP PCL 5	Enhanced HP PCL 5	HP PCL 5, (Incl. HP GL2)
Optional Printer Languages:	NA	Adobe PostScript	Adobe PostScript	Integrated Adobe PostScript
Operating Noise:	48dB	Level 2 48dB	Level 2 42-3dB	Level 2 48-5dB
Footprint Size (W x L x H) with tray:	14.5" x 14" x 6.5"	14.7" x 15.4" x 6.8"	18" x 25" x 10"	21.6" x 29.5" x 16.5"
Warranty:	12 months	12 months	12 months	12 months

OKIDATA PRODUCTS—BUILT TO LAST

OKIDATA DOT MATRIX PRINTERS —affordable printing solutions for home or office

ML 520

Speed, quality and superior performance

- 3 printing speeds: 80, 320 & 430cps
- Faster than any printer in its class
- Automatic switching between different papers—no printhead adjusting necessary
- Okismart Panel™ for superior paper handling



\$399

ML 521 Wide Carriage #612713 **\$544**

ML 590

Feature-rich, 24-pin printer with color capability

- 2 printing speeds
- 7 resident fonts plus facelit
- Superior paper handling
- Automatic switching between different papers
- Okismart Typer™ for 8-part forms, labels and envelopes



\$469

ML 591 Wide Carriage #544668 **\$654**



ML 395

High-volume printer

- 4 printing speeds including 607cps
- high-speed draft
- 5-part forms capability

\$1099

#649459



ML 380

Small business printer

- 2 print speeds: 60cps or 180cps
- Perfect for home or small business
- 6 resident LQ type faces
- Professional paper handling



OKIDATA

\$229

#272328

ML 320 & 321

Durable 9-pin printers

- 3 print speeds: 63cps or 250cps
- Paper parking & push tractor
- Rugged & reliable



ML 320 Narrow Carriage #105551 **\$344**

ML 321 Wide Carriage #105569 **\$479**

PRINTER FEATURES	MODEL 520/521	MODEL 320/321	MODEL 380	MODEL 590	MODEL 591	MODEL 395
Print Head:	9-pin	9-pin	24-pin	24-pin	24-pin	24-pin
Draft Speed:	430	300	180	360	360	607
NLQ Speed:	80	62	60	120	120	242
Columns:	80/136	80/136	80	80	136	136
Resolution:	288 x 144	240 x 216	360 x 180	360 x 360	360 x 360	360 x 360
Buffer:	64K	28K	8K	23K	23K	64K
Resident Fonts:	2	4	6	7+Facelit	7+Facelit	6
Bar Code Fonts:	8	—	—	8	8	8
Paper Handling:	Top, rear, bottom	Top, rear, bottom	Top, rear, bottom	Top, rear, bottom	Top, rear, bottom	Top, rear, bottom
Tractor Types:	Push/pull option	Push/pull option	Push/pull option	Push/pull option	Push/pull option	Push/pull option
Pull Tractor:	#544692—\$45.95/ #544684—\$49.95	#146571—\$55/ #146589—\$59	#272344—\$55	#544692—\$45.95	#544684—\$49.95	NA
Emulations:	IBM ProPrinter Epson FX	IBM ProPrinter Epson FX	Epson LQ	IBM X/24 Epson LQ	IBM X/24 Epson LQ	IBM X/24 Epson LQ
Std. Interface:	Parallel	Parallel	Parallel	Parallel	Parallel	Parallel/Serial
Serial Interface:	#107755—\$79	#107755—\$79	#272351—\$99	#107755—\$79	#107755—\$79	—
Color Option:	—	—	—	#544676—\$59.95	#544676—\$59.95	—
Warranty:	1 year	1 year	1 year	2 years	2 years	1 year

OKIDATA LED PRINTERS —you'll find laser-quality at a much lower cost

LED printers offer laser-quality output at a much lower cost. This technology uses an LED (Light Emitting Diode) printhead as a light source within the imaging device. This form of elec-

tro-photographic printing was developed by Oki Electronics. The Okidata LED printhead is guaranteed for 5 full years, the longest warranty in the industry.



OL400e
\$499

#678375

Compact, Powerful, Rugged and Reliable

- 300dpi
- 4 pages-per-minute
- 44 resident bitmap fonts
- HP LaserJet Series II+ Emulation
- 100-sheet capacity
- Handles a variety of paper types
- 5.5" x 12.6" x 14.2"
- Lightweight—only 17 lbs.

1MB Memory \$119
#85205

This high productivity printer runs by a 16-bit RISC chip instead of an 8-bit, so you'll print a laser-quality page of mixed text and graphics extremely fast! All this power comes in a light, compact design, along with a 5-year LED warranty!

OL410e

\$699

#736462

Get outstanding 600 dpi output—Fast!

- 600 dpi class
- 2MB RAM with Enhanced Memory Management for full page graphics
- 4 ppm with RISC
- Dual interfaces with auto switching
- 12 scalable fonts
- 100-sheet capacity
- Handles a variety of paper types



OL410e/PS

\$979

#856328

The best page printer for growing businesses!

- 4 pages-per-minute with RISC
- 600 dpi class
- Adobe PostScript Level 2
- 37 Adobe PostScript fonts & 12 Intellifonts

Get complete Windows and Macintosh compatibilities right out of the box with auto switching interfaces and the ability to connect up to three computers at the same time.

LED PRINTER FEATURES	OL400e	OL410e	OL410e/PS
Printing Speed:	4 pages-per-minute w/RISC	4 pages-per-minute w/RISC	4 pages-per-minute w/RISC
Resolution:	300 dpi	600 dpi class	600 dpi class
Std./Max. RAM Memory:	512K/4.5MB	2MB w/ Enhancement Memory Management	2MB/5MB effective
Emulations:	HP LaserJet Series II+*	HP LaserJet Series III	HP LaserJet Series III, Adobe PostScript
Interfaces:	Serial & Parallel w/Auto-Switching	Serial & Parallel w/Auto-Switching	AppleTalk, Serial & Parallel with Auto-Switching
Standard Paper Input:	100 sheets	100 sheets	100 sheets
Paper Types:	Single sheet/envelopes/labels/transparencies	Single sheet/envelopes/labels/transparencies	Single sheet/envelopes/labels/transparencies
Standard Paper Output:	100 sheets, face down	100 sheets, face down	100 sheets, face down
Resident Fonts:	44 bitmapped	12 scalable, 2 bitmapped	37 Adobe PostScript, 12 Intellifonts
Warranty:	5-year printhead, 1-year parts & labor	5-year printhead, 1-year parts & labor	5-year printhead, 1-year parts & labor
Notes:	EPA Energy Star™ compliant	EPA Energy Star™ compliant	EPA Energy Star™ compliant

PANASONIC & EPSON PRINTERS

PANASONIC PRINTERS—quality printers and affordable prices

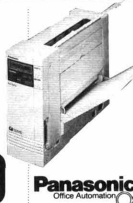
SideWriter™ KX-P4400

Small Footprint...Gigantic Feet!

The Panasonic SideWriter LED page printers tread new ground in the page printer market. They both give you a competitive print speed of 4 ppm, but their real advantage is their unique upright design and tiny (0.52 square foot) footprint that will fit on just about any desk.

- Sharp, 300 dpi resolution
- HP LaserJet Series II equivalent
- Very small footprint—weighs only 14.3 lbs.
- 100 sheet multi-purpose paper tray
- 28 bitmap fonts
- 1MB RAM standard, expandable to 4.5MB
- Fast 4 ppm print speed

#770420
\$479



Panasonic
Office Automation

SideWriter™ KX-P5400

The portable laser printer—it's quiet, fast and weighs only 14 pounds!

Put speed, power and portability on your desktop with the SideWriter KX-P5400 laser printer! Includes 2MB of standard RAM, 17 Adobe Type 1 fonts and offers crisp 300 dpi resolution. A user-installable PostScript fax option turns the SideWriter into a plain-paper fax machine, and there's an optional serial port or AppleTalk™ interface for a connection to your Macintosh.

- Sharp, 300 dpi resolution
- Unique "Sideways" design provides quiet operation
- 17 Adobe Type 1 fonts
- Fast 4 ppm print speed
- Plain paper fax option available in the fall

#730143
\$849



KX-P2130 Color Option

Panasonic offers a quiet, energy saving printer for the home office and small business with popular features including built-in 20 page cut sheet feeder and a flat-bed push tractor for easier paper handling. This addition to the Panasonic color option line of printers offers 24-pin dot matrix printing, print speeds up to 250cps in draft and 83cps in LQ mode.

- Built-in sheet feed handles up to 20 sheets
- Quiet 43.5dBA in super quiet mode
- Automatic paper load
- Single sheets can be loaded either in portrait or landscape orientation
- Multiple font capabilities
- Energy Star™ compliant
- 2-year limited warranty

\$30 manufacturer's mail-in rebate

#850339
\$209

PANASONIC PRINTER FEATURES	KX-P2130	KX-P2124
Print Head:	24-pin	24-pin
Draft Speed cps:	250	320
NLQ/SLQ Speed cps:	83	106
Columns:	80	80
Resolution:	360 x 360	360 x 360
Buffer Std.:	14K	20K
Exp. 32K Buffer:	—	#300137—\$59.95
Resident Fonts:	6 LQ	11+1 SLQ font
Paper Handling:	top/rear	top/rear/bottom/front
Tractor Types:	push	push/pull
Pull Tractor:	—	standard
Emulations:	IBM ProPrinter X24E Epson LQ860	IBM ProPrinter X24E Epson LQ860
Std. Interface:	Parallel	Parallel
Serial Interface:	—	#513713—\$89
Noise Level:	46.5dBA	46.5dBA
Color Option:	43.5dBA quiet mode #857474—\$49.99	43.5dBA quiet mode #466805—\$49
Warranty:	2 years	2 years
SKU#:	#850339	#499020
Price:	\$209	\$349

FEATURES	SideWriter 4400	SideWriter 5400
Speed:	4ppm	4ppm
Engine:	Panasonic	Panasonic
Tech:	LED	LED
Resolution:	300dpi	300dpi
Fonts:	28 bitmap	17 scalable
Memory:	1MB	2MB
Interface:	Parallel	Parallel
Emulation:	PCL 4	PostScript 2, PCL 4
Weight:	14.3 lbs.	14.3 lbs.
Options:	Serial interface, PostScript upgrade	Serial and AppleTalk interface, Fax Option
Warranty:	1 year	1 year
LED Printhead:	5 years	5 years
SKU#:	#770420	#730143
Price:	\$479	\$849

Panasonic Authorized Service Center

Panasonic Office Automation

EPSON PRINTERS—laser, laser-quality inkjet and impact printers to handle the job

Stylus Color Inkjet

The Epson Stylus™ Color Inkjet Printer now has the clear advantage. It now provides true 720dpi resolution on special paper, not just interpolated in software.

CRISP, 720dpi RESOLUTION

That's the clear advantage to you, dramatic, crisp edges to each letter, delicate graphics will no longer look smudged. It's a change you'll be able to see clearly!



#850396
\$599

Stylus 800+ Inkjet Printer

New and improved with micro weaving technology to eliminate banding. New printing head eliminates shadow, and misting. 360dpi resolution and a 2-year warranty.

EPSON
#071582
\$259

ActionLaser 1600

The personal and small business printer with built-in support for up to four users without the additional expense of a network!

FAST, HIGH-QUALITY OUTPUT!

- 600dpi with Resolution Enhancement Technology
- 6ppm print speed with RISC processor
- 45 built-in scalable fonts
- 2MB memory, upgradable to 64MB
- HP LaserJet™ 4 compatible & more



#842390
\$999

ActionLaser 1500

- 300x300dpi output • 6ppm print speed
- 1MB memory standard, expandable to 5MB
- 14 bitmapped and 13 scalable fonts
- High capacity input tray handles letter, legal, envelopes
- HP III and Epson dot matrix emulation

• Auto-emulation switching with optional Adobe Postscript card
• 6000 page toner cartridge / drum life
• Quiet 47 dB (A) noise level
\$599 2MB Memory #681973 \$159

EPSON IMPACT PRINTERS	AP-3250	FX-870	FX-1170	LQ-570+	LQ-1070+	LQ-870	LQ-1170
Print Head:	24-pin	9-pin	9-pin	24-pin	24-pin	24-pin	24-pin
Draft Speed cps:	250	342	342	269	269	330	330
NLQ Speed:	90	68	68	90	90	110	110
Columns:	80	80	136	80	136	80	136
Resolution:	360 x 360	240 x 216	240 x 216	360 x 360	360 x 360	360 x 360	360 x 360
Buffer:	—	24K	24K	8K	8K	8K	8K
Resident Fonts:	14/2 scalable	3	3	14/4 scalable	14/4 scalable	14/2 scalable	14/2 scalable
Paper Handling:	front paper tray	top/rear/ bottom/front	top/rear/ bottom/front	top/rear/ bottom/front	top/rear/ bottom/front	top/rear/ bottom/front	top/rear/ bottom/front
Tractor Types:	friction feed	push/pull option	push/pull option	push/pull option	push/pull option	push/pull option	push/pull option
Pull Tractor:	—	NA	NA	NA	NA	NA	NA
Emulations:	Epson ESC/P2	IBM ProPrinter Epson FX	IBM ProPrinter Epson FX	Epson ESC/P2	Epson ESC/P2	Epson ESC/P2	Epson ESC/P2
Std. Interface:	Parallel	Parallel	Parallel	Parallel	Parallel	Parallel	Parallel
Serial Interface:	—	NA	NA	#417303—\$67.95	#417303—\$67.95	#417303—\$67.95	#417303—\$67.95
Noise Level:	50dBA	55dBA	55dBA	46.5dBA	46.5dBA	55dBA	55dBA
Warranty:	2 years	2 years	2 years	2 years	2 years	2 years	2 years
SKU#:	#497891	#558114	#558106	#643056	#690834	#415828	#415810
Price:	\$179	\$299	\$399	\$249	\$397	\$499	\$699

QUALITY NETWORKING SOLUTIONS

EFA network adapters

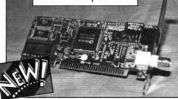
InfoExpress S16T 10BaseT

This 10BaseT Ethernet adapter provides a low cost, highly reliable connection for most popular network operating systems. The adapter is fully Novell tested and certified, providing automatic configuration by driver software and a full range of available IRQs. Pre-configured drivers available for all network operating systems, updated regularly with the latest drivers available by modem, 24 hour tech support and full lifetime warranty.

\$39⁹⁵

#819169

Lifetime Warranty
on all EFA products



InfoExpress S16B Coax	#819185	\$49 ⁹⁵
InfoExpress S16 Combo	#819201	\$49 ⁹⁵
InfoExpress Pocket Ethernet Combo	#818022	\$49 ⁹⁵
InfoExpress PCMCIA 10BT	#819151	\$179 ⁹⁵
InfoExpress PCMCIA Coax	#819144	\$179 ⁹⁵
InfoExpress Hub 8T	#819128	\$179 ⁹⁵

intel networking cards

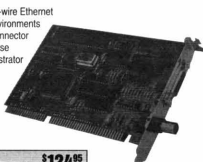
EtherExpress™ 16 Coax

Networking for business without the administrative nightmares

Providing 8-bit and 16-bit support for thick and thin-wire Ethernet cabling, this is an excellent solution for network environments where cable types are apt to change. Automatic connector configuration, IRQ and I/O address selection, reverse polarity detection and correction make your administrator job that much easier.

\$99⁹⁵

#535591



EtherExpress 16 Coax	#602722	\$124 ⁹⁵
EtherExpress 16 Coax 5-Pk.	#652172	\$479 ⁹⁵
EtherExpress Flash BNC	#798452	\$129 ⁹⁵
TokenExpress ISA 16S	#602730	\$349 ⁹⁵

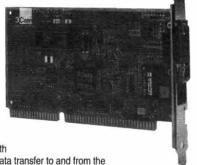


3Com network adapters

Etherlink III 10BaseT

Maximize your network performance by overlapping tasks

An unbeatable combination of high performance and low price characterizes these Ethernet adapter cards. Designed for operation with ISA, EISA and MCA buses, the adapters control data transfer to and from the network using 10Base-T twisted-pair or Ethernet coaxial networks. It accelerates data transfer by performing multiple operations concurrently, using a technology called parallel tasking for greater efficiency. During installation, a utility that senses PC configuration adjusts drivers automatically and sets the adapter's I/O address, interrupt level and transfer type. Integrating components into one, ASIC keeps costs down while increasing reliability.



\$139⁹⁵

#587857

Etherlink III BNC #587865 \$139⁹⁵

linksys connectors

Linksys Ether16 LAN Combo

You'll get 10 Megabits/sec data transmission speed over the network when you install this Linksys Ether16 LAN adapter. Auto detection of 8 and 16 bit boards, jumpers settings and support for both twisted-pair and thin coax networks mean you'll benefit from the power and blazing speed without the headaches. Fully compliant, software configuration, 4 diagnostic LED indicators, all drivers and diagnostic software included.

\$39⁹⁹

#812396



PCMCIA Ethernet Combo Card	#890365	\$179
Pocket Ethernet 10Base2	#812398	\$189

artisoft adapters/starter kits/software

LANTastic 6.0 Starter Kit

State-of-the-art computer networking with electronic mail, scheduling and fax capabilities, and the flexibility to configure your network as peer-to-peer, dedicated server or a combination are among the best features of LANTastic 6.0.

\$269⁹⁵

#810523



Simply LANTastic Starter Kit

Simply installed and configured, this networking takes the work out of networking, giving you controlled access to all drives and printers. Messages move faster on the network. These features will serve a small office indefinitely. When it's time to upgrade, all components and commands are compatible with the full LANTastic system.

\$179⁹⁵

#792168

Node Runner/SI 2000/C	# 810572	\$84 ⁹⁵
Node Runner/SI 2000/T	#810569	\$84 ⁹⁵
LANTastic 6.0 Add-On Kit	#810531	\$139 ⁹⁵
LANTastic 6.0 SW	#810549	\$84 ⁹⁵
LANTastic 6.0 SW-5 users	#810556	\$359 ⁹⁵

Simply LANTastic Add-on	#792192	\$94 ⁹⁵
Simply LANTastic SW	#792200	\$49 ⁹⁵

xircom adapters

Pocket Ethernet BNC

Network your PC through your printer port with models designed for Ethernet. This modular pocket LAN adapter is available for all popular wiring types and is compatible with all PC's and virtually all other compliant network operating systems including Novell NetWare, MS LAN Manager, Windows for WorkGroups, DEC Pathworks and others.



\$299⁹⁵

#631976

Pocket Ethernet10BT	#631952	\$299 ⁹⁵
Parallel Port Multiplexor	#630764	\$79 ⁹⁵
PCMCIA Ethernet Combo	#790584	\$299 ⁹⁵

hp adapters

HP JetDirect 10BaseT Adapter

For every problem, there's a solution. When it's connecting printers to a network, HP JetDirect provides the interface. Simply install your card into the printer expansion slot and you're ready to print from anywhere on the LAN. These JetDirect cards support most major network operating systems and include easy installation, configuration utilities and management software. You'll reduce the processing load on the network server and achieve better overall printing performance.



\$349



HP JetDirect EX External network interface for 10BaseT and BNC.	#711002	\$369
HP JetDirect 10BT, BNC, LocalTalk	#827857	\$399

co-active connectors

CoActive Connector

The Do-It-Yourself Network™ for Windows, DOS & Macintosh

Connection in less than 5 minutes!

Do-it-yourself networking - the concept boggies the mind. No sweating through the complex installation, no conflicts, just plug the computers, printers and devices into the connector with a phone cord, it's that simple! File sharing, and printer sharing with any combination of Macs and PCs.



\$229⁹⁵

#762494

CoActive Conn DOS/Windows	#762476	\$149 ⁹⁵
CoActive Mac to PC	#811630	\$149 ⁹⁵

misc. software & adapters

Windows for Workgroups

\$189⁹⁷

#744987

Microsoft Windows for Workgroups Upgrade Ver. 3.11

\$59⁹⁹

#801738

Asante 10BaseT Hub 8

\$249⁹⁵

#827307

Novell Personal Netware 1.0

\$84⁹⁵

#762508

MODEMS AND DATA COMMUNICATIONS

INTERNAL FAX MODEMS—14.4 • 24/96 • high speed



24/96 FaxModem internal

Send and Receive Fax and 2400bps Modem for IBM PC and compatibles

A full-featured faxmodem with 9600bps send and 4800 bps receive Class I fax and Hayes-compatible 2400bps modem. It works with even the fastest computers, and will communicate with virtually any modem or fax machine in the world. The faxmodem plugs easily into any PC compatible expansion slot and comes complete with powerful and easy-to-use fax and modem software.

\$32.95
#715987



Zoom Voice/Faxmodem

Intelligent hardware control of incoming and outgoing voice, fax and data calls

Amazingly affordable, the Zoom Voice/Faxmodem incorporates voice mail, digital voice storage and playback, 14,400bps send/receive fax and high-speed, and Hayes compatible modem for data communication. This product is capable of cellular phone connections and features a distinctive ring to share voice, fax and data communications on a single phone line. It is also equipped to handle CallerID service from your local phone company.

\$139.95
#747519



14.4 Ext. FAX w/ voice #747493 **\$159.95**



Zoom V.Fast 28.8 Internal FaxModem

Communicate with virtually any fax or modem in the world!

Conforms to international standards for high-speed data and fax transmissions using Rockwell V.Fast class standard for uncompressed data transmission at 19,200, 24,000 and 28,800bps and can automatically adjust to slower speed fax machines and modems. Internal modem with 16550 UARTRs.

\$159.95
#751269



SIIG 14.4 FaxModem Internal

Effective 57,600bps throughput is achieved very affordably with this 14,400bps fax modem!



It's a good buy you can hardly afford to pass up, a high speed modem, with all the features of the more expensive brands, and a five-year warranty. Very impressive! It handles Bitcom and Bitfax for Windows and is compatible with Group III fax at 14,400bps send and receive. The modem attains up to 57,600bps effective throughput using V.42bis data compression and V.42 error correction.

\$69.99
#865775

- Supports 14,400bps in both send and receive mode
- DTE speeds up to 57,600bps under good conditions
- High-speed UARTR buffers data reception to prevent data flow.
- Uses standard Hayes AT command subset

14.4 Internal FaxModem

Send/Receive 14400bps with v.42bis, and an incredible low price!

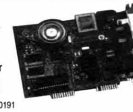
- Supports 14,400bps in both send and receive mode
- DTE speeds up to 57,600bps under good conditions
- High-speed UARTR buffers data reception to prevent data flow.
- Uses standard Hayes AT command subset

\$77.97
#860698

Practical Peripherals v.32bis Internal FaxModem II

High performance communication for home and office

Cost-effective 14,400bps send/receive fax and data includes a buffered 16550 UARTR for high-speed and background performance. It also features v.42 error control and v.42bis data compression. QuickLink II software makes data and fax transmissions simple to set up and operate.



\$119.95
#820191



Practical Peripherals 288 V.FC Internal FaxModem II

Lightning fast transmissions reduce global long distance charges!

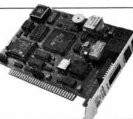
Dramatically reduce your transmission costs with this high-speed data/faxmodem. It provides high-volume transmission and maximum transfer rates. Its 28800bps modem can achieve up to 115,200bps throughput with data compression and the 14400bps fax can transmit and receive 57,600bps under ideal conditions.

\$249.95
#820183

Sportster 14.4 FAX

An easy-to-use modem including fax and communications software, the Sportster 14.4 is full-featured. It includes error correction to ensure data integrity and data compression. A powerful, advanced-design modem specifically intended for small business, home office and personal use.

U.S. Robotics \$129.95
#674275



MODEMS AND DATA COMMUNICATIONS

EXTERNAL FAX MODEMS—14.4 • 24/96 • high speed



24/96 FaxModem external

Send Receive Fax and 2400bps Modem for the IBM PC and compatibles

A full featured faxmodem with 9600bps send and 4800 bps receive fax and Hayes-compatible 2400bps modem that plugs into the serial port of your computer. It will communicate with virtually any modem or fax machine in the world. The quality of faxes is far better than those sent by conventional fax machines.

\$54.95
#715982



14.4 FaxModem external

14,400 bps V.32bis Send/Receive Fax/Data Modem with V.42bis and MNP

A fully integrated Group III, Class 1 and 2, 14,400 bps send/receive fax and full-featured Hayes compatible 14,400 bps modem. It can automatically adjust to slower speed fax machines and modems. Designed for high-speed error-free communications.

\$114.95
#737114

14.4 Mini Tower II FaxModem

State-of-the-art technology, a full range of features and cost-effective performance in an external mini tower design

Cost-effective operation of high-speed transmissions are accomplished using v.42bis data compression and v.42 error control. With this high speed external modem, you can achieve up to 115,200 bps DTE. QuickLink II software for Windows and DOS is included with an easy dialup interface and smooth protocol downloads. Practical Peripherals offers 7 days a week technical support and the best warranty in the industry.



\$139.95
#820175

28.8 VFC Mini Tower II #820209 **\$269.95**



Accura 288 V.FC + Fax External

The super fast and efficient, yet low cost modem for home and office.

Now you can download files over the modem at 28,800bps, saving enormous long distance charges. Features standard error control and data compression, capable of transmitting data at 115,200bps. Its fax is able to handle transmissions at up to 14.4Kbps. Super fast, efficient, free Smartcom™ software for Windows and 5-year warranty.

\$299
#800682



U.S. Robotics Sportster 14.4 Fax external

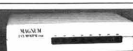
You'll get maximum throughput with V.42bis data compression and V.32 error correction and the convenience of Fax software with easy-to-use pull down menus.

\$149.95
#696997

14.4 External FaxModem

Quadruple your throughput to 57,600bps and save time and money!

- 14.4Kbps send/receive fax and data
- V.42 error control and V.42bis data compression
- Up to 56,700bps data throughput
- Group III faxmodem, sends and receives Class 1 and 2 fax transmission



\$109.95
#850131

Hayes ACCURA 14.4 FaxModem

High performance, cost-effective, stand-alone fax modem with support for all speeds from 14,400 to 300 bps plus V.42bis and MNP5 error control and data compression boasts throughput to 57,600bps on dialup lines. Ideal for use with all IBM PC compatibles.



\$159.95
#822563



PCMCIA MODEMS



14.4 PCMCIA FaxModem

Perfect for mobile computer users—the Megahertz PCMCIA FaxModems with XJACK connectors are the standard for compact, easy-to-install credit card modems. The XJACK, extendable jack, is a



simple and practical connector that pops out with the touch of a finger and allows you to hook directly to a phone jack without bulky cables.

\$254
#842567

Intel PCMCIA F/M 14.4

#800920 **\$259**

STORAGE

hard drives • floppy drives



limited quantities



These Seagate products are covered by a two-year mfr.'s warranty!

NEW! Conner Hard Disks
 Don't let your hard drive be a bottleneck! Move data faster with Conner!
Disk-Stor 420MB

Software, applications, data and graphics tend to demand more and more storage. Conner's 420MB hard drive provides increased space for all your applications. Its patented low power technique consumes 3.8 watts in idle. The drive has a fast 14ms average seek time and 3600 RPM rotational speed in a one inch design.

- | | | | |
|-------------------------|-----------------------------|---------------|---|
| Disk-Stor 210MB | • 210MB, 1-inch high | \$SAVE | Disk-Stor includes all the hardware, software and documentation necessary for quick and easy installation. Backed by a 2-yr. warranty and toll-free support |
| | • Average seek time of 14ms | #782557 | |
| Disk-Stor 540MB | • 540MB, 1-inch high | \$SAVE | |
| | • Average seek time of 12ms | #818955 | |
| Disk-Stor 810MB | • 810MB, 1-inch high | \$SAVE | |
| | • Average seek time of 12ms | #856662 | |
| Disk-Stor 1080MB | • 1080MB, 1-inch high | \$SAVE | |
| | • Average seek time of 12ms | #856654 | |

Seagate Hard Disks
 ST3290A IDE 260MB
 Seagate's ST 3290A puts speed, performance, and reliability into your machine. Offers 84K data buffer, power management features, and more.

- Formatted capacity of 260MB
- Sea Cache, Read-Ahead Data Buffer

\$SAVE #679688

Seagate ST3365A IDE 520MB
 Seagate's ST3365A offers 256-Kbyte segmented cache, 12ms average seek time, in a flexible, 3.5-inch low profile drive.

- Formatted capacity of 526MB
- Sea Cache, Read-Ahead Data Buffer

\$SAVE #684001

Maxtor Hard Disks
 7546A 546MB
 Maxtor's 7546, 1-inch high, hard disk drive offers a quick 13ms access speed and 256K cache! Certified Novell Network.

- 1:1 interleave
- Low power consumption
- 100% surface mount technology
- 2-year warranty

\$SAVE #782654

Maxtor 7345A 345MB #648048 **\$SAVE**

Disk-Stor 340MB Portable Hard Disk
 Really portable! Really fast!

Now you can move a portable hard drive from one machine to another in seconds by connecting through the parallel port on your computer. Add 340MB to your system or use it with a notebook computer. It weighs only 4 lbs., and comes with its own cable and software.

\$429 #819011

Sony 3.5" 1.44MB Floppy DiskDrive

Sony's 3.5" floppy drive offers a 1.44MB capacity with high-speed access. It also has a 5.25" chassis for an easy fit in most any desk-top PC's.

\$79.95 #568881

Installation additional **SONY.**

1.44MB 3.5" Floppy Drive

Affordable 1.44MB standard 3.5" floppy drive fits in a 3.5" bay, or you can add our 5.25" frame kit for a large bay.

\$45.95 #753012

Installation additional

1.2MB 5.25" Floppy Disk Drive #573005 **\$59.95**

Teac Combo Floppy Drive

Get convenient access to all kinds of software applications and save a drive bay in your computer with this half-height dual floppy drive. It contains both 3.5" and 5.25" floppy drives in the space normally taken up by a single drive so you can have access to both high and double density disks in both PC floppy configurations.

\$129.95 #792143

TEAC

"Back Pack" 5.25" Floppy Disk Drive

• Plugs into your parallel printer port with no interface cards to install so you don't lose print capability

• Install it on computers that don't have a slot available

\$189 #563411

BackPack 3.5" FD #563429 **\$179*** MicroSolutions Computer Products

tape back-up systems

Conner Tape Drives—Tape Stor 250 Internal

This rugged and compact internal tape drive offers outstanding performance features, including a sustained backup rate of 4.5MB per minute—which means 250MB of data can be backed up in less than 60 minutes! Includes auto speed sensing, easy-to-use software and more!

\$159 #767400

Tape-Stor 250 Parallel

Get fast, reliable data storage, auto speed sensing, software, and more from this external drive!

\$349 #730501

Jumbo 250 Internal Tape Backup

High performance, Internal Tape Backup System from Colorado Memory

Get 250MB (125MB uncompressed) of tape backup capacity! The Jumbo 250 is network compatible, offers unattended backup, expanded memory and other fine performance features. Includes Colorado Backup for Windows and toll-free telephone support.

\$199 #503763

Get simple plug-and-play backup through your parallel printer port in 120MB or 250MB storage capacity

Colorado Memory's Tracker 250 External Tape Backup

Get 250MB capacity (125MB uncompressed) of reliable backup storage and the ease of plug-and-play installation. The Tracker 250 also reads to 8MB/minute. It also offers QIC-80 compatibility for data transfer.

\$399 #525584

Iomega Tape250 Internal

Install your 1" x 3.5" internal Tape 250 drive into standard 5.25" half height bays. Includes Central Point Backup software, software data compression.

\$189 #856211

Iomega Tape Accelerator

Double your data transfer rate inexpensively and cut your backup time in half!

\$69 #80507

Tape 250 Parallel Port

Make your data really portable with a tape drive that connects through your parallel port.

\$359 #80507

Jumbo 120 Internal #503771 **\$99**

Jumbo Accessories COLORADO MEMORY SYSTEMS, INC.

Ext. Kit Tape Port #504308 **\$29**

Ext. Kit XT/AT #504324 **\$114**

PowerTape 1100 Internal

Here's the perfect tape drive for those who have a substantial amount of data over 250MB but do not need a full 2.4GB. Secures 525MB of data uncompressed and 1.1 GB compressed.

\$699 #750067

PowerTape 2400 Internal

The PowerTape 2400 offers 1.2GB (gigabytes) of storage capacity that can grow to 2.4GB with data compression software! Provides a backup rate up to 18MB/minute. SCSI controller and more!

\$1099 #806162

removable cartridge drive

Bernoulli PC Powered

Offers 90 MB of powerful on-line performance with built-in backup that's ready to use! There's no restoring required! A FREE 90MB disk along with everything you need for installation is included. Plus, adding storage is very affordable.

\$369 #505537

Bernoulli MultiDisk 150 PC Powered

Here's the perfect storage solution for multimedia, image storage, large disk backup and archiving! The Bernoulli MultiDisk 150 drive can store up to 150MB of data on a single disk! That's 300MB using compression software! Has a fast 18ms, effective access time.

\$549 #605154

rewritable optical drive

Dynamo PC External 230MB

High quality, small size, low power consumption and competitively priced, this high performance 3.5" Magneto Optical Drive delivers nearly unlimited storage capacity. It's ideal for graphic artists, multimedia producers and document image managers. Offers a fast rotation speed, high 30ms access speed and 256K read ahead buffer!

\$915 #822023

Dynamo PC Internal 230MB Internal #831735 **\$865**

FUJITSU

ADD-IN BOARDS

co-processors • i/o • upgrades/accelerators • controllers • power supplies

Plug-in an Intel Math Coprocessor for maximum acceleration—Instantly speeds up over 2,100 business and engineering applications

Intel Math Coprocessors
80387 SX/25MHz 80387 DX/33MHz

This 25MHz math co-processor provides exceptional and sophisticated computing power for math intensive applications. Suitable for any Intel 386SX 16-25 MHz CPU. Includes a lifetime warranty and toll-free technical support.



\$79

intel
The Computer Inside



Run programs up to five times faster—Instantly with this 33MHz math coprocessor. Assured 100% compatibility with Intel CPUs. Suitable for all 16-33MHz 80387DX CPUs. Includes lifetime warranty.

\$89

Intel 80387SL (25MHz) for Laptops #57691 \$89

Expand your computer's peripheral capabilities

IO/AT Expansion Board
(2 Ser/1 Par)

Expand the peripheral capabilities of IBM PC ATs and compatibles. Provides two 9-pin serial ports and one 25-pin parallel port.

\$1997

All of the features and performance you need

SIDE-4 PLUS IDE Disk Controller

This powerful 16-bit, ISA bus interface supports two 16-bit IDE hard drives, both 3.5" and 5.25" floppy disk drives, supports 360KB, 720KB, 1.2MB and 1.44MB floppy disk drives, two serial ports, one parallel port and one game port.



\$2999

Acculogic

#612325

SIDE-4/VL \$8995

The affordable multiple drive controller

SIDE-3

IDE Disk Controller

This 16-bit, ISA bus interface supports two 16-bit IDE hard drives, both 3.5" and 5.25" floppy disk drives, and supports 360KB, 720KB, 1.2MB and 1.44MB floppy disk drives.

\$1999

Acculogic

#658534

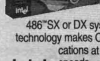
Give your power-hungry software more kaboom!

Intel SX2
OverDrive Processor

Single-chip processor upgrades maximize your PC performance.

Fly through your workload with the greatest of ease. Add an affordable OverDrive processor to your Intel

486 SX or DX system. Intel's clock-doubling technology makes OverDrive processor run applications at blazing speeds.



\$219

intel
The Computer Inside

#800953

Intel DX2 OverDrive DP90

#791917

\$269

Intel DX2 OverDrive DPR66

#796025

\$329

I/O Professional



A 9600bps or faster modem requires a 16550 UART to prevent the loss of data. This High Speed I/O Professional has

two individually configured high-speed serial ports and one bi-directional parallel port to support a printer, external and SCSI drives. (adapter required)

\$3995

SI-1132 + Controller #747485 \$29.95

Local Bus IDE & I/O #747496 \$48.95

IDE Professional #769025 \$58.95

SLIG, Inc. #747477

386 to 486
Upgrade
Microprocessor

Don't dispose of your old 386 computer. Plug-in the first single-chip microprocessor upgrade—the fastest way to a 486 computer. Effectively double your microprocessor speed with no other modifications.

\$239

CYRIX SX 20/40 #722512

Upgrades available from 386SX 20MHz to 386DX 25MHz

Power packed—built to last
Turbo-Cool 300

Turbo Cool power supplies offer 50% to 100% more power, built-in line conditioning, a dual stage EMI filter, variable speed fan and more!

\$15995

Star 205 Power Supply #850107 \$89.95

STD 220 AT Power #126466 \$89.95

PC POWER & COOLING, INC.

memory boards

Run Windows, OS/2, Novell, NETWARE, or UNIX on your AT-compatible.

RAMpAT!/OK

Satisfy the demands of memory hungry programs. RAMpAT! offers up to 16MB of memory, 16-bit ISA(PC/AT) bus compatibility, and is self-installing. Simply snap-in, plug-in and boot-up!

\$9899

Acculogic #505560

Rampat!-Plus OK #805678 \$129.95

ram

256K x 1 70ns #352112

256K x 4 70ns #352179

1MB 70ns DIP #699843

simms

256K x 9 70ns #434321

1MB x 9 70ns #434306

two 1MB x 9 70ns #753780

four 1MB x 9 70ns #753772

4MB x 9 70ns #435240

video and graphic cards

Dynamite Pro

Explosive 32-bit graphics acceleration for Super VGA and Windows. Increase productivity with faster scrolling, image redraws and more! Outstanding monitor performance gives you up to 16.7 million colors for incredible photo-realism.

\$17995

Dynamite Pro VLB 2MB #759876 \$229.95

Stingray VLB 1MB

The graphics accelerator for Windows, Windows NT and OS/2!

Here's the 1MB price/performance leader that surpasses standard VGA with more speed, more colors and higher resolution. You'll get faster Windows acceleration without compromising DOS performance.

\$12995

Stingray VLB 1MB #860411

Diamond Stealth 32
VLB 1MB

This DRAM based Windows and CAD accelerator provides 1280x1024 high resolution, up to a fast 90Hz refresh rate and 24-bit color capability for your PC. Power management features controls VESA compliant monitors power consumption to conform to Energy Star™ and VESA guidelines.

\$19795

Diamond Computer Systems, Inc. #855281

Diamond
Speedstar Pro

Accelerate Windows and DOS applications for superior graphics performance on your PC. Display up to 16.7 million colors at 640x480 resolution or 256 colors at 1024x768 with flicker-free refresh rates at 72Hz. Includes accelerated drivers for Windows 3.1, AutoCAD, WordPerfect 5.1, Word for DOS, Lotus 1-2-3, and OS/2v2.0

\$10995

Diamond ViperVLB 2MB #688306 \$399

Diamond Speedstar 64 PCI

Now you can get affordable graphics acceleration with advanced 64-bit processing. With 1MB DRAM, this high resolution card supports 1280x1024, 256 colors, non-interlaced. It also supports up to 16.7 million colors at lower resolution. The video card is upgradable to 2MB for more colors at higher resolution. Maximum refresh rate is 75Hz.

\$16995

Speedstar 64 ISA 1MB #855932 \$189.95

Basic VGA 800x600 256K #691972 \$34.95

SVGA 1024x768 512K #691964 \$49.95

Windows Accelerator 1MB #691956 \$99.95

ATI Graphics
Wonder

The affordable mach32, high-color graphics card accelerates Windows, Multimedia and OS/2 applications with enhanced drivers for applications and operating systems, and 32-bit display list drivers for AutoCAD and more.

\$13995

Graphics Wonder VLB #708282 \$139.95

STB Mach 512

Super VGA adapter features high-speed memory architecture, zero wait states, and enhanced screen to screen moves with full 256 colors at 800x600 at up to 72Hz refresh rate. 512K memory is standard, with full VESA compliance and a complement of application drivers for Windows, etc.

\$6495

Horizon VLB #691931 \$79.95

Horizon Windows Accelerator

Horizon VGA is a low cost, VESA compatible Windows accelerator for ISA PCs. Powerful standard features include no wait states, hardware cursor and switches installation. Supports up to 16.7 million colors at high refresh rates.

\$10995

STB Systems, Inc. #691949

KEYBOARDS

Enhanced AT Keyboard



From one of the largest suppliers of keyboard products

This 101-key enhanced AT keyboard has a trim case and saves desk space. It has the same key size and spacing as a standard keyboard. Includes one-year warranty.

\$34⁹⁵ NTC #65562

101-key Keyboard

A keyboard that saves money and space

This AT-compatible enhanced keyboard has a soft linear feel and tilt foot in a space saving, lightweight design. It also has a unique adjustable-length cable and is highly reliable with a 2-year warranty.



\$19⁹⁵ #691857

MSU MISUMI ELECTRIC CO., LTD. Keytronics PS/2 Adapter #471268 **\$14.97**

IBM 101-key Keyboard

A full-function keyboard with numeric keypad in a space-saving design. This easy-to-clean keyboard features function keys that allow you to perform commands with a single touch. Includes indicator lights and popular QWERTY key pattern.



\$59⁹⁷ #671081



IBM Professional keyboard #671073 **\$99.97**



NMB 'The Right Touch' keyboard

The touch typist keyboard features an exclusive curved keyboard design,

tactile bars on keys to locate the "home row", exclusive membrane keyswitch for quiet operation and advanced electronics to eliminate compatibility problems. Includes PS/2 Adapter.

\$29⁹⁵ #800430 NMB TECHNOLOGIES INC

MICE

Microsoft Mouse 2.0

Looks beautiful, fits the palm perfectly, and makes the Windows operating system easier to use.

A product of extensive research by ergonomic experts, the Microsoft Mouse stands apart from other pointing devices. It is one of the most comfortable pointing devices you can use. Improved software with many exciting features allows you to increase speed and task efficiency.



\$59⁹⁷ Microsoft

Serial #640607 PS/2 #640581

Microsoft Mouse 2.0

bus version #967846 **\$89⁹⁷**

Logitech MouseMan

A high performance mouse with uncompromising quality, superior software and design.

Offers true ergonomics from the combination of a mouse designed to fit your hand for long term comfort and unique software that allows you to reduce stressful repetitive motions. Working in Windows is easier than ever: cut, paste, or call up a task by pressing the second or third button, without pulling down menus.



\$49⁹⁵ Serial & PS/2 #423605

MouseMan Lefthanded #416859 **\$54.95**

MouseMan Bus #416867 **\$74.95**



Serial Mouse

This is the serial mouse for the budget minded. Fully Microsoft and Mouse Systems compatible. Includes cable, software driver with user adjustable tracking speed.

\$9⁹⁵ #562439



Dexxa Mouse

You'll get precision tracking in a mouse that's built for long life. Includes pre-programmed menus, three buttons, cursor sensitivity control. Includes adjustable resolution feature. Made by Logitech.

\$19⁹⁵ #445429



Logitech First Mouse

Just point and click for access to the power and productivity of your PC. Designed for first-time users, First Mouse is easy-to-install and handle, with enough power to meet your growing needs.

\$29⁹⁵ #429191



TRACKBALLS

Expert Mouse 4.0



The next generation of Kensington's award-winning Expert Mouse trackball. Advances in trackball technology—introducing the Brilliant Cursor™ and Slow Cursor™ commands—give you smoother, superior cursor control. Windows compatible software offers advanced acceleration, programmable mouse-button commands, application sets, plus user-programmable features. Improved hardware features top-quality components in a space-saving design.

\$104⁹⁵ #674580

KENSINGTON.

Logitech TrackMan II

High precision stationary mouse. Offers true ergonomics from the combination of a mouse designed to fit your hand for long-term comfort and unique software that allows you to reduce stressful repetitive motions to a single click of a mouse. Enhanced MouseWare software also lets you personalize your cursor color, size, speed and orientation to meet your individual needs.

\$89⁹⁵ Serial & PS/2 #480913



Premium Mouse

Comfortably hold this mouse without feeling fatigue after extended use. Opto-Mechanical design for maximum performance and reliability. Easy installation and operation.

\$19⁹⁵ #644120



New Mouseman Cordless

This premium mouse combines the convenience of cordlessness with ergonomic comfort. No cord to tangle and catch on anything, and a comfortable shape to fit your hand, so things get done more quickly.

\$99⁹⁵ #667796



Two Button Mouse

The 2 button mouse from Logitech promises to be the guaranteed compatible mouse for PC computers. It's a serial mouse that's easy to use, and provides 400dpi resolution for more cursor motion with less mouse movement.

\$19⁹⁵ #771923



IMSI Pet Mouse

The perfect pointing device for any graphics or mouse driven software. The pet mouse allows you to work more quickly, without complicated keyboard commands.

\$24⁹⁵ #817510



Genius Clix Mouse

The multi-application, no nonsense mouse is designed for the user who needs dependability. This three button mouse runs any chosen mouse driven application.

\$19⁹⁵ #486183



Thumbelina Portable

The smallest, lightest mouse available; perfect for laptops and notebooks. Microsoft compatible, it will have you racing through Windows in no time.

\$39⁹⁵ #474510



TrackMan Portable

Power, convenience and durability in a product that's ideal for portable systems. Hold it in your hand or attach it to either side of a portable keyboard.

\$54⁹⁵ #42857



Microsoft Ballpoint Mouse

The ideal pointing device for your portable computer! Provides superior accuracy when using the Windows operating system and is an outstanding choice when space is limited.

\$89⁹⁵ #799734



Trackball

This ergonomic, high-performance trackball is designed using quality micro switches for long life. Conforms to Microsoft or Mouse Systems mode with just a side of the switch.

\$29⁹⁵ #05097



First Trackball

The premier designer and manufacturer of pointing devices brings you a space saving alternative that's easy to use. The First Trackball is a serial version for first time users as an alternative to a mouse, or for experienced users looking for a more affordable device.

\$49⁹⁵ #771915



SCANNERS

ScanMan Model 32

with OmniPage Direct

Converts images to 256 shades of gray with included GrayTouch™ software.

An excellent all-around scanner, ScanMan model 32 recognizes 32 grayscales and includes GrayTouch™ Image Editing Software, which allows you to blend lights and darks into 256 shades of gray. Scans photos, art, and text beautifully to add pizzazz to all your printed documents.

\$149⁹⁵



HP ScanJet IIcx

Your complete solution for color, grayscale and text scanning.

It processes images at up to 1600dpi with enhanced resolution (400 dpi optical resolution) for crisp, sharp images. Includes easy to use image editing software! An optional transparency adapter allows you to integrate film, negatives, and other transparent media, and an optional document feeder allows you to scan up to 50 pages with the same effort it takes to scan one page.

HP ScanJet IIP

Includes Calera WordScan 3.0 OCR software #47703 \$499



ScanMaker IISP

Vibrant, saturated true color can be yours with the introduction of this premium color desktop scanner from Microtek. Brilliant, 24-bit color, 8-bit grayscale and black and white imaging is provided in resolutions up to 1200 x 1200dpi. DCR™ (Dynamic Color Rendition) technology calibrates your scanner to the industry standard color calibration target to obtain the most accurate color calibration/correction system available on desktop scanners.

\$799

MICROTEK

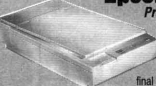
Better Images Through Innovation.

ScanMaker IIG

#819193 \$399 #819219

Epson Action Scanner

Professional quality color scanning made easy.



Impressive 600 dpi, 24-bit color scanning produced in one single pass. Exclusive Epson TruePass technology gives you better scans with more accurate color. Built-in image processing allows you to adjust images in preview mode before you.

#711010

EPSON

final scan to save you time and improve productivity. This complete kit—scanner, Picture Publisher software, interface board and cable, gives you quality scanning that is affordable and easy-to-use.

\$849

IBM Easy Options Color Scanner

Scan color photos, art and text in a single pass.

Tri-chromatic color scanning in one single pass at a maximum of 600 dpi resolution is available from IBM. This Easy Options scanner includes interface cable, power cord and OCR software to turn scanned pages of printed words into editable text.

\$499



ScanMan Model 256

with OmniPage Direct

Scanning excellence and powerful image editing software!

ScanMan achieves 256 true shades of gray. Create superior quality black and white line art and photographic images. Do basic photo and image retouching with Ansel image editing software. OmniPage Direct OCR Software included at no extra charge with the model at 256.

\$229⁹⁵



ScanMagic 256

for Windows

256 grayscale scanning at 100-400 dpi

Designed with the recreational scanner user in mind, this package focuses on ease-of-use. Includes the image editing software PhotoMagic LE.

\$139⁹⁵



Mustek

#667873

Color Artist Pro for Windows #667857 \$249.00
ScanMagic Color #772442 \$249.95

JOYSTICKS

Gravis Analog Pro Joystick

The Analog Pro incorporates the specialized features of joysticks designed for flight simulation programs and for action arcade games into a multipurpose joystick. Includes all the features you need to play like a pro. Free calibration and test software, plus a copy of the arcade hit Commander Keen.

\$34⁹⁷

#556852



PC Game Pad

A combination hand held control pad and table top joystick, the Gravis PC GamePad will operate with all IBM and compatible game cards. Ideally suited for arcade and

directional control style games.

\$19⁹⁵

#444091

GRAVIS

JetStick

The basic beginner's joystick provides quality performance at a low price, yet still outperforms the competition. It lets you take command of any jet, helicopter or racing simulation. Its programmable and audio feedback buttons provide quicker response, and its elevator and trim buttons allow for better accuracy and greater realism.

\$24⁹⁵

#777151



Mach I

Perfect for the active gamer and the price conscious consumer, the Mach I joystick is among the lowest priced joysticks in the industry and has all the features of top line models.

\$17⁹⁵

#428227



Mach III #426452 \$29.95

Flight Stick

Looks and feels like the real thing

Devastate the enemy during aerial combat by putting weapon controls at your fingertips for quick reaction

times. Your flying skills will improve, no matter your level of experience.

#426429



Flight Stick Pro

The ultimate battle stick for computer pilots. Designed by a pilot and an airplane builder, Flightstick's top-of-the-line ergonomic design gives you true, professional control of your mission.

With trigger and three firebuttons you'll have the full range of combat features.

#681882



Virtual Pilot

Fly in the face of reality with an airplane yoke that works exactly like the real thing. Virtual Pilot mounts easily to your desk, plugs into your computer, then tips you out of your seat and into the air.

\$69⁹⁵

#573717



Flight Control System

A highly realistic piece of hardware designed for advanced software. It has four push-buttons and a four way switch for controlling functions on the craft, and works as a two-button joystick with all simulators and has full function support in many versions.

\$79⁹⁷

#556647



Flight Control System #593731 \$129.95
Rudder Control System #593723 \$149.95

Warrior 5

Ergonomic bi-grip offers maximum control. Other features include free-floating and auto-centering modes, two fire buttons, high-speed autofire capability, and four stabilizing suction cups. Also: x-axis y-axis trim control switches; 6-foot cable with 15-pin connector. Compatible with IBM PC, XT, and AT.



\$9⁹⁵

#257386

QuickShot



NEW!

Super Warrior Joystick

The Super Warrior joystick features 4 firing buttons, control and QuickShot calibration software for

Windows. It has a non-skid rubber handle pad and suction cups for stability during play.

\$19⁹⁵

#823245

QuickShot

Joystick Adapter Cards

Smart Game Card #571091 \$19.95
CH Game Card III Auto #482835 \$29.95

UPDATE YOUR PC WITH POWERFUL MULTIMEDIA PRODUCTS

cd-rom drives • multimedia upgrade kits

Game Blaster CD 16

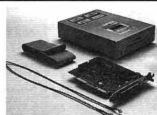
For realistic arcade action, excellent high resolution graphics and awesome digitized sound effects you've got to get the Game Blaster CD. It includes Creative Labs double-speed CD-ROM drive, Sound Blaster™ 16 audio card, high performance joystick and a pair of well-shielded amplified PC speakers.

\$429⁹⁵

#799924



CREATIVE
LABS, INC.



IBM Double Speed CD-ROM Drive

Includes an internal 250ms access, double-speed CD-ROM drive that supports 300K/sec data transfer rate. It holds at least 650MB of images with multiresolution Kodak PhotoCD capability. Listen to your favorite compact disks on the built-in headset with volume control. For real

enjoyment that's both practical and entertaining, pick up an Easy Options CD-ROM drive today!

IBM

\$169⁹⁵

#737494



Multimedia upgrade kit with a better software selection SoundBlaster Discovery CD 16

This is the multimedia starter kit that is perfect for entertainment and educational opportunities. It comes with Sound Blaster 16 audio card, double-speed CD-ROM drive, CD Blaster and stereo speakers. Greiner's Encyclopedia, Aldus Photostyle LE, Soundo LE, Talking Parrot, WaveStudio, Color Icons and a number of other CD titles round out the updated selection.

\$349⁹⁵

CREATIVE
LABS, INC. #812636

perfect for entertainment and educational opportunities. It comes with Sound Blaster 16 audio card, double-speed CD-ROM drive, CD Blaster and stereo speakers. Greiner's Encyclopedia, Aldus Photostyle LE, Soundo LE, Talking Parrot, WaveStudio, Color Icons and a number of other CD titles round out the updated selection.



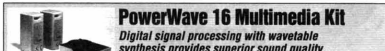
Family Deluxe Multimedia Kit

This value-packed kit provides everything you need to bring the world of multimedia to your family. With a 320ms double speed CD-ROM drive, an award-winning Media Vision 16-bit sound card, stereo speakers, and nine great multimedia titles, this is a great way to get into the world of multimedia.

\$349

#818556

MEDIA VISION



PowerWave 16 Multimedia Kit

Digital signal processing with wavelable synthesis provides superior sound quality.

Experience true multimedia when you add this MPC2 compatible, 250ms access, double-speed drive that incorporates multiresolution Kodak PhotoCD technology, a 32-voice sound card with 44MHz digital signal processor, MIDI interface and 2 channel stereo amplifier with speakers. Far superior to FM synthesis, it adds instrumental sound and realistic effects for a whole new experience in audio playback.

\$329⁹⁵

#793026

IBM



Premium Deluxe Multimedia Kit

This deluxe kit includes the best multimedia hardware and software available today. It combines the 180ms double speed Media Vision Portable CD-ROM Player, an award-winning Media Vision 16-bit sound card with the new 3D sound, stereo speakers, headphones, a microphone, and fifteen hot CD-ROM titles.

\$549

#824060

MEDIA VISION

sound boards



Sound Blaster Value Ed.

For what you'd pay for a single CD, you get an entire sound kit!

Great for your favorite games or education titles:

- 11-voice FM synthesizer
- MIDI interface
- Built-in amplifier, joystick port and microphone jack
- Includes Lemmings™ and Indianapolis 500, The Simulation™

\$59⁹⁵

#799955

CREATIVE
LABS, INC.



Full featured stereo sound board only a little better than average

Includes text-to-speech synthesizer, 11-voice FM music and support by the largest CD-ROM

library! Your family will enjoy the latest titles—like Lemmings, Talking Scheduler and others.

\$79⁹⁵

#799957

CREATIVE
LABS, INC.

CD-Quality 16-Bit Digital Audio

Pro Audio 16 Basic

Stop compromising on the audio in your PCI Pro Audio 16 Basic delivers true 16-bit stereo sound, a multimedia mixer, 4-operator, 20-voice stereo FM synthesis, and a selection of software. This is your complete multimedia solution.

MEDIA VISION

\$59⁹⁵

#738568

Pro Audio Spectrum 16 #513465

\$99.95

Pro Audio Studio 16 #762674

\$129.95



Sound Blaster 16

The latest sound technology delivers professional CD-quality stereo, and combines a wide array of professional software in a package that will provide superb sound effects and spirited music equaling any digitally mastered CD with support for selectable sampling rates, 16-bit, 8-bit recording and playback.

\$99⁹⁵

#832493



Sound Blaster 16 MCD

The true 16-bit digital audio card with WaveBlaster upgrade option and ASP upgrade option includes a sound card, microphone, audio cable and an array of sound software to enhance all your multimedia applications. It features a multiple CD-ROM drive interface for Sony, Panasonic, and Mitsumi CD-ROM drives, as well as dynamic filtering, selectable sampling rates and more.

\$149⁹⁵

#866061



Sound Blaster 16 ASP MCD

The enhanced FM 20-voice, music synthesizer features 16-bit stereo sampling and playback, a digital mixer, CDROM and MIDI interface and audio compression. It's upgradable to Wave Blaster and includes an Advanced Signal Processor. It can make use of Voice Assist Speech Recognition System, text to speech, voice annotation, and OLE.

\$189⁹⁵

#849018

CREATIVE
LABS, INC.

Sound Blaster 16 SCSI #840538

\$189.95

Sound Blaster 16 ASP SCSI #843672

\$229.95

Voice Assist #725549

\$59.95

SoundMan Wave

Why settle for computer generated sounds when you could have full 16-bit stereo using recorded sounds of real musical instruments? Wave table synthesis is the breakthrough technology that makes it possible.

\$214⁹⁵

#791905

LOGITECH

Portable Sound Plus

Perk up your portable with true 16-bit CD quality stereo that plugs directly into the parallel port of your laptop. It's easy to add full digital signal processing technology to your presentations with high fidelity microphone and speakers.

\$159⁹⁵

#631929

Windows Sound System

The Microsoft Windows Sound System includes a 16 bit stereo sound board for CD-quality sound, a microphone and stand, headphones, diskettes and manuals. Best of all, it is Sound-Blaster compatible.

\$149⁹⁵

#706127

Microsoft

Microphone and software #706226

\$59.95



UltraSound

The 16-bit ultimate sound solution features a 32 voice synthesizer, that produces true 44.1 KHz CD quality music and sound, with variable sampling rates, advanced wavelable synthesis, digital mixer and full MIDI and SoundBlaster support.

\$129⁹⁵

GRAVIS

#514836



VGA to TV

TV Gamer Plus

Just plug it in and the ultimate computer gaming experience is yours! Get ready for your most amazing adventure ever with TV Gamer Plus. Play computer games like they were meant to be seen: bigger and better on your TV. See all your finishing moves up close and personal. Can even be used with wide screen and projection TVs for a truly AWESOME gaming experience.

SIIG, Inc.

\$169⁹⁵

#771949



music • midi

Cakewalk Home Studio

You don't have to be a skilled musician to create your own music. Cakewalk Home Studio is a multi-track MIDI sequencer for Windows that allows you to record, edit, play back and print music from your PC.

\$114⁹⁵

#832338

Midi Mate

MIDI is a standard digital communications protocol that connects the new generation of MIDI instruments with computers to create an exciting fusion of sound and music.

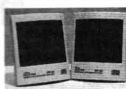
\$47⁹⁵

#735068

Sound Blaster Midi Kit #569503

\$64.95

SPEAKERS


Computer Speaker System CP-55

These well-shielded stereo computer speakers are designed for use with computer monitors, provide full range sound output, wide frequency response from 100Hz to 15 KHz, nominal impedance of 8 ohms and are amplified for maximum input of 2 watts.

\$4.95
#73006

Sony Computer Speakers

Sony presents these high acoustic, full-range bass reflex stereo speakers, amplified with 3W power for use with multi-media systems for free-standing or mounted use. Frequency response is a generous 150Hz - 20,000Hz, with clear, true sound output.


\$69.95
#128238

SONY Sony Amplified Speakers #73254 **\$99.95**

Yamaha Powered Speakers YST-M10

Yamaha is a well-known name in sound technology, providing high frequency, extended bass response stereo speakers, magnetically shielded for use with computer monitors and TVs, and a frequency response of 80Hz to 20KHz. Output is 10 watts of power per speaker.

YAMAHA
\$79.95
#742068

Micro Speakers Offer Great Stereo Sound Amplified Speakers CS-150

Bring the finest in stereo sound to your Mac or IBM compatible with these feature-rich micro speakers. Designed for use with computer and TV switches, they are magnetically shielded. Each has individual volume controls, bass boost and treble boost boosters and built-in power boosters.

Labtec **\$19.97**
#408576

Speakers Enhanced	#66907	\$29.95
AC Adapter	#49800	7.95
6' extended cable	#13372	3.95


Amplified Speakers CS-800

- Speaker: 3 1/2" high quality speaker
- Max output power: 5 watts
- Frequency response: 50-15,000Hz
- Speaker Impedance: 8ohm
- DC adapter jack: DC 9v jack (External power output)
- Includes AC/DC adapter 9 volt, 1000 mA-UL approval
- Bass and treble boost

\$39.95
#820823

Labtec

Hi Power 2-Way Stereo Speakers	#620831	\$79.95
CS-1400 Stereo Speakers	#744383	\$107.00

Microphone

For use with computers, home stereo equipment and portable cassette players.

\$9.95
#559427

Labtec

Headphone

Mid-size headphone for computer use with 40 mm. speakers and volume control.

\$12.95
#49618

Headset w/ Microphone #75811 **\$14.95**

CD-ROM SOFTWARE
home/personal • reference

See page 42-43 for entertainment and education CD-ROM titles.

Compton's Interactive Encyclopedia

There is a whole new world of information available to you in a way you've never seen before! The text and graphics of the 26-volume encyclopedia is contained on a single CD-ROM disc. Plus, there are thousands of drawings and photos, an interactive world atlas, enhanced sound, video and more!

\$79.95
#87712

Street Atlas USA

Get a detailed map of any city in the USA by typing in a zip code, city, name or phone number! Offers close-up or distant views which can be printed in full color.

\$99.95
#700250

Global Explorer #625699 **\$64.95**

AutoMap Streets

Automap Streets is the most cost effective way to buy high quality, up-to-date street level maps. Use it to locate customers, plan to visit friends in a new city, run a dispatch operation that needs the exact location of an address, or just to see your neighborhood on the map. Saves time, money and hassle.

\$34.95
#852095

Automap Road Atlas

Travel the North American continent with full-color maps of the U.S., Canada and northern Mexico. Detailing over 400,000 miles of toll roads and freeways, Automap can take you to over 120,000 places and give you estimated time and distance for your style of driving.

\$54.95
#789842

Great Restaurants

A multimedia gourmet guide to the country's best restaurants, wineries and microbreweries. This informative gourmet guide shows you where to wine and dine wherever you travel, with over 4,000 color photographs and menus. Multiple search allows you to select by state or city, or locate them on highlighted regional and local maps.

\$24.95
#881070


Encarta

This multimedia encyclopedia is the essential reference work that also makes learning fun. Putting a world of knowledge within reach, it includes up-to-date articles and high resolution graphics, enlightening animations, stunning video clips and resonant digital sound bytes, combining its rich, interactive features to inspire curiosity, and turn abstract information into an engaging personal experience.

\$89.99
#714766

Microsoft

Select Phone

This database has it all, with unlimited downloading and quarterly updates with cross-matching to the U.S. Postal Service change of address. Auto-dial from the database with any Hayes compatible modem.

PHONEDISC **\$169.95**
#860445

Direct Phone #857003 **\$84.95**
Free Phone #860452 **\$22.95**
Digital Directory Residential

Eliminate the need for Directory Assistance operators with your very own White Pages directory on CD-ROM, containing published phone listings for almost every U.S. home on two disks.

\$49.95
#843433

Digital Directory Business #810095 **\$48.95**

Cinematica '94

Every movie lover wants to explore the magic behind the movies, from classics to new releases, with capsule summaries, photos and sound clips of memorable scenes just as they happened on the big screen.

\$64.99
#714725

Print Shop Deluxe CD Ensemble

The entire printshop is now available on CD-ROM, including Printshop Deluxe, Printshop Companion, Business Graphics, Sampler Graphics and Comic Characters Amazing Animals Graphics Folio, plus 50 bonus graphics. New features in version 2.0 include 650 new graphics, the ability to import PhotoCD images, new label projects, new name and address list merge for Print Shop projects.


Broderbund **\$79.95**
#863821

King James Bible

Poetic inspiration, stories and parables come alive in this multimedia King James Bible. Take inspiration from the common themes that course through the scriptures from Genesis to Revelation, from the beginning of time, to the final cataclysmic events.

\$19.95
#826529

Art Gallery

The National Gallery, London, founded 1824, houses more than 2000 pictures including works from Monet, da Vinci, van Gogh and Michelangelo. Take a guided tour of this inspiring collection, complete with sound and animation. Explore the lives of the artists through detailed biographies that bring the world they lived in to life.

\$59.95
#739789

Microsoft

Mayo Clinic Family

Participate in your family's health care education with this interactive CD-ROM. It will help you become an intelligent health care consumer by taking away the confusion from the increasingly complex world of medicine. State-of-the-art multimedia color illustrations, animations, video, audio and narration bring the subjects to life.

\$45.95
#789745

Home Medical Advisor Pro

You'll get expert advice on frequently asked medical questions. You'll see illustrations and fully animated digital video that explain medical conditions and procedures in ways that best help you understand. Eliminate unnecessary visits to the doctor for minor problems. Gain a greater understanding of the condition and treatment when health care is required.

\$47.95
#789875

GRAPHIC DESIGN and CAD SOFTWARE

drawing • ocr • cad • painting & illustration • graphic utilities

CorelDRAW! 5.0

The best graphics drawing package on CD-ROM!
New CorelDRAW! 5.0 includes enhanced drawing, image editing, Ventura Publisher, presentation, charting and morphing capabilities. Beginners love it for its ease of learning. Design professionals count on its flexibility and advanced features. Precision drawing power, outstanding text handling and valuable libraries of fonts, symbols and clip art images allow you to create illustrations, newsletters ads and brochures easier than ever.

\$489⁹⁹
CD #831990



CorelDRAW! 4.0 3.5"/CD #852925 **\$399**
CorelDRAW! 3.0 3.5"/CD #509174 **\$139.99**

WordScan® Plus 3.0 for Windows

OCR accuracy has been greatly improved with this latest version of WordScan Plus, incorporating Adaptive Recognition Technology™ and HP's AccuPage 2.0 technology to provide the greatest accuracy on the broadest range of faxed and scanned documents, even text as small as 4 points and skewed or degraded documents. Includes a new Chameleon Toolbar™ that emulates the toolbars of your favorite office suite for immediate proficiency.



\$449⁹⁹
#806558

Adobe Photoshop for Windows

This powerful program sets the standard for desktop image design and production. Create your artwork, then correct and retouch color or BW scanned images, prepare color separations and output. It's the world's leading photo editing tool.



\$599
#79022

Aldus FreeHand 4.0 for Windows

Whatever the project, you can get the job done with Aldus FreeHand! Aldus FreeHand 4.0 unites a complete set of illustration, page design and production tools into a versatile package that fits easily into your daily workflow.



\$429⁹⁹
#856071

Visio 3.0 for Windows

Visio is the business drawing package for people whose business isn't drawing. It combines advanced graphics technology with the ease of drag-and-drop to make it easy for anyone to create professional-quality business drawings and diagrams. Just drag and connect pre-drawn SmartShapes—Visio does the rest. It's that easy.



\$129
#879577

Visio Express for MS Office

#879551 **\$49.99**

Drafix CAD for Windows, Comp. Upg.

#824094 **\$99.00**

Image Pals 2.0 for Windows

#824052 **\$127.99**

WordPerfect Presentation

#581520 **\$329.97**



\$139⁹⁹
#672113

The Complete Scanning Tool Kit Scan • Read • Fax • Edit OmniScan

Take advantage of the world's best hand-held scanner to handle your business or home scanning needs! Plus, OmniScan offers tools to manage, share, and enhance your scanned information. Includes the OmniScan hand-held scanner, OmniPage Direct, Image Assistant™ and FaxMaster.

OmniPage Professional 5.0

The standard for optical character recognition (OCR) software has been improved to make text recognition more accurate and easier to use than ever, even under adverse conditions. Hard to read pages are recognized using its Compound Neural Network System™ that delivers superior accuracy for low resolution documents. Language Analyst™ verifies word context to minimize the number of character substitutions to improve word recognition. It handles 6 to 72 point text, several text styles, has built-in TWAIN support, and recognizes 11 foreign languages.



\$499⁹⁹
#905309

OmniPage Direct 2.0 for Windows

#905309 **\$99.99**

TurboCAD 2.0 for Windows

Here is the fastest, easiest way to draw! This new version will have you creating furniture layouts, landscape designs, charts, technical diagrams and other professional drawings in just minutes! Pull-down menus guide you through complex functions.



\$84⁹⁹
#818112

Autosketch for Windows

This powerful tool combines the power of CAD tools with the simplicity of Windows so you can easily turn your ideas into precise illustrations. Now includes more than 2000 scaled drawings of objects, a \$500 value — FREE!



\$239⁹⁹
#873506

TurboCAD 3.2

#818036 **\$84.99**

Key CAD Complete for Windows

Design absolutely anything with engineered precision. It's easy to develop top-to-bottom demands of a contractor, engineer, landscaper, interior designer or electrician. Start with an idea, a dream, design or concept. Add your own personal touch. Once you have a precise design, turn it into reality with the help of your local contractor.



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#817122

Floripian Plus for Windows

#816850 **\$59.97**

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#816892 **\$89.95**

Typereader for Windows

#641128 **\$429.00**

Paintbrush Photo Library

#811771 **\$44.99**

Micrografx Designer 4.0

#801191 **\$569.00**

Jurassic Art for Windows

#816785 **\$36.99**

Key Map U.S.A.

#803437 **\$25.99**

PhotoFinish 2.0

#372221 **\$99.99**

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#509166 **\$99.99**

HiJaak Pro v2.0 for Windows

The ultimate graphics tool to view, convert, enhance, capture, enhance, scan and print graphic images. Get state-of-the-art features and superior conversion technology all in the Windows environment.



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#860735

HiJaak '99.99

#705673

Home

Transform your remodeling and building ideas into precise, detailed working plans that are accurate enough to be used in the actual construction. It's easy-to-use with self-guiding menus and symbols.



\$39⁹⁹
#673079

AUTODESK Kitchen/Bath Deck Landscape

#673087 **\$39.99**
#673096 **\$39.99**
#673103 **\$39.99**

Generic CADD 6.1

Version 6.1 of this powerful 2D design and drafting tool reads and writes AutoCAD.DWG menu options, a print manager and more.



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#790303

DesignCAD 3-D 4.0

#730202 **\$278.99**

DesignCAD 2-D 6.0

#730201 **\$199.99**

Land Design for Windows

#820420 **\$59.99**

PROGRAMMING / LANGUAGES

compilers • languages • tools • utilities

The Best C and C++ Compiler and Visual Tools Turbo C++ for Windows

This visual editor will boost your productivity providing the best compiler and visual programming tools for faster, easier object-oriented development of powerful C and C++ applications. Includes user interface code generation, templates, 3-D controls, 100% ANSI C standard, context-sensitive help, and much more!



\$74⁹⁵
#690704

BORLAND Turbo C++ for DOS

#705790 **\$74⁹⁵**

Powerful Development System To Create Graphical Applications Microsoft VisualBasic Pro v3.0

The standard edition of this event-driven programming system offers additional controls, toolkits and references to create powerful applications. The visual design tools provide the easiest, most economical way to develop applications that take full advantage of the Windows graphical environment. This personal edition is sure to increase productivity.



\$359⁹⁹ Microsoft

Microsoft Visual C++ for Windows Borland C++ 4.2

The integrated, visual environment of Microsoft Visual C++ makes developing for Windows easy, fast, and fun! You'll be productive immediately, designing user interfaces, inspecting and debugging code as you write it, discovering the power of reusable code!



Borland C++ 4.0 is the most customizable, feature-rich, and fully integrated C and C++ available! Application development is fast and easy with all of the new productivity tools, like SpeedMenu, Summary Pages, DialogExpert, and many others!

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#708305

\$399⁹⁵
#878026

Microsoft Realizer 2.0 for Windows & OS/2

#705484 **\$94.95**

Visual Basic w/book

#807560 **\$139.99**

Borland C++ v4.0, CD-ROM for Windows

#752826 **\$399.95**

Symantec C++

#782101 **\$99.99**

Turbo Pascal 7.0 with Objects

#705259 **\$119.97**

Turbo Pascal for Windows

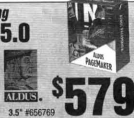
#708815 **\$119.99**

DESKTOP PUBLISHING and PRESENTATION SOFTWARE

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The Leader in Desktop Publishing Aldus PageMaker 5.0

More than 100 new or enhanced features make version 5.0 a super-precise and powerful writing, design and production tool. Offers incremental rotation of text and graphics and much more!



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Harvard Graphics 2.0 for Windows

Bursting with features for more effective presentations, with OLE support.

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Freelance Graphics for Windows

Create outstanding presentations quickly and easily. Includes templates.

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Harvard Graphics 3.0 for DOS

\$399.97 #706093

Freelance Graphics for DOS

\$349 #470956

PowerPoint for Windows

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Aldus PhotoStyler 2.0

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Create first-class publications fast! Microsoft Publisher for Windows

You'll find all the tools, including those for page layout, text handling and graphics, that you'll need to produce professional-looking printed documents effortlessly. Includes design guides for step-by-step instruction and more.

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PrintMaster Gold for Windows

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WordPerfect Presentation 2.0 for Windows

WordPerfect gives you all the tools you need to make compelling letters, documents and presentations!

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Compuwerk Publisher for Windows

\$29.99 #730150

Announcement for Windows

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101 Great-looking, easy-to-use fonts TrueType for Windows

101 of the best TrueType fonts to create great-looking documents fast and easy! Access any of the fonts using standard WordPerfect commands. Can all be used with any Windows 3.1 application, too!

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Bitstream 500 Font CD for Windows

A superior collection of TrueType and PostScript fonts for home or office. These fonts were selected by publishing experts to give you a wide range of multi-purpose and specific fonts for every occasion including business, school, home and entertainment.

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Typecase Budget for Windows Vol. I

Add variety to your printed message with this selection of over 100 fully scalable TrueType fonts that are specifically designed for compatibility with Windows 3.1 or later versions.

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Swift \$99.99

Right now PC Keys is FREE!

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TrueType Font Pack for Windows

Choose from 44 scalable fonts to create beautiful, high-quality documents. They're easy to install and easy to use because TrueType technology is built into Windows 3.1! The TrueType Font Pack can be used with all printers and with any of your Windows-based applications!

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TrueType for DOS

Make your documents look great with 35 TrueType fonts, scalable to any size. You'll also find thousands of dazzling special effects that will add visual excitement to any printed work. There's nothing to learn, everything is done by "point-and-click" operations.

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Type Set Value Pack

\$44.95 #709014

True Effects for Windows

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Primetype for WordPerfect

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Star Trek Font Pack for Windows

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Fonts on the Fly

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MicroLogic Software

ABC Flowcharter 2.0 for Windows

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Powerpoint 4.0 for Windows

Version 4.0 has everything you need to turn your ideas into powerfully convincing presentations.

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Flow Charting 4.0 for Windows

Flowcharting 4.0 sets the standard for drawing and designing flowcharts and diagrams.

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ABC Flowcharter 2.0 for Windows

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Organizer Plus 2.0 for Windows

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WORD PROCESSING SOFTWARE

word processing • spelling • style checkers

The best word processor for Windows is even better with customizable features to meet your every need



WordPerfect 6.0 a for Windows

This new version offers a dynamic, customizable interface so you can finish your document in fewer steps by putting all of the tools you use most right on your screen. There's also 45 ready-to-use document templates and sophisticated, but easy-to-use drawing tools that allow you to add graphics to your document without needing a separate drawing program! Plus you'll get powerful, built-in spreadsheet, table and chart capabilities, a variety of graphic images, borders and outstanding file management.

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Professional Write

Here's a time-saving word processor that includes an integrated grammar checker for style and punctuation, spell checker and direct Lotus 1-2-3 importing.

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PFS:Write

Get the ease and power of WYSIWYG word processing, like viewing headlines in different sizes or placing clip-art graphics. Also includes dictionary and grammar checker. Low memory requirements means it will even run on XT and 286 systems.

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Ami Pro 3.1 for Windows

With just one-click ease you'll have access to powerful word processing features like a customizable icon palette, an outline, group editing capabilities, auto-scrolling and more.

\$99.99 #870216

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For grammar, style, usage, punctuation and spelling Grammatik 5.1 for Windows

Select your choice of writing style, whether business, technical, fiction, general, informal or custom, and let Grammatik improve your writing. Provides immediate, on-screen feedback for mistakes in grammar, style or improper sentence structure. It's faster and easier to use than ever before and includes mouse support.

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WordPerfect 5.1+ for Windows

\$39.99 #845487

LetterPerfect 1.0 for DOS

WordPerfect MainSheet puts a lot of features in a small package. You'll get a spell checker, thesaurus, graphics, macros, merge and footnote features and use the same keystrokes and file format found in WordPerfect.

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Simplify complex tasks and routine chores with this fully-featured, heavy-duty word processor

Microsoft Word 6.0 for Windows

There are many new features in the latest version of this power-packed word processor—including AutoCorrect for misspelled words, AutoFormat for last document setup, and AutoText for quick text entry. The new integrated Drawing Layer and Multilevel Undo offers you creative flexibility. Microsoft Word 6.0 fully utilizes the power and intuitive interface of the Windows environment! Plus, it's quick and easy to move to Word from other word processing programs.

\$299.88 #711523

Microsoft Word 6.0 for Windows Competitive Upgrade

\$129 #711549

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\$329.99

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OPERATING SYSTEMS

dos • windows • os/2



Microsoft MS-DOS 6.22

Features data protection technology to safeguard your data!

The most popular operating system for PC compatibles now provides you with features designed to safeguard your data, including ScanDisk, Anti-Virus, Undoette, Backup and Copy Overwrite Protection. It also includes defragmentation plus new DriveSpace disk compression with DoubleGuard and Uncompress, designed to safely add more disk space while repairing data irregularities. MemMaker makes it easy to gain more memory for applications on systems based on 386 and higher processors. And because MS-DOS is integrated for use with MS Windows, you can backup from Windows or DOS.

\$49.99

Microsoft

Microsoft MS-DOS Step-Up 3.5" 8532089 5.25" 8532105 \$9.95



Microsoft Windows 3.11

Enhance MS-DOS and make your PC easier to use

Discover the point and click simplicity of Windows! Windows 3.1 enhances MS-DOS by actively managing your system behind the scenes, providing you with more functions that result in a powerful, dependable operating system. Choose from the large selection of Windows-based applications to create outstanding documents. Includes hundreds of improvements so it's even easier to learn and use Windows, like computer-based tutorials, drop-down menus that look and work alike, online help and more.

\$89.99



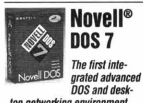
Microsoft Windows NT 3.1

Powerful high-end operating system for high-end computing systems

Maximize the productivity of your hardware with the powerful Microsoft Windows NT 3.1 operating system. The full 32-bit internal architecture of this system lets you run multiple applications more efficiently and unlocks the potential of a wide range of advanced PC hardware, including supporting symmetrical multiprocessing, and offering access to existing applications, without modification! Microsoft Windows NT combines the graphical ease-of-use and productivity boost of Windows with advanced capabilities for high-end computing.

\$319.99

Windows NT 3.1 Upgrade #673392 \$279.99



Novell® DOS 7
The first integrated advanced DOS and desktop networking environment. Novell DOS 7 is leading the way with built-in peer to peer networking, multitasking, advanced memory management, Stacker disk compression, excellent MS Windows support, and a host of valuable utilities. Novell DOS 7 is the best DOS value from Novell, the world leader in network operating systems.

PC DOS V6.3 Upgrade
More features and benefits, more security, more storage, more memory, more compatibility. The best features and functions on the market today are incorporated in this operating system including Central Point Backup, and Anti-Virus protection.

OS/2
Run Windows applications right along side your DOS favorites and new, blazingly fast 32-bit OS/2 programs—all at the same time!—with a memory manager, a disk cache program, multiple virtual desktops and more.

OS/2 2.1
If you want more from your computer, step up to OS/2 2.1. It lets you run the latest Windows, DOS and OS/2 applications you already have. Now OS/2.1 delivers 32-bit seamless SVGA support, plus improved multimedia, pen and CD-ROM support.

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PC DOS 6.3 #812701 \$79.99

Q DOS III #706572 \$59.99

IBM OS/2 2.1 Upgrade \$119.99

IBM OS/2 2.1 Upgrade \$119.99



Windows for Workgroups

Get familiar Windows 3.1 operating system with an easy-to-use integrated network in one inexpensive package! Share files and printers with others, send electronic mail and schedule group meetings, without a dedicated server or a network administrator. Upgrade requires first page of manual or disk number one!

Windows for Workgroups includes Windows 3.11

Upgrade add-on #744897 \$189.97

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Microsoft

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WinFax Pro 4.0

The complete fax solution gives you more features and more power to do more than ever before. Convert faxes to edit them in your word processor, broadcast faxes to groups of people, schedule late night faxing to save costs. Now faxing is as easy as printing. This is true professional faxing at its finest!

\$74.99

WinComm Pro #825075 \$89.99

Delrina Communication Suite #831784 \$119.99

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Fax 'n Find

#825075 \$89.99

Eclipse Fax for Windows

#846030 \$54.99

Ultra Fax for Windows

#788572 \$34.99

ExpressFAX for Windows

#824771 \$84.99

CrossTalk for Windows

#858896 \$109.99

CrossTalk for Windows V2.2

#858896 \$109.99

CrossTalk for Windows with Crossfax

#858746 \$149.99



Fax Works for Windows

Send, receive and mark-up faxes right from your PC. User friendly so you can be sending faxes minutes after installation.

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CommWorks for Windows

Gain immediate access to your choice of any (or all) five powerful communications tools with just a simple click of your mouse! It is easy.

\$99.99

to use and easy to install. #701201



Laplink V

For fast and easy transfer of PC files

The quickest, most powerful cable file transfer available—up to 8MB per minute. Copy or move files to desktop or notebook PC via serial or parallel cable.

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Laplink Wireless

#792718 \$249.99

Fast Lynx

#832253 \$99.99

Close-Up Dual Pack v6.0

#842195 \$149.99

Co/Session Host & Remote

#845800 \$84.99



Carbon Copy 2.5 for Windows

The complete remote communication software for PCs. Version 2.5 provides increased performance and new features including a software communications gateway and terminal emulator.

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Microsoft #852731

Carbon Copy Plus

#708891 \$145.99



Procomm Plus for Windows v2.0

The most popular communications program in the world now features fully integrated send and receive fax support.

Procomm Plus for Windows 2.0 features Action Bars which gives you command of all your functions using immediately understandable visual buttons. These handy control centers are completely user-definable, even a "floating" Action Bar that can be resized and moved anywhere on screen.

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Prodigy Membership Kit v1.1 for Windows

Prodigy is the on-line service millions rely on to connect them to more people, more information and more entertainment. Version 1.1 includes a new chat feature that allows you to talk in real-time to other on-line members.

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ProComm Plus #570572 \$79.99

America Online for Windows

America Online makes it easy to access software, services, news and more.

\$24.99

America Online #605188

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file & disk recovery • hard disk mgmt. • memory mgmt. • virus protection • printing • desktop mgmt. • screen savers

FASTBACK PLUS

6.0

The world's fastest, most reliable, easy-to-use backup software has a new interface, offers CIG and SCSI tape drive support, and more!



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Back-It-4 #706820 **\$64.99**

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Norton Backup for Windows #731984 **\$109.99**

Spiralite #617423 **\$99.97**

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The Standard for Data Recovery, Protection, and Diagnostics

Norton Utilities 8.0

Improving on its legendary data recovery and diagnostic capabilities, Norton Utilities has added background data recovery and disk optimization under Windows, and a new Windows configuration manager, for diagnosing and optimizing Windows specific problems on your PC.



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Control and Expand the Power of Windows!

PC Tools for Windows v.2.0

Tune your system for maximum performance and minimum down time! New features include a System Consultant, File Companions™, CrashGuard™, AutoSync™, in addition to powerful performance utilities, productivity tools, data recovery and protection utilities, and network support.



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Central Point Software™

PC Tools Pro V9.0

\$99.99

#722421

Direct Access

This hard disk menu system zips you right into your programs with the push of just a single key. You'll find a variety of disk utilities, including password protection, virus detection, usage tracking, mouse support, and more.



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SYMANTEC

Direct Access for Windows #795443 **\$69.99**

Winprobe 3.0 for Windows #864470 **\$44.99**

XTree Gold #656861 **\$99.99**

New! Direct Gold #615977 **\$25.96**

XTree for Windows #694679 **\$74.99**

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Double your hard disk capacity in minutes!

Stacker 4.0 Universal Upgrade

New Stacker 4.0 breaks the 2:1 barrier! It outperforms all other real-time compression products on the market. The larger your drive, the greater your gain. Using the latest in Stacker LZS™ compression technology with SmartPack™, your data will be stored tighter than ever so you'll get the most disk space possible. Beyond that, new Stacker uses less DOS application memory than ever, a mere 17K, far less than the competition.



STACKER

Now upgrades Dos 6.x to Stacker 4.0 **\$49.95**

#789040

Get the most out of your computer's RAM

QEMM v7.0

QEMM v7.0 uses new concepts to help you gain up to 250K of previously unused memory—safely, quickly and easily—by pushing device drivers up into high memory. QEMM is an expanded memory manager, an extended memory manager and a high memory manager all in one! Compatible with DOS 6.x and Windows.



\$64.99

Quarterdeck 3.5 #458961

Windexite 1.0 #879038 **\$32.99**

386MAX 7.0



Fast and reliable memory manager offers the Quailias memory tester to detect unstable or defective RAM. It includes new compressed drive support, improved DPMI support, virtual memory, and much more. 386MAX 7.0 delivers maximum memory!

#657387 **\$64.99**

QUALITAS

Uninstaller 2.0

Makes dirty Windows squeaky clean!

Finally, the first intelligent program that can successfully clean up Windows files, removing obsolete information from your INI files, leftovers from deleted programs that still lurk around your hard disk, taking up space and resources that could be better used for other applications.



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Micro-Trap, Inc.

Space Manager

#644187 **\$49.99**

Kaboom #843531 **\$34.99**

King Com Windows 1.0 #777947 **\$39.99**

Razzle Dazzle 3D win/DOS #812479 **\$34.99**

Scenic Sierra Club Collection #722637 **\$22.99**

QA Plus for Windows v6.0 #674693 **\$59.99**

CD Speedway #769885 **\$65.95**

Lightning #679587 **\$39.95**

Check It Pro Set #718403 **\$89.99**

AUTO Menu #694638 **\$39.99**

Set Up Advisor #824672 **\$16.99**

Eclipse Find for Windows #688184 **\$39.99**

Compress II #655324 **\$27.99**

Netroom #707919 **\$65.87**

The most comprehensive antivirus program available

The Norton AntiVirus 3.0



Version 3.0 now detects over 2000 viruses, eliminates existing infections or irregularities that could signal an unknown virus, and then repairs most infected files quickly and easily. Any suspicious activity will trigger protection for your system as it senses it. The new virus information library provides virus reference.

\$89.97

#731976

SYMANTEC

Speed Tools for Windows

Now you can optimize your hard disk in the background and change your system settings to deliver maximum Windows performance. It's automatic. Just press the "do it" key.



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#633566

Central Point Software™

Emergency Disk for Windows 2.0 #633592 **\$28.99**

MCAFEE

The complete Windows file management and utilities solution

Norton Desktop 3.0 for Windows

Peter Norton's collection of programs offers an enhanced, integrated file and program manager, with over 30 essential utilities and productivity tools to make Windows perform just the way you want.

\$119.90

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SYMANTEC

Norton Desktop for DOS #705723 **\$129.95**

Icon Do-It



Customize the look of your desktop with your own icon design, or choose from 200 designer icons, 15 animated icons, 50 custom cursors, and five animated cursors. Also has four screen savers.

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#705368

Icon Rear-It Too #800286 **\$19.99**

Icon Make-It #705400 **\$39.96**

Energizer Bunny for Windows #667883 **\$15.97**

Opus'n Bill Screen Saver

Eliminate screen burn-in with Berkeley Breathed's crazy characters and politically incorrect animated stories/screen savers with sound support!

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DELIRINA

The worlds number 1 screen saver is wilder, wierder, and wackier than ever!

After Dark 3.0 for Windows

Packed with over 30 colorful screen saving displays including 15 brand new modules. Watch Bad Dog, the mischievous puppy, playfully trash your desktop or take a swim with a new school of dazzling Fish. Take to the air with new flying toasters with Karaoke!

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BERKELEY SYSTEMS

#852715

Star Trek Screen Poster



Promotional movie posters, your favorite Star Trek characters, Klingons, starships and starbases, never-before seen photos and Star Trek trivia, it's all included in this double bundle offer. Includes the After Dark engine and 35 of the best images available from the movie.

\$19.99

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The Disney Collection Screen Saver for Windows

Prevent screen burn-in with this great collection of Disney character screen saving displays. Also features classic Disney voices and sounds.

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BERKELEY SYSTEMS

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BORLAND

Sidekick for Windows

Now there's a fast, friendly and instantly accessible way to keep track of your phone and address lists, appointment schedules, to-do lists, important notes and more.

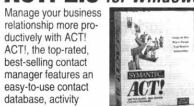
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\$99.95 #649064

This flexible, easy-to-use, computerized organizer includes a calendar, to-do list, planner, address book, and notepad sections, much more!

ACT! 2.0 for Windows



\$199.99 #827436
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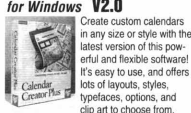
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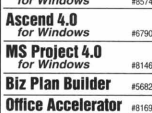
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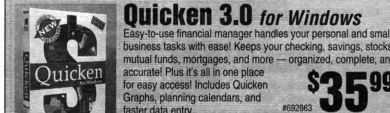
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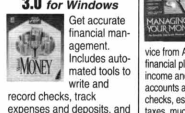
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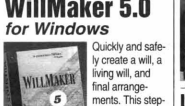
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