

- 3+OpenforMacintosh**
3Com Corporation
3165 Kifer Rd.
Santa Clara, CA 95052-8145
408-562-6400
page 54
- 3+OpenforMacintosh integrates Macintosh computers into the 3+Open LAN Manager environment, providing Macintosh clients with the multi-vendor connectivity to communicate with DOS and OS/2 workstations on the network, and other connectivity products through its support for OSI. Integration includes AFP compatible file service, server-based print spooling service, AppleTalk routing service, support for Macintosh files under 3+Open backup service.
- The following products include 3+Share:
- 3S/500 with 2MB RAM and 150MB hard disk 3C1300; Price: \$10,995
 - 3S/501 with 2MB RAM, 150MB hard disk, and 250MB tape option 3C1301; Price: \$12,750
 - 3S/510 with 2MB RAM and 320MB hard disk 3C1310; Price: \$12,750
 - 3S/511 with 2MB RAM, 320MB hard disk, and 250MB tape option 3C1311; Price: \$14,495
 - LocalTalk Locking Cable Kit (10 meter) M2066; Price: \$75
- The following servers include 3+Open LAN Manager:
- 3S/520 with 8MB RAM and 320MB hard disk 3C1320; Price: \$17,250
 - 3S/521 with 8MB RAM, 320MB hard disk, and 250MB tape option 3C1321; Price: \$18,995
 - 3S/530 with 8MB RAM and 630MB hard disk 3C1330; Price: \$20,495
 - 3S/531 with 8MB RAM, 630MB hard drive, and 2.3GB tape option 3C1331; Price: \$27,995
 - 3S/500 2MB Memory Expansion Board 3C1380; Price: \$1795
 - 3S/500 8MB Memory Expansion Board 3C1381 (\$5995)
 - EtherLink/NB (for Macintosh II) 3C543; Price: \$595
 - EtherLink/SE (for Macintosh SE) 3C563; Price: \$595
- 3270DoradusSolutionv1.09**
Doradus Corporation
6095 E. River Rd.
Minneapolis, MN 55432
612-572-1000
page 178
- The 3270 Doradus Solution provides dial-in synchronous SNA 3270 communications for the Macintosh Portable. Communications take place via an internal V.22bis synchronous modem card bundled with SNA 3270 software. Allows dial-in communications directly to a front-end processor without protocol converters or hardware add-ons to the Macintosh Portable.
- Part No.: 3270DS; Price: \$1260
- 3Com Corporation**
Products: 3+OpenforMacintosh, EtherLink/NB, EtherLink/SE
3165 Kifer Rd., Santa Clara, CA 95052-8145, 408-562-6400
- 4thDIMENSION**
Acius
10351 Bubb Rd.
Cupertino, CA 95014
408-252-4444
page 38
- 4th DIMENSION is a client-server database system with an open architecture and an integrated application generator. It is a multiuser relational database for the Macintosh that has built-in report writer, mailing labels, and graphics capabilities. 4th DIMENSION supports Apple's Data Access Language through its connectivity kit.
- Part No.: N/A; Price: \$795
- AUXv2.0**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 147
- AUX v2.0 is the Macintosh operating system for customers who require UNIX. With AUX v2.0, users access the Macintosh desktop on an industry standard version of UNIX. All the connectivity of a standard UNIX system is provided, including TCP/IP, NFS, Yellow Pages, Berkeley Networking Services, and X Window System (sold separately). Users can run multiple Macintosh, UNIX, and X applications at the same time.
- Part No.: N/A; Price: \$795-\$2395 depending on media purchased
- AUX-DRV**
Racal InterLan, Inc.
155 Swanson Rd.
Boxborough, MA 01719
800 LAN-TALK
page 156
- AUX-DRV Installer driver allows a Macintosh running AUX to communicate over 10Mbps Ethernet. AUX-DRV is used in conjunction with Racal InterLan's NIA310 MacConnect, MacConnect 10BT, or MacConnect SE/30 Ethernet networking boards.
- Part No.: N/A; Price: \$75

Access/OneMaxTalkInterfaceModule The Access/OneMaxTalkInterfaceModule delivers high-performance networking among Apple Ungermaun-Bass, Inc. Macintosh personal computers and other LocalTalk devices such as printers, and integrates those devices into an Ethernet, FDDI, token ring, or broadband network. The MaxTalk Module supports 16 individual LocalTalk devices or 16 daisy-chained LocalTalk networks using unshielded twisted-pair wiring.
P.O. Box 58030
Santa Clara, CA 95052-8030
408-496-0111
page 11 Part No.: N/A; Price: Contact Supplier

AccessPC AccessPC enables Macintosh users to use disks and files from MS-DOS and OS/2 PCs as icons in the Finder just like Macintosh icons. AccessPC mounts locked or full disks, formats MS-DOS disks using the Finder Erase Disk command, and maintains the normal MS-DOS disk format even when moving files to the disk. MS-DOS data files can be recognized and assigned to Macintosh applications through the Control Panel, so they may be opened or printed directly from the Finder.
Insignia Solutions Inc.
254 San Geronimo Wy.
Sunnyvale, CA 94086
408-522-7600
page 104 Part No.: N/A; Price: \$90

Acius Product: 4th DIMENSION
10351 Bubb Rd., Cupertino CA 95014, 408-252-4444

AckNOWLEDGE AckNOWLEDGE is a communications development toolkit for the Macintosh that creates custom frontends for communicating with a variety of host computer systems. TAL programming language provides control over the Macintosh interface with custom dialog boxes, pull-down menus and icons.
Prometheus Products
7225 SW Bonita Rd.
Tigard, OR 97223
800-477-3473
page 34 Part No.: SFT-16; Price: \$499

ACTINET SE, SE/30, II ARCTalk Interface Cards ACTINET produces ARCTalk Interface Cards for the Macintosh SE (16-bit), the Macintosh SE/30 (32-bit) and the Macintosh II (32-bit). These provide a direct connection to ARCNET networks, using the Processor Direct Slot of the Macintosh SE and SE/30 and the NuBus interface of Any Macintosh II.
ACTINET Systems, Inc.
360 Cowper St., Suite 11
Palo Alto, CA 94301
415-326-1321
page 53 Part No. 900-1000 (SE); Price: \$495
Part No. 900-1011 (SE/30); Price: \$695
Part No. 900-1001 (II); Price: \$695

ACTINET Systems, Inc. Products: ACTINET II ARCTalk Interface Card, ACTINET SE ARCTalk Interface Card, ACTINET SE/30 ARCTalk Interface Card
360 Cowper St., Suite 11, Palo Alto, CA 94301, 415-326-1321

Adaptec Products: Nodem, EtherMac II, EtherMac II/10T
691 S. Milpitas Blvd., Milpitas, CA 95035, 408-945-2518

AESP Product: NetMap
1810 N.E. 144th St., N. Miami, FL 33181, 800-446-2377

The AG Group Product: Ether Peek
Station B, P.O. Box 26728, San Francisco, CA 94126, 415-945-7194

Alisa Systems, Inc. Products: Alisa Digital Printer Support System, Alisa Print System, Alisa Mail, Alisa Share ATP File Server, Alisa Talk, Alisa Terminal Remote Terminal, MailMate, MaxNotes, TSSnet
221 East Walnut St., Suite 175, Pasadena, CA 91101, 818-792-9474

- AlisaMail** AlisaMail is a VAX-based electronic mail system for VAX/VMS, Macintosh and PC users. AlisaMail's core SQL-based engine provides message switching and directory services, and its mail server provide access to external electronic mail systems. The AlisaMail Microsoft Mail and VMS mail servers make mail exchange possible between Microsoft Mail and Digital's ALL-IN-1 system, IBM PROFS, X.400 and other services supported by MailBus.
Alisa Systems Inc.
221 East Walnut St., Suite 175
Pasadena, CA 91101
818-792-9474
Part No.: N/A; Price: \$10,000-\$17,500
page 137
- AlisaTalk** AlisaTalk is the family name for a set of software components that provide file-sharing, file-transferring, file-printing, and terminal-emulation services for Macintosh and VAX/VMS networked systems. AlisaTalk consists of the AlisaShare AppleTalk Filing Protocol (AFP) File Server, the AlisaPrint System, and the Alisa Terminal Remote Terminal emulator. The Alisa Digital Printer Support package is an add-on option for Digital/PostScript printer support.
Alisa Systems Inc.
221 East Walnut St., Suite 175
Pasadena, CA 91101
818-792-9474
Part No.: N/A; Price: \$4700-\$14,400
page 121
- ALL-IN-1 DESKtop for Macintosh** ALL-IN-1 DESKtop for Macintosh integrates Macintosh users into the ALL-IN-1 Integrated Office System server through a graphic user interface. It supports remote capabilities including file transfer and electronic mail. ALL-IN-1 DESKtop for Macintosh provides terminal emulation services for accessing VMS-based applications and supports local filing of documents and data with the DESKtop for Macintosh file cabinet.
Digital Equipment Corp.
30 Porter Rd. (LJO2/C10)
Littleton, MA 01460
and Authorized Digital Distributors
Part No.: N/A; Price: Contact supplier
page 137
- AMIE II** AMIE II is a hardware/software package that makes the Macintosh II family plug compatible to a Unisys network by emulating a UTS-20, UTS-30, UTS-40 or SVT-1120 terminal while providing a familiar Macintosh-style interface. A single NuBus card, based on a Motorola 68000 Series microcomputer, supports various methods of connectivity (Sperry T-Mux, synchronous modem, and twisted-pair) and handles the communication line protocol to Unisys 1100 and 2200 mainframes.
AirLand Systems Corp.
2710 Prosperity Ave.
Fairfax, VA 22031-4387
703-573-1100
Part No.: N/A; Price: \$995
page 66
- Andrew KMW Series II and III Twinax Protocol Converters-Hardware** Andrew KMW offers the Series II and III Twinax protocol converters. The Series III is a single-port converter, while the Series II provides up to seven asynchronous ports. The Andrew KMW Twinax protocol converters can direct-connect to the Twinax ports on a System/34, /36, /38 or AS/400 minicomputer.
Andrew KMW Systems Corp.
6034 W. Courtyard Dr.
Austin, TX 78730
512-338-3000
Part No.: 03260; Price: \$1495, Base unit with single port
Part No.: N/A; Price: \$300, Each additional port (up to 7)
Part No.: N/A; Price: \$300, Expansion Board (3 or more ports)
Part No.: 06200; Price: \$1195, Series III Twinax Protocol Converter (single port only)
page 181
- Andrew KMW Series II and III Twinax Protocol Converters-Software** Andrew KMW's emulation software includes a device driver for the Series II or Series III Twinax protocol converter, as well as the TwinAccessLink program running on the Macintosh computer. There are separate versions of ETU for the System/34, System/36, System/38 and AS/400.
Andrew KMW Systems Corp.
6034 W. Courtyard Dr.
Austin, TX 78730
512-338-3000
Part No.: 5308-01-34-1; Price: \$400, ETU System/34 Macintosh
Part No.: 5308-01-36-4; Price: \$500, ETU System/36 Macintosh
Part No.: 5308-01-38-7; Price: \$800, ETU System/38 Macintosh
Part No.: N/A; Price: \$900, ETU AS/400
page 181
- Andrew KMW Systems Corp.** Products: Andrew KMW Series II and III Twinax Protocol Converters-Hardware, Andrew KMW Series II and III Twinax Protocol Converters-Software
6034 W. Courtyard Dr., Austin, TX 78730, 512-338-3000
- Andyne** Products: GQL/Admin V2.0, GQL/Design V2.0, GQL/User V2.0
544 Princess St., Suite 202, Kingston Ontario K7L 1C7, 613-548-4355

Apple3270API
APDA (Apple Programmers & Developers
Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 193

The Apple 3270 API is designed to allow terminal emulators, file-transfer programs, and other Macintosh computer applications and tools such as Data Access Language and MacWorkStation to use the 3270 services without being aware of the physical network connection details of coaxial, Token Ring, or SDLC.
Part No.: M0663LL/A, Price: \$500, Internal license; \$1000, External license

Apple Computer, Inc.

Products: A/UX 2.0, Apple Coax/Twinax Card, Apple Data Modem 2400, Apple EtherTalk NB Card, Apple FDHD Drive, Apple File Exchange (AFE), Apple PC 5.25 Drive, Apple Personal Modem, Apple Serial NB Card, Apple Share File Server 2.0, Apple Share PC, Apple Share Print Server 2.0, Apple TokenTalk NB Card, LocalTalk Cable System, LocalTalk PC Card, Macintosh-To-VAX Integration Toolkit, MacDFT, MacX, MacTerminal, SMB File Transfer Utility, X Window System for A/UX
20525 Mariani Ave., Cupertino, CA 95014, 408-996-1010

**Apple Programmers & Developers
Association (APDA), Apple Computer, Inc.**

Products: Apple 3270 API, Data Access Language Developer's Toolkit, Data Access Language MVS/TSO Server, Data Access Language VAX/VMS Server, Data Access Language VM/CMS Server, MacAPPC, MacTCP, MacX25 Programming Library, MacWorkstation
20525 Mariani Ave. MS33G, Cupertino, CA 95014, 800-282-2732 (U.S.), 800-637-0029 (Canada), 408-562-3910 (International)

Apple Coax/Twinax Card
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 174

The Apple Coax/Twinax Card is an expansion card and software that allows the Macintosh II family systems to connect to an IBM SNA network as 3270 Information Display Systems via industry standard coaxial cable. The card allows users to access mainframe-based 3270 applications. 5250 terminal emulation software is available from other suppliers.
Part No.: M0261/A; Price: \$1495

Apple Data Modem 2400
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 77

The Apple Data Modem 2400 enables communication with other personal computers, minis, and mainframes over the public telephone network. An error-correcting protocol, Microm Networking Protocol (MNP) from Microm, Inc., is built in to the modem to ensure reliable communications over noisy or low-quality telephone lines. The Apple Data Modem 2400 can be connected to the entire Apple and Macintosh families of computers.
Part No.: C0002LL/A; Price: \$499

Apple EtherTalk NB Card
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 9

The EtherTalk NB card provides direct connectivity to IEEE 802.3 Ethernet networks for the Macintosh II family of computers. Any of a number of networking protocols may be used with the card, including the AppleTalk network system and TCP/IP. The EtherTalk NB card includes a built-in Ethernet transceiver, with connectors for both thick and thin Ethernet cabling.
Part No.: M0410LL/A; Price: \$699

- AppleFDHDDrive**
Apple Computer Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 95
- The Apple FDHD Internal and External disk drives can exchange information between Macintosh files and MS-DOS, OS/2, and ProDOS files. File exchange between non-Macintosh computers can be accomplished by using the Apple File Exchange, included in the Macintosh System Software, or with products provided by third parties such as Dayna Communication's DOS Mounter.
- Part No.: M0112, Apple FDHD External Drive (Macintosh FDHD SE or SE/30 only); Price: \$629
Part No.: M0247, Apple FDHD Internal Drive Upgrade (Macintosh II X & SE/30 users); Price: \$499
Part No.: M6051 Apple FDHD Macintosh II Upgrade Kit; Price: \$599
Part No.: M6052 Macintosh SE FDHD Upgrade Kit (Upgrade Macintosh SE to Macintosh SE FDHD); Price: \$599
- Apple File Exchange (AFE)**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 99
- Apple File Exchange (AFE) software is a general purpose file-translation utility that is part of the Macintosh system software package. AFE supports batch processing of conversions and, using individual translators, converts data from Macintosh applications into a format understood by MS-DOS-compatible applications and vice versa. AFE is shipped with Apple's DCA Translator. Other translators are available from 3rd party vendors.
- Part No.: N/A; Price: No Charge
- ApplePC5.25 Drive**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 95
- The Apple PC 5.25 Drive is an MS-DOS-compatible disk drive that connects to a Macintosh SE or Macintosh II computer equipped with an appropriate controller card. The PC 5.25 Drive and AFE software give Macintosh II and Macintosh SE computers the ability to read files from and write them to 360K MS-DOS disks.
- Part No.: A9M0110; Price: \$399 (Drive only)
- Apple Personal Modem**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 77
- The Apple Personal Modem is a compact 300/1200 baud modem that provides a data communications solution for any Apple personal computer. Features include auto answer, dial, and redial. It works with either tone or pulsed phone systems and is Hayes compatible.
- Part No.: A9M0334; Price: \$279
- Apple Serial NB Card**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 187
- The Apple Serial NB Card is an expansion card for the Macintosh II family of computers. When used with Apple's MacAPPC or MacDFT software, the Serial NB Card provides a complete SDLC solution for connectivity into the IBM SNA environment. MacX25 software, running on the Serial NB Card, provides PAD services and X.25 packet-level services to application programs. Requires RS-232 or v.35 cable.
- Part No.: M0264; Price: \$1195
Part No.: M0128LL/A, Apple RS-232 cable; Price: \$129
Part No.: M0127LL/A, Apple V.35 cable; Price: \$189
- AppleShare File Server 2.0**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 20, 99
- The AppleShare File Server is software that turns a Macintosh Computer into a dedicated file server that allows file sharing among Macintosh, Apple IIe and IIgs, and MS-DOS based computers. The File Server has a security system that allows users to control how and with whom information is shared. The File Server supports up to seven hard disks and allows simultaneous access for up to 50 users.
- Part No.: M0548/B, \$799
Part No.: M0559/A, AppleShare User's Guide (5 per pack); Price: \$129

- AppleSharePrintServer2.0** The AppleSharePrintServer is software that turns a Macintosh Computer into a dedicated print spooler to print documents onto any AppleTalk compatible LaserWriter or ImageWriter printer. The Print Server will handle printing documents from Macintosh, Apple IIe and II GS, and MS-DOS based computers. The Print Server allows users to monitor and change the status of the documents being printed.
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 21 Part No.: M0576; Price: \$299
- AppleSharePC, version 2.0** AppleSharePC software allows users of MS-DOS personal computers access to the services of the AppleTalk Network System. AppleSharePC offers a menu system modelled after the Macintosh Chooser. Application compatibility and Datafile mapping make using AppleSharePC simple, efficient, and virtually transparent.
Apple Computer Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 99 Part No.: M0098LL/A; Price: \$149
- AppleTalkInternetRouter** The AppleTalk Internet Router lets users increase the size and improve the performance and manageability of an AppleTalk system. It allows AppleTalk networks such as LocalTalk, EtherTalk, and TokenTalk be interconnected to form an internet. The router moves data from one network to another transparently so that the internet functions like a single network.
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 13 Part No.: M0705, AppleTalk Internet Router; Price: \$399
- AppleTokenTalkNBCard** Apple's TokenTalk NBCard is an expansion card that connects Macintosh II computers to token ring networks. When used with other Apple software products, the card supports a variety of network environments, including AppleTalk, IBM 3270, APPC, and SMB. This allows users to access local area network and mainframe-based services connected to the token ring.
Apple Computer Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 183 Part No.: M0237; Price: \$1250
- APT Communications, Inc.** Product: ComTalk
9607 Dr. Perry Rd., Ijamsville, MD 21754
- Asanté MacCon+ Ethernet Cards** Asanté offers a line of network interface cards for Macintosh II, SE, and SE/30 computers on any Ethernet media: Thick, Thin, or the new 10Base T unshielded twisted-pair. MacCon+ cards support both AppleTalk Phase 1 and Phase 2. Register-level compatibility with Apple's EtherTalk, and support for AppleShare, NetWare, and 3+Open is already built into the Asanté MacCon+ Ethernet cards.
Asanté Technologies, Inc.
405 Tasman Dr.
Sunnyvale, CA 94089
800-662-9686
page 12 Part No.: N/A; Price: \$495 to \$545
- Asanté Technologies, Inc.** Products: Asanté MacCon+ Ethernet Cards, MacCon+ Token Ring Cards for the Macintosh II Family
405 Tasman Dr., Sunnyvale, CA 94089, 800-662-9686
- AsyncServeR** AsyncServeR is VAX and VMS software that communicates with a client Macintosh system over an ordinary asynchronous terminal port, providing the Macintosh with access to all AppleTalk facilities available through the Digital VAX.
Computer Methods Inc.
525 Route 73 South
Marlton, NJ 08053
609-596-4360
page 124 Part No.: N/A; Price: \$595 to \$1895
- AT&T Network Systems** Product: Datakit II VCS
184 Liberty Corners Rd., Warren NJ 07060, 201-580-5516

- Avatar Technologies, Inc.** Products: MacMainFrameDX, MacMainFrameGraphics, MacMainFrameCoaxGateway, MacMainFrameCoaxWorkstation, MacMainFrameTokenRingWorkstation, MacPROFF
65 South St., Hopkinton, MA 01748, 508-435-3000
- Backmatic v1.1** Backmatic will back up new or changed files automatically at specified times, including shutdown. Files can be backed up to floppies, another hard drive, removable cartridges, or file servers. Any Macintosh with Backmatic installed can make backups to a folder on a shared volume. Backmatic is compatible with Apple and third-party server software, including VAX, Novell, and UNIX servers.
Magic Software, Inc. 2206 Franklin St. Bellevue, NE 68005 800-342-6243
page 82
- Blyth & Associates** Product: Omnis5
1065 East Hillsdale Blvd., Suite 300, Foster City, CA 94404, 415-571-0222
- BroadTalk** The BroadTalk LAN is a Macintosh connectivity solution over broadband (CATV) cable that consists of add-in boards to the Macintosh II family and the Macintosh SE for direct connections to the broadband cable. It also consists of gateways from broadband cable to LocalTalk cable and from broadband cable to Ethernet cable. The BroadTalk LAN supports AppleTalk, TCP/IP, DECnet, and OSI protocols.
Cactus Computer, Inc. 1120 Metrocrest Dr., #103 Carrollton, TX 75006 214-416-0525
page 69
- Part No.: CC200/RF, BroadTalk for the Macintosh II; Price: \$895
Part No.: CC220/RF, BroadTalk for the Macintosh SE; Price: \$895
Part No.: CCRF/EN, BroadTalk Gateway to Ethernet; Price: \$3550
Part No.: CCRF/LT, BroadTalk Gateway to LocalTalk; Price: \$2985
Part No.: CC240/RF, BroadTalk/PC for Novell NetWare; Price: \$1595
- C-Server** Serial-communicating equipments such as modems, printers, mini-computers, protocol converters, x.25 PADs, etc. can be shared by AppleTalk users. The three password-protected serial ports can be set up to contend so that a user doesn't have to select a specific port when sharing a mini-computer or modems. C-Server units can be stacked. Software is included for custom chooser icon creation.
Solana Electronics 7887 Dunbrook Rd., Suite A San Diego, CA 92126 619-573-0800
page 19
- Part No.: SE814; Price: \$695
- Cactus Computer** Products: BroadTalk, StarBurst
1120 Metrocrest Dr., #103, Carrollton, TX 75006, 214-416-0525
- Carnation Software** Product: MacToPic
P.O. Box 608, Carnation, WA 98014, 206-333-4288
- Cayman Systems** Products: GatorBox, GatorMail-Q, GatorShare, GatorCard E/II.
26 Landsdowne St., Cambridge, MA 02139, 617-494-1999
- cc:Mail** cc:Mail is an electronic mail system that operates in a multivendor (Macintosh, MS-DOS, and OS/2) local area network environment. It provides transparent connectivity with Digital and IBM-based E-Mail systems; UNIX mail, public E-Mail services, and the facsimile world. The cc:Mail system consists of a central Post Office (the database) that resides on the network server's hard disk. No software actually runs on the server.
cc:Mail, Inc. 385 Sherman Ave. Palo Alto, CA 94306 800-448-2500
page 25
- Part No.: N/A; Price: \$495 to \$1295
- cc:Mail, Inc.** Product: cc:Mail
385 Sherman Ave., Palo Alto, CA 94306, 800-448-2500

Central System Manager (CSM) v2.01
Integrated Solutions
1020 Eighth Ave.
King of Prussia, PA 19406
215-337-2282
page 136

Central System Manager allows the management of networked VAX computers from a Macintosh computer using a standard point-and-click interface. All features and command functions are user definable. CSM allows the system administrator to treat groups of VAX computers as a single management domain without knowledge of DCL.
Part No.: CSM-VMS-M; Price: from \$750

CE Software

Product: QuickMail
P.O. Box 65580, West Des Moines, IA 50265, 515-224-1995

Circuit Research

Product: FlexFAX
4 Townsend West, Suite #3, Nashua, NH 03063, 603-880-4000

Clear Access

Fairfield Software
200 West Lowe
Fairfield, IA 52556
800-522-4254
page 39

Clear Access is a desk accessory which gives every Macintosh application a transparent window into corporate databases: on minicomputers, on mainframes, across local networks or worldwide. Communication and translation tasks are handled invisibly in the background by Clear Access. Clear Access supports Apple's Data Access Language. Volume discounts and site licenses available.
Part No.: N/A; Price: \$349

CommCard

Taniwha Systems Design
2206 Roosevelt Ave.
Berkeley, CA 94703
415-540-5557
page 9

CommCard provides either four asynchronous serial ports or one LocalTalk port per card to the Macintosh. Its software supports the Macintosh Communications Toolbox, the older style serial programming interface, AppleTalk Internet Router, and A/UX.
Part No.: N/A; Price: \$450

Comm Solutions

White Pine Software
94 Route 101A
Amherst, NH 03031
603-886-9050
pages 132, 161

Comm Solutions is a network driver package that functions as a companion product to the White Pine VT Series Emulators and eXodus. White Pine Software has licensed Network/Communications software from third-party vendors. Networking software to be included consists of Runtime, TSSnet (Peer-to-peer DECnet communications for eXodus), and MacTCP (TCP/IP for eXodus & VT Series emulators).
Part No.: N/A; Price: \$4795 to \$6295

Communications Research Group (CRG)

Products: MacBLAST and host products (UNIX/XENIXBLAST, MS-DOSBLAST, BTOS/CTOSBLAST, DGBLAST, VAXBLASTII, HPBLAST, IBMBLAST, NCR TOWERBLAST, TandemBLAST, WangBLAST, PrimeBLAST)
5615 Corporate Blvd., Baton Rouge, LA 70808, 800-242-5278

CommUnity-Mac

EVAC
48431 Milmont Dr.
Fremont, CA 94538
415-683-2222
page 125

CommUnity-Mac is a software product that utilizes an intelligent Ethernet controller to provide DECnet connectivity for Macintosh Plus, SE, and II computers. The controller reduces the networking load on the Macintosh for high-speed performance on a DECnet Phase IV Ethernet network.
Part No.: N/A; Price: \$350 to \$495

Compatible Systems Corp.

Products: Ether+, Ether2
P.O. Box 17220, Boulder, CO 80301, 303-444-9532

Computer Methods Inc.

Product: Async ServeR
525 Route 73 South, Marlton, NJ 08053, 609-596-4360

- ComTalk** ComTalk is a modular, high-throughput AppleTalk Phase 1 or Phase 2 internet network router. It connects Ethernet, Token Ring, and up to six LocalTalk networks; supports remote connections via high speed synchronous links (up to 1.544 Mbps); and provides gateway access to four asynchronous ports and TCP/IP network resources. Internet Manager desktop accessory is included.
APT Communications, Inc.
9607 Dr. Perry Rd.
Jjamsville, MD 21754
800-842-0626
Part No.: N/A; Price: \$5000 to \$12,500
page 17
- Concentrix Technology, Inc. (Bantam)** Product: Connections 1.0P
7 Ashdown Place, Half Moon Bay, CA 94019
- Connections v1.0P** Connections supports PROFS Notes and PROFS calendaring/group scheduling with additional E-Mail features such as batch deletion and retrieval and an Out Basket. Other features include Daily and Monthly Calendars, To-Do lists, Telephone Directory, Outgoing Phone Log, Daily Journal, Export/Import capabilities, and Personal Libraries that support full-text search.
Concentrix Technology Inc. (Bantam)
7 Ashdown Place
Half Moon Bay, CA 94019
Part No.: N/A; Price: \$495.00
page 190
- Connectivité Corp.** Product: Masquerade 3270
101 Executive Blvd., Elmsford, NY 10523, 914-592-2853
- CoOperative Printing Solutions, Inc.** Product: P Serve 3.0
5950 Live Oak Pkwy., Suite 175, Norcross, GA 30093, 404-840-0810
- Core Technology** Products: CTC Bridge-Mac 3.50, CTC Bridge-Mac Gateway 1.01
7335 Westshire Dr., Lansing, MI 48917, 517-627-1521
- CTC Bridge-Mac v3.50** CTC Bridge-Mac offers connectivity to both Sperry and Burroughs host systems and support of the Uniscope, Chi, and Poll/Select protocols. Sperry features include UTS 20, UTS 30, UTS 40 and SVT 1120 emulation. Burroughs features include Poll/Select and poll contention mode protocol support, and TD830, MT983, ET1100, and T27 emulation. Volume and site licenses available.
Core Technology
7335 Westshire Dr.
Lansing, MI 48917
517-627-1521
Part No.: CTC1003; Price: \$395
page 67
- CTC Bridge-Mac Gateway 1.01** CTC Bridge-Mac Gateway offers connectivity to both Sperry and Burroughs host systems and support of the Uniscope, Chi, and Poll/Select protocols. Features include: the same terminal features as CTC Bridge-Mac 3.50; support of AppleTalk protocol; non-dedicated gateway; up to 100 sessions per gateway; baud rates up to 38400 BPS; line monitor mode; auto dial; and TTY emulation.
Core Technology
7335 Westshire Drive
Lansing, MI 48917
517-627-1521
Part No.: CTC1008; Price: \$895 (4 stations), additional stations \$95
page 68
- Current Loop Converter & Cable** Menlo's Current Loop Converter (CLC) connects RS-232 (EIA) devices (Macintosh and IBM workstations) to 20 mA current loop connections (Tandem, Unisys, Prime, and so on). It requires no additional desk space or external power and is fitted with two DB-25 receptacle connectors for standard connections.
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
Part No.: N/A; Price: \$125 w/cable
page 204

Data Access Language Developer's Toolkit

APDA (Apple Programmers & Developers Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 38

Data Access Language (formerly CL/1) is a standard connectivity language that links personal computer applications to host data. Data Access Language gives Macintosh users access to data stored in relational databases on VAX or IBM systems. Macintosh applications can directly access data in Ingres, Oracle, Informix/SQL, SYBASE, and Digital's Rdb/VMS databases, as well as in DB2 and SQL/DS databases on IBM systems.
Part No.: N/A; Price: Contact supplier

Data Access Language Server for MVS/TSO

APDA (Apple Programmers & Developers Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 192

The Data Access Language Server for MVS/TSO is a networking software product that provides Data Access Language access to IBM Database 2 (DB2) databases on an MVS/TSO host system. Running on the MVS/TSO host, the Data Access Language Server works cooperatively with Macintosh applications that support Data Access Language. The server receives a request from a Macintosh application, carries it out on the host, and sends the desired data back to the Macintosh application.
Part No.: C0164LL/A; Price: \$20,000

Data Access Language Server for VAX and VMS

APDA (Apple Programmers & Developers Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 132

The Data Access Language Server for VAX and VMS is a networking software product that provides Data Access Language access to files and databases on a VAX and VMS host system. Running on the VAX and VMS host, the Data Access Language Server works cooperatively with Macintosh applications that support Data Access Language. Data Access Language operates under existing host and database-management security and integrity schemes, assuring complete data security with no additional maintenance requirements.
Part No.: N/A; Price: \$5000

Data Access Language Server for VM/CMS

APDA (Apple Programmers & Developers Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 191

The Data Access Language Server for VM/CMS is a networking software product that provides Data Access Language access to the Structured Query Language/Data System (SQL/DS) on a VM/CMS host system. Running on the VM/CMS host, the Data Access Language Server works cooperatively with Macintosh applications that support Data Access Language. The server receives a request from a Macintosh application, carries it out on the host, and sends the desired data back to the Macintosh application.
Part No.: C0163LL/A; Price: \$15,000

Datability Software Systems, Inc.

Product: MacRAF
322 Eighth Ave., 11th floor, New York, NY 10001, 800-DIALDSS

- Datakit II VCS**
AT&T Network Systems
184 Liberty Corners Rd.,
Warren, NJ 07060
201-580-5516
page 86
- Datakit II Virtual Circuit Switch provides the foundation for building corporate-wide backbone utility networks. Typical Datakit networks support several types of protocols and are distributed over large geographical distances, usually with redundant data paths. Datakit II VCS nodes use either fiber trunks (in house) or leased facilities (DDS, T1) to connect to one another.
Part No.: N/A; Price: Varies depending on configuration
- DataViz, Inc.**
Products: MacLink Plus/PC v4.5, MacLink Plus/Translators
35 Corporate Dr., Trumbull, CT 06611, 203-268-0030
- DatStream**
Personal Computer Peripheral Corp.
4170 Eisenhower Blvd.
Tampa, FL 33634
813-884-3092
page 12
- DatStream is a tape backup system utilizing 4mm DAT technology. DatStream has 1.3 gigabytes for on-line storage, backs up across time zones, and can find any file with an average seek time of 20 seconds. It also features unattended workstation backups with bundled PCPC NetStream software and is compatible with DDS and DATA/DAT technology.
Part No.: N/A; Price: \$3479
- Dayna Communications**
Products: DaynaFile, DaynaMail, DaynaTalk, DL2000, DL/2, DOS Mounter
50 S. Main St., Suite 530, Salt Lake City, UT 84144, 801-531-0600
- DaynaFile**
Dayna Communications
50 S. Main St., Suite 530
Salt Lake City, UT 84144
801-531-0600
page 96
- DaynaFile is an external SCSI floppy disk drive which allows Macintosh computers to read from and write to MS-DOS data disks as if they were Macintosh disks. Available as a single-drive or dual-drive unit, DaynaFILE can accept 5.25-inch or 3.5-inch MS-DOS disks in any format. MS-DOS disks appear as an icon on the desktop and their subdirectories and files are shown as Macintosh folders and documents.
Part No.: DF0100 (5.25-inch 360K drive); Price: \$650 and up
- DaynaMAIL**
Dayna Communications
50 S. Main St., Suite 530
Salt Lake City, UT 84144
801-531-0600
page 26
- DaynaMAIL is an electronic mail system for users of Macintosh and IBM-compatible computers. On a network with a dedicated file server, DaynaMAIL runs on the server and does not require a workstation be dedicated as a mail server. Based on the MHS (Message Handling Service) protocol from Action Technologies, DaynaMAIL can offer wide-area communications with other MHS-compatible applications.
Part No.: DM0100; Price: \$295 for 5-pack
- DaynaTALK**
Dayna Communications
50 S. Main St., Suite 530
Salt Lake City, UT 84144
801-531-0600
page 96
- DaynaTALK is a family of products for Macintosh and IBM personal computers that increase the 230 Kbps LocalTalk data transmission rate to a maximum of 850 Kbps on the Macintosh and 1.7 Mbps on IBM PCs, PS/2s, and compatibles. This allows more work to be completed on an existing heavily-used network, or more computers to be added without degrading performance.
Part No.: DT0100; Price: \$139
- DayStar Digital**
Product: LT200 LocalTalk Interface Board
5556 Atlanta Hwy., Flowery Branch, GA 30542, 404-967-2077
- DB-Library,
Hyper/DB-Library**
Sybase
6475 Christie Ave.
Emeryville, CA 94608
800-8SYBASE
page 41
- Relational database management system for on-line applications and decision support. With Sybase's Client/Server Architecture, client user interface functions are separated from server data management and transaction functions. The Client/Server Interfaces facilitate the management of multi-vendor computing environments.
Part No.: N/A; Price: \$3000 and up

DBF-Access Tools for HyperCard

Nittany Development Group
606 No. Armistead St.
Alexandria, VA 22312
703-256-0791
page 105

DBF-Access Tools for HyperCard 1.0 is a software add-on that gives HyperCard users the ability to access information stored in dBASE III PLUS compatible database (DBF) and memofiles. Users can import DBF files into any stack, update the DBF files in place, or create new DBF files for use by Dbase-language applications. Commercial distribution licenses are also available at a fee of \$25 per end-user copy.
Part No.: N/A; Price: \$95

DCA

Products: MacRMA, MacRMA API, MacRMA Graphics, MacRMA Lan Servers, SDLC Gateway and 802.2 Gateway, MacRMA Workstation
1000 Alderman Dr., Alpharetta, GA 30201, 404-442-4000

DECLanWORKS for Macintosh

Digital Equipment Corporation
30 Porter Rd. (LJO2/C10)
Littleton, MA 01460
page 116

DECLanWORKS software for Macintosh computers enables VAX and MicroVAX computers from Digital to act as file, data, electronic mail, and resource servers to large groups of Macintosh computers. In this client/server implementation, the integrated set of components is designed to work together as a network solution. This jointly developed product is the result of the technology exchange and development agreement between Digital and Apple.
Part No.: N/A; Price: \$295 client license per Macintosh

Deft, Inc.

Products: Personal Deft, The Deft Editor Set, Deft Gateways
557 Dixon Rd., #110, Rexdale, Ontario M9W1H7, 416-249-2246

Deft Editor Set

Deft, Inc.
557 Dixon Rd., #110
Rexdale, Ontario M9W1H7
416-249-2246
page 36

The Deft Editor Set can be used by multi-user development teams to design relational database systems in Ingres, Oracle, SYBASE, Rdb, Informix or DB2. The tool set includes editors for DFDs, ERDs, Structure Charts, and Forms and Reports. It includes a Design Compiler, for checking logical and syntactical consistency, an import/export facility, mapping amongst RDBMSs, multi-user dictionary access, and selection of multiple host types.
Part No.: N/A; Price: \$7900/license

Deft Gateways

Deft, Inc.
557 Dixon Rd., #110
Rexdale, Ontario M9W1H7
416-249-2246
page 36

Deft Gateways is software to forward/reverse engineer RDBMS schema. The Gateways offer portability amongst Ingres, Oracle, Sybase and Rdb running on VAX/VMS. Reverse Engineering allows the developer to download data schema to Deft's repository offering the ability to modify and/or document existing applications. Forward engineering using Deft's object file will generate SQL schema and forms. This utility provides versioning and automatic compilation and linking.
Part No.: N/A; Price: \$10,000-\$20,000

Digital Equipment Corporation

Products: ALL-IN-1 for the Macintosh, DECLanWORKS for Macintosh, SQL Services for Macintosh
30 Porter Rd. (LJO2/C10), Littleton, MA 01460

Distributed Technologies, Inc.

Product: NetShare 1.0
1982358th Place South, Kent, WA 98032, 206-395-7800

DL2000

Dayna Communications
50 S. Main St., Suite 530
Salt Lake City, UT 84144
801-531-0600
page 97

The DL2000 is a LocalTalk adapter for standard IBM-compatible bus computers. It supports DaynaNET, NetWare and TOPS network operating systems over LocalTalk, PhoneNET, or compatible cables systems. As well as supporting AFP, the DL2000 also supports NetWare NCP and IPX protocols. This allows complete access to all NetWare features, including print spooling and administration, over LocalTalk cables.
Part No.: DT0500; Price: \$299

- DL/2** The DL/2 is a LocalTalk adapter for Micro Channel bus IBM-compatible computers. The DL/2 supports DaynaNET, NetWare and TOPS network operating systems over LocalTalk, PhoneNET, or compatible cable systems. As well as supporting AFP, the DL2000 also supports NetWare NCP and IPX protocols. This allows complete access to all NetWare features, including print spooling and administration, over LocalTalk cables.
 Dayna Communications
 50 S. Main St., Suite 530
 Salt Lake City, UT 84144
 801-531-0600
page 97 Part No.: DT0600; Price: \$399
- Doradus Corporation** Product: 3270 Doradus Solution 1.09
 6095 E. River Rd., Minneapolis, MN 55432, 612-572-1000
- DOS-Connect** DOS Connect is a software application that allows IBM PCs and compatibles on AppleTalk to share serial peripherals. DOS Connect is used with the Shiva Net Modem V2400 or Net Modem V.32 to allow modem sharing, or with the Shiva Net Serial or Ether Gate to allow the sharing of any serial device.
 Shiva Corporation
 155 Second St.
 Cambridge, MA 02141
 617-864-8500
page 96 Part No.: N/A; Price: \$99
- DOS Mounter** DOS Mounter is a utility that lets the Apple FDHD Super Drive access MS-DOS disks from the desktop, instead of through Apple File Exchange. With DOS Mounter in the System Folder, MS-DOS disks appear on the desktop and behave like Macintosh disks. Subdirectories are shown as folders, and files as document icons. DOS Mounter contains Extension Mapping, a feature that links MS-DOS file extensions with Macintosh applications.
 Dayna Communications
 50 S. Main St., Suite 530
 Salt Lake City, UT 84144
 801-531-0600
page 101 Part No.: DS0200; Price: \$89
- DTSX-14** The DTSX-14 is an intelligent co-processor card for the Macintosh II that provides X.25 access to packet-switched wide area networks (WAN). Input/output to the card and to the WAN is accomplished via Symcicon's SYMNIX. This driver, which runs under A/UX, can allow an application program to access STS at any of the four OSI layers.
 Symcicon, Inc.
 23545 Crenshaw Blvd., Suite 104
 Torrance, CA 90505
 213-530-2610
page 151 Part No.: N/A; Price: \$1395
- DuPont 10BaseT Networking System** Du Pont's LAN ONE Plus Ethernet 10BaseT Networking System provides a flexible means of directly interconnecting Ethernet stations via unshielded twisted-pair, shielded twisted-pair, fiber-optic, and cable. The system consists of an Ethernet or Universal concentrator that acts as the hub for the system and a variety of modules that allow users to tailor the system to fit their needs.
 DuPont Connector Systems
 3300 Gateway Center Blvd.
 Morrisville, NC 27560
 800-888-LAN1
page 73 Part No.: N/A; Price: \$188/node and up
- DuPont 10BaseT Transceiver** Du Pont's LAN ONE 10BaseT transceiver provides users with the ability to interconnect data terminal equipment using any standard Ethernet adapter card to unshielded twisted-pair cabling. The transceiver (ETT-001) can be attached via the AUI connection on an Ethernet adapter card or with standard AUI cable.
 DuPont Connector Systems
 3300 Gateway Center Blvd.
 Morrisville, NC 27560
 800-888-LAN1
page 74 Part No.: N/A; Price: \$159
- DuPont Connector Systems** Products: Fiber-Optic LAN for AppleTalk, 10BaseT Networking System, 10BaseT Transceiver, Portable Ethernet Transceiver Tester (PETT), RL3000 Coax Transceiver, Ethernet Local Bridge Module with Management, Local and Remote Repeater, Fiber-Optic Inter-Repeater Link, Token Ring Media System
 3300 Gateway Center Blvd., Morrisville, NC 27560, 800-237-2374

DuPont Ethernet Local Bridge Module with Management

DuPont Connector Systems
3300 Gateway Center Blvd.
Morrisville, NC 27560
800-888-LAN1
page 75

Fiber-optic local area network (Model ELB-001) brings bridge functions to a LAN ONE Universal Concentrator or Multiport Repeater Chassis. The ELB-001 is a complete hardware and software solution for controlling Ethernet subnetworks in complex data communications environments. DuPont's ELB-001 can confine failures to a single segment and provides users with the capability of building redundant links between subnetworks.
Part No.: ELB-001; Price: \$4995

DuPont Fiber Optic LAN for AppleTalk

DuPont Connector Systems
3300 Gateway Center Blvd.
Morrisville, NC 27560
800-237-2374
page 72

DuPont's LAN ONE Plus AppleTalk products for the AppleTalk networking system allow Macintosh work groups to expand in area, number of users, and distance between stations by extending the reach of the AppleTalk network system cable interconnection through the use of fiber-optic cable. DuPont LAN ONE Plus AppleTalk networks can be configured in several ways: as a linear bus (like the AppleTalk network system), as a star topology, or as a combination of both.
Part No.: N/A; Price: \$230 to \$285

DuPont Fiber-Optic Inter-Repeater Link

DuPont Connector Systems
3300 Gateway Center Blvd.
Morrisville, NC 27560
800-888-LAN1
page 74

Fiber-Optic Inter-Repeater Link (FOIRL) Transceivers provide a straightforward approach to implementing a fiber-optic Ethernet system. Using fiber-optic cable the user can construct point-to-point links between remote stations, multiport transceivers, repeaters, or bridges. The FOIRL transceivers assist in network diagnosis and monitoring.
Part No.: EOT-322; Price: \$550

DuPont Local and Remote Repeaters

DuPont Connector Systems
3300 Gateway Center Blvd.
Morrisville, NC 27560
800-888-LAN1
page 75

DuPont's LAN ONE RL6000 Li Ethernet Local Repeater and RL6000 Fi Ethernet Remote Repeater provides interconnection of IEEE 802.3/Ethernet Version 2.0 local area network segments. RL6000 Li uses two Ethernet Attachment Unit Interface (AUI) cables up to 50 meters in length to interconnect coax, twisted-pair, or fiber-optic network segments. RL6000 Fi can replace separate local repeaters and optical transceivers.
Part No.: RL6000 Li Ethernet Local Repeater; Price: \$795
Part No.: RL6000 Fi Ethernet Remote Repeater; Price: \$1495

DuPont Portable Ethernet Transceiver Tester (PETT)

DuPont Connector Systems
3300 Gateway Center Blvd.
Morrisville, NC 27560
800-237-2374
page 76

DuPont's Portable Ethernet Transceiver Tester (PETT) is an Ethernet LAN installation tester and troubleshooting tool. It has the flexibility to be used with coaxial cable, twisted pair, and fiber-optic media and transmission equipment. The PETT can assist users in verifying conformance to Ethernet/IEEE 802.3 specifications, as well as measure important transmission performance parameters.
Part No.: N/A; Price: \$3500

DuPont RL3000 Coax Transceiver

DuPont Connector Systems
3300 Gateway Center Blvd.
Morrisville, NC 27560
800-888-LAN1
page 76

DuPont's LAN ONE RL3000 Ethernet Coax Transceiver provides access from data terminal equipment to Ethernet local area networks for transmitting and receiving data packets. It is compatible with IEEE 802.3 and Ethernet Version 2.0 specifications, and allows Carrier Sense Multiple Access with Collision Detection network operation at a full 10 Mb/s. It provides user selectable SQE test and extensive diagnostic LED indicators.
Part No.: N/A; Price: \$199

DuPontTokenRingMediaSystem

DuPontConnectorSystems
3300GatewayCenterBlvd.

Morrisville,NC27560

800-888-LAN1

page76

DuPont's fiber-optic Token Ring Media System can provide interconnection of up to 34 token ring (IEEE 802.5) and IBM-compatible stations (DTE) or Multi-Station Access Units (MSAUs) using fiber optic cable. This system supports data rates up to 16 Mb/s, and is adaptable to changing token ring environments.

Part No.: N/A; Price: \$420 per node and up

DuPontTokenRingTransceivers(TRT)

DuPontConnectorSystems
3300GatewayCenterBlvd.

Morrisville,NC27560

800-888-LAN1

page77

DuPont's Token Ring Transceivers connect IBM and IEEE 802.5 compatible token ring networks with fiber-optic technology. The TRT builds a fault network by providing noise immunity, security, and has the ability to extend distances between stations. TRTs interconnect with either ring in, ring out, lobe ports of multi-station access units, or directly to DTE.

Part No.: N/A; Price: \$850 and up

EDICommunicationsCorp.

Product: MacToken

20440TownCenterLn.,#4E1,Cupertino,CA95014,408-996-1343

EngageCommunications,Inc.

Product: SyncRouter

756MarlinAve.,Suite4,FosterCity,CA94404

Ether+

CompatibleSystemsCorp.

P.O.Box17220

Boulder,CO80301

303-444-9532

page69

Ether+ provides a direct connection to Ethernet networks for all Macintosh computers equipped with a SCSI port. The Ether+ equipped Macintosh computer can utilize third-party software to communicate over high-speed Ethernet networks with other Macintosh computers and a variety of Ethernet-based computers systems, including UNIX systems, Digital VAX computers, and PCs.

Part No.: Ether+; Price: \$495

Ether2

CompatibleSystemsCorp.

P.O.Box17220

Boulder,CO80301

303-444-9532

page10

Ether2 is an Ethernet NuBus card for all Macintosh II family computers. The Ether2-equipped Macintosh can utilize third-party software to communicate over high-speed Ethernet networks with other Macintosh computers and a variety of Ethernet-based computers systems, including UNIX systems, Digital VAX computers and PCs.

Part No.: Ether2; Price: \$395

EtherGate

ShivaCorporation

155SecondSt.

Cambridge,MA02141

617-864-8500

page69

EtherGate is an Ethernet gateway which permits connections to local and remote LocalTalk networks, shared serial peripherals, and single remote Macintosh computers.

Part No.: N/A; Price: \$2399

EtherLink/NB

3ComCorporation

3165KiferRd.

SantaClara,CA95052-8145

408-562-6400

page54

EtherLink/NB is an Ethernet adapter designed to plug into an expansion slot of the Macintosh II computer. It provides users with a high speed data transfer rate of 10 Mbps and uses Apple's standard EtherTalk driver. The board is compatible with software products written to this standard. It is compatible with 3Com MultiConnect products which allow users to run Ethernet on twisted-pair wire.

Part No.: 3C543; Price: \$595

EtherLink/SE EtherLink/SE is an Ethernet adapter designed to plug into an expansion slot of the Macintosh SE computer. It provides users with a high speed data transfer rate of 10Mbps. The EtherLink/SE driver is compatible with Apple's EtherTalk driver and is compatible with software products written to this standard. The EtherLink/SE is compatible with 3Com MultiConnect products which allow users to run Ethernet on twisted-pair wire.
3Com Corporation
3165 Kifer Rd.
Santa Clara, CA 95052-8145
408-562-6400
Part No.: 3C563; Price: \$595
page 55

EtherMac II and EtherMac II/10T The EtherMac II is a NuBus card that provides a direct attachment to Ethernet for any Macintosh II computer. It is port compatible with Apple's EtherTalk driver and actually uses the same driver. EtherMac II/10T comes with an RJ-45 modular phone connector for twisted-pair Ethernet and a 15-pin D connector for thick Ethernet. It has a built-in twisted-pair Ethernet transceiver and supports 10BaseT Ethernet. It is compatible with any 10BaseT compliant concentrator.
Adaptec
691 S. Milpitas Blvd.
Milpitas, CA 95035
408-945-2518
Part No.: EtherMac II; Price: \$495
page 11
Part No.: EtherMac II/10T; Price: \$595

EtherPeek EtherPeek is a software-only network management tool for monitoring and debugging the Ethernet from a Macintosh. EtherPeek captures ALL packet traffic or limits itself to a specified subset. It displays or prints the captured packets in several formats including protocol templates. EtherPeek also "saves" and "restores" captured packets or sends user-constructed packets onto Ethernet.
The AG Group
Station B, P.O. Box 26728
San Francisco, CA 94125
415-937-2447
Part No.: N/A; Price: \$475
page 84

EtherPort SE/30L The EtherPort SE/30L Ethernet controller card for the Apple Macintosh SE/30 features one unshielded twisted-pair RJ-45 modular receptacle and one AUI connector on the same card. The EtherPort SE/30L carries SynOptics' on-board LattisNet transceiver, which allows Macintosh SE/30 computers to connect directly to unshielded twisted-pair LattisNet networks.
Novell, Inc.
1340 Treat Blvd., #500
Walnut Creek, CA 94596
Part No.: 9900118-00; Price: \$645
page 10

EtherPort SEL The EtherPort SEL Ethernet controller card for the Apple Macintosh SE features one unshielded twisted-pair RJ-45 modular receptacle and one AUI connector on the same card. The EtherPort SEL carries SynOptics' on-board LattisNet transceiver, which allows Macintosh SE computers to connect directly to unshielded twisted-pair LattisNet networks.
Novell, Inc.
1340 Treat Blvd., #500
Walnut Creek, CA 94596
Part No.: 9900134-00; Price: \$645
page 10

eXodus eXodus is a Color X Window System Display server that turns the Macintosh into an X Window Workstation. eXodus interacts with applications (including DEC windows), running on a variety of host computer systems such as Digital VMS and ULTRIX, and other UNIX based systems. eXodus features multiple window support; auto client launch; modeless dialogs, including color and client editors; and cutting and pasting of both graphics and text to the Macintosh Clipboard.
White Pine Software
P.O. Box 1108
Amherst, NH 03031
603-886-9050
Part No.: N/A; Price: Contact Supplier
page 160

Fairfield Software Product: ClearAccess
200 West Lowe, Fairfield, IA 52556, 800-522-4254

Farallon Computing, Inc. Products: PhoneNET Card, PhoneNET CheckNet, PhoneNET Connector, PhoneNET Repeater, PhoneNET Star Controller Series 300, Farallon Portable Pack, Network Manager's Pack, Network Administrator's Utility, Timbuktu, Timbuktu/Remote.
2000 Powell St., #600, Emeryville, CA 94608, 415-596-9100

- Farallon Portable Pack**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 18
- Farallon Portable Pack is a network for the Macintosh Portable and contains two of the following: StarConnectors, Timbuktu, and Timbuktu/Remote file transfer and screen sharing software. With Timbuktu/Remote, users can use the Macintosh Portable to exchange files and share screens over telephone lines. With StarConnectors, users can connect a Macintosh Portable to an AppleTalk LAN at another site, and with Timbuktu, exchange files and share screens across the network.
Part No.: SW495; Price: \$495
- FastPath 4 Gateway**
Shiva Corporation
155 Second St.
Cambridge, MA 02141
617-864-8500
page 14
- The FastPath 4 Gateway connects AppleTalk workgroups to Ethernet networks, allowing Macintosh computers on LocalTalk access to systems/services on Ethernet. Macintosh users can participate in internetworks of heterogeneous machines, including other Macintosh computers, PCs, NetWare servers, VAX computers, UNIX systems, and remote networks.
Part No.: 9900072-01; Price: \$2795
- FAXGATE**
Solutions, Inc.
30 Commerce St.
Williston, VT 05495
802-865-9220
page 17
- FAXGATE sends and receives faxes using Microsoft Mail 2.0 or QuickMail, a single phone line and one BackFAX-compatible fax modem. FAXGATE includes a 5-Pack of MailMaker which lets users create electronic printouts of most Macintosh applications, which may be sent out to any Group 3 fax device via FAXGATE or around the local area network.
Part No.: N/A; Price: \$395
- FlexFAX**
Circuit Research
4 Townsend West, Suite #3
Nashua, NH 03063
603-880-4000
page 80
- FlexFAX/Faxgate provides a link from the Macintosh workstation to any facsimile machine worldwide. Residing on any Microsoft Mail, QuickMail, or InBox server, FlexFAX/Faxgate allows 9600 bps facsimile capability. When fax facilities are not in use, FlexFAX can be used as a Hayes compatible 2400 bps modem by other installed gateways.
Part No.: 9624M; Price: \$895
- FOUNDATION CBT**
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
page 202
- Menlo's computer-based training system, FOUNDATION CBT, is an authoring process for computer based training. Instructional designers use a graphic point-and-click Macintosh authoring platform to deliver training to a wide variety of devices, terminals and workstations.
Part No.: N/A; Price: Contact Supplier
- FOUNDATION Graphics Toolbox**
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
page 201
- FOUNDATION Graphics Toolbox, in combination with MACMENLO, is a software bridge that connects a Macintosh to a Tandem computer, and provides a graphic capability for Tandem computer mainframe applications. In addition to the Tandem mainframe access window, a second window can be opened that supports all native Macintosh graphics, both bitmapped and object oriented.
Part No.: N/A; Price: \$19,500
- FOUNDATION Vista**
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
page 201
- FOUNDATION Vista is a Computer Aided Software Engineering (CASE) product offering an set of integrated tools for on-line application analysis and design. FOUNDATION Vista, which is Macintosh computer-based, compliments the FOUNDATION application development system and is SQL oriented. The system automates the documentation and diagramming process.
Part No.: N/A; Price: \$8900

- FOUNDATION Vista Translator**
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
page 201
- The Translator automatically interfaces compiled Vista designs with the Tandem environment by generating PATHWAY screen definitions and DDL components. The Vista Translator also reverse engineers DDL source from the Tandem environment to the entity Relationship Module of the Vista Design Workbench.
Part No.: N/A; Price: \$16,000
- GatorBox**
Cayman Systems
26 Landsdowne St.
Cambridge, MA 02139
617-494-1999
page 150
- The GatorBox connects an entire Macintosh network to Ethernet, offering physical connections for LocalTalk and standard and thin Ethernet. The hardware supports AppleTalk routing so Macintosh users on both LocalTalk and Ethernet can share laser printers, E-mail, and storage. GatorBox also supports TCP/IP for terminal sessions from Macintosh computers to UNIX hosts.
Part No.: 10100-1; Price: \$2795
- GatorCard E/II**
Cayman Systems
26 Landsdowne St.
Cambridge, MA 02139
617-494-1999
page 150
- The GatorCard E/II connects any Macintosh II, IIx or IIcx directly to standard or thin Ethernet. It lets Macintosh users share files, use electronic mail software and print over the 10Mbit per second Ethernet network. Software included with GatorCard E/II also supports TCP/IP and DECnet. The GatorCard E/II software also includes NCSA Telnet, a terminal emulation program that lets the Macintosh user log on to TCP/IP workstations.
Part No.: N/A; Price: \$595
- GatorMail-Q**
Cayman Systems
26 Landsdowne St.
Cambridge, MA 02139
617-494-1999
page 161
- GatorMail-Q is a bridge between CE Software's QuickMail and UNIX mail systems on SMTP networks. It integrates electronic mail on multiple platforms including Macintosh, AT&T, Digital, Sun, Silicon Graphics, and Apollo. Features include mail exchange, aliasing, and data enclosures. Using GatorMail-Q, QuickMail users can send mail to remote sites over worldwide TCP/IP networks like the Internet.
Part No.: 10200-2; Price: \$995
- GatorShare**
Cayman Systems
26 Landsdowne St.
Cambridge, MA 02139
617-494-1999
page 154
- GatorShare software provides transparent file service between Macintosh and UNIX computers. Using the AppleShare interface, Macintosh users can store and retrieve files on Ethernet hosts that support Network File System (NFS). GatorShare runs on the GatorBox and translates between AppleShare and NFS, eliminating the need to add AppleTalk protocols to the UNIX kernel.
Part No.: 10200-1; Price: \$1995
- Gizmo Technologies**
Product: Send Express 1.0
P.O. Box 14177, Fremont, CA 94539, 415-623-7899
- GQL/Admin v2.0**
Andyne
544 Princess St., Suite 202
Kingston, Ontario K7L 1C7
613-548-4355
page 40
- GQL/Admin allows database administrators to develop customized graphic data models for GQL/User. The database schema is loaded from the host system, and join conditions are specified. The graphic data model can have alias names to increase readability. Executive buttons with stored queries and annotations can be added.
Part No.: N/A; Price: \$1995
- GQL/Design v2.0**
Andyne
544 Princess St., Suite 202
Kingston, Ontario K7L 1C7
613-548-4355
page 40
- GQL/Design is a prototyping tool that provides a graphic interface for creating new databases. It supports entity relationship design method and includes built-in design checks and design reports. It can create tables directly on host or generate SQL script files. Data models can be used directly by GQL/User.
Part No.: N/A; Price: \$995

- GQL/Userv2.0** GQL/User allows users to retrieve information from host computers using a graphic point-and-click interface. Users view the database as a graphic data model representing the data objects and relationships. Results are presented in spreadsheet format, and can be manipulated within GQL/User or exported to other applications.
 Andyne
 544 Princess St., Suite 202
 Kingston, Ontario K7L 1C7
 613-548-4355
page 40
 Part No.: N/A; Price: \$295
- Grafpoint** Product: TGRAF-07/Mac
 1485 Saratoga Ave., San Jose, CA 95129-4934, 408-446-1919
- Grappler LX** The Grappler LX is a parallel printer interface capable of connecting most 24-pin and laser printers to any Macintosh with at least 1 MB of RAM. By converting ImageWriter LQ codes into output other printers will understand, the Grappler supports models from Epson, Hewlett Packard, Panasonic, Star Micronics, and other manufacturers. The Grappler comes with seven complete fonts, and is compatible with Adobe ATM.
 Orange Micro, Inc.
 1400 N. Lakeview Ave.
 Anaheim, CA 92807
 800-223-8029
page 99
 Part No.: N/A; Price: \$199
- h-Threesystems** Products: MacRing SE, MacRing NB, MacRing SE/30
 P.O. Box 12557, Research Triangle Park, NC 27709, 800-MAC-RING
- HandOff II** HandOff II allows all files to be opened directly from the Finder, even if the application is missing or if the files were transferred to the Macintosh from another computer. HandOff II includes a file launcher. Users can build a pop-up menu of applications and documents and access the menu anytime with a click of the mouse. HandOff II can also be configured to change the color depth and sound level when launching or switching applications.
 Software Innovations, Inc.
 P.O. Box 811
 Allen, TX 75002
 214-727-2329
page 104
 Part No.: N/A; Price: \$80
- Hayes InterBridge** Hayes InterBridge provides a means of expanding an AppleTalk work group in a local environment, reorganizing network traffic flow among work groups, or connecting a remote work group with a local network. InterBridge can support one local bridge and two remote bridges simultaneously.
 Hayes Microcomputer Products
 P.O. Box 105203
 Atlanta, GA 30348
 404-449-8791
page 78
 Part No.: N/A; Price: \$799.
- Hayes Microcomputer Products** Products: InterBridge, SMARTCOM III for the Macintosh, Smartmodem 1200, Smartmodem 2400, Smartmodem 2400M, V-Series System Products, Smartmodem 9600
 P.O. Box 105203, Atlanta, GA 30348, 404-449-8791
- Helix VMX** Helix VMX is a multi-user database application development environment for VAX/Macintosh networks. It allows users to create applications on the Macintosh using a visual toolkit, and run them without modification on a Digital VAX system under the VMS operating system. Macintosh computers access these VAX applications by functioning as intelligent workstations connected to the VAX system.
 Odesta Corp
 4084 Commercial Ave.
 Northbrook, IL 60062
 800-323-5423
page 133
 Part No.: N/A; Price: \$4500 to \$70,000

HyperCard v2.0 HyperCard v2.0, a major revision of the Macintosh computer program, is a personal software package which lets users manage information using virtually any type of media. Based on the index card metaphor, HyperCard v2.0 takes advantage of the Macintosh interface to let users explore and build applications ranging from personal information managers to multimedia software and mainframe interfaces.
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 33 Part No.: M0556/B; Price: HyperCard 2.0 is included with every Macintosh computer. Upgrades or replacement copies can be purchased for \$49

ICP (Intelligent Communications Processor) ICP is an intelligent communications processor for the Macintosh II family of computers. Features include the Motorola 68000 microprocessor; 512K RAM with no-wait states; up to four RS-232 DTE ports, two of which are configurable to AppleTalk; and compatibility with A/UX, Mr. DOS, and the Macintosh operating system.
Orange Micro, Inc.
1400 N. Lakeview Ave.
Anaheim, CA 92807
714-779-2772
page 155 Part No.: N/A; Price: \$949 to \$999

IDEAcomm Mac 2.0 IDEAcomm Mac is a 5250 terminal emulation board which allows the Macintosh SE and Macintosh II family to have multiple host sessions on and transfer data from the IBM Midrange family, the IBM S/36, S/38 and AS/400. It attaches via a winax cable to the host.
IDEA Associates
29 Dunham Rd.
Billerica, MA 01821
508-663-6878
page 182 Part No.: Mac2/5251 for the Macintosh II; Price: \$1195
Part No.: MacSE/5251 for the Macintosh SE; Price: \$995

IDEA Associates Product: IDEAcomm Mac
29 Dunham Rd., Billerica, MA 01821, 508-663-6878

InBox 3.0 InBox 3.0 is an electronic mail system for Macintosh and DOS computers. No central administration is needed and the software comes ready for up to 20 users; Macintosh and PC software is included. Features include Address Books for personal recipient-list management, and local Storage Boxes to organize mail.
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
page 56 Part No.: 600-2496; Price: \$329

InBox Plus InBox Plus is an electronic mail system for Macintosh and DOS computers. It routes mail between Message Centers (up to 100 users each) for use on networks of any size. InBox Plus supports Gateways for connectivity to other mail systems such as VMS Mail, X.400, SMTP, and PROFS.
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
415-769-9669
page 56 Part No.: 600-2493; Price: \$995

Information Presentation Technologies Products: Personal Server Network 2.0, uShare
23801 Calabasas Rd., Suite 2008, Calabasas, CA 91302, 818-347-7791

Informix Software, Inc. Product: Wingz-DataLink
16011 College Blvd., Lenexa, KS 66219, 913-599-7100

Infosphere Product: Liaison
4730 SW Macadam Ave., Portland, OR 97201, 503-226-3620

Insignia Solutions Product: SoftPC
254 San Geronimo Wy., Sunnyvale, CA 94086, 408-522-7600

Integrated Computer Solutions Products: OSF/Motif 1.03 for A/UX 2.0, XView 2.0 with OPENLOOK for A/UX 2.0
163 Harvard St., Cambridge, MA 02139, 617-547-0510

Integrated Solutions Product: Central System Manager (CTM) v2.01
1020 Eighth Ave., King of Prussia, PA 19406, 215-337-2282

InterCon Systems, Corp. Products: TCP/Connect II, Telnet Driver
950 Herndon Pkwy. Suite 390, Herndon, VA 22070, 703-709-9890

Interpreter, Inc. Product: SmartTalk
11455 West 48th Ave., Wheat Ridge, CO 80033, 800-232-4687

Inter-Poll Network Administrator's Utility The Inter-Poll Network Administrator's Utility contains tools to implement a network support system. These tools cover network mapping, trouble-shooting methods, selective searches for active devices, network-link integrity tests, and version reporting for workstation. Inter-Poll supports a multivendor AppleTalk network, including Macintosh, MS-DOS & PS/2 and Digital VAX computers.
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
Part No.: M0687; Price: 129
page 22

IPGate IPGate provides the LocalTalk to Ethernet router with AppleTalk, AppleTalk to TCP/IP (KIP and CAP-style encapsulation) and MSP to TCP routing and gateway functionality. IPGate adheres to TCP/IP "Interior Gateway" specifications RFC-950 and proxy-ARP. Features include network management interface, security controls and SNMP support.
Network Resources Corp.
2450 Autumnvale Dr.
San Jose, CA 95131
408-263-8100
Part No.: N/A; Price: \$395
page 152

JetStream JetStream tape backup system archives 2.5 gigabytes on one 8mm helical scan format videotape cartridge, with a speed of up to 14.4 Mbs per minute. It backs up multiple drives, crosses time zones, and is bundled with NetStream v2.0 which provides unattended network backups.
Personal Computer Peripheral Corp.
4170 Eisenhower Blvd.
Tampa, FL 33634
813-884-3092
Part No.: N/A; Price: \$4279
page 13

K-AShare K-AShare is an AFP-compatible file server software for UNIX hosts. K-AShare provides all the benefits of UNIX hosts while allowing transparent implementation of AppleShare for Macintosh users. To access K-AShare, Macintosh users go into the Chooser, select a network zone and then select AppleShare. K-AShare appears as an AppleShare icon on the desktop.
Mt. Xinu, Inc.
2560 Ninth St., #312
Berkeley, CA 94710
415-644-0146
Part No.: N/A; Price: \$995 to 5395
page 152

K-Spool K-Spool software allows users of Apple Macintosh computers and UNIX systems to share PostScript printers. It is a UNIX application which functions as a print server for the Macintosh. K-Spool advertises its address to Macintosh computers as a LaserWriter, allowing Macintosh users to see it through the familiar Chooser.
Mt. Xinu, Inc.
2560 Ninth St., #312
Berkeley, CA 94710
415-644-0146
Part No.: N/A; Price: \$695
page 152

- KEYpak** KEYpak software, running on either a computer system or local area network (LAN) server, allows users to exchange documents between otherwise incompatible document processors or word processing systems and is designed to provide flexibility for revisable document exchange between end-users on different computer systems by supporting system interchange architectures.
Part No.: N/A; Price: \$1000 to \$100,000
- Keyword Office Technologies
2816 Eleventh St., NE
Calgary, Alberta, Canada T2E 7S7
403-250-1770
page 126
- Keyword Office Technologies** Product: KEYpak
2816 Eleventh St. NE, Calgary, Alberta, Canada T2E 7S7, 403-250-1770
- LANONE Plus Ethernet** Du Pont's LANONE Plus Ethernet Multimedia Ethernet System supports requirements for multiple types of media and networks within the same LAN hardware base. Comprised of concentrators, media connectivity modules, and media access units (MAUs).
Part No.: N/A; Price: \$188 per node and up
- Du Pont Connector Systems
3300 Gateway Center Blvd
Morrisville NC 27560
800-888-LAN1
page 73
- LanWay TR 16/4** LanWay TR 16/4 is a token ring (IEEE 802.5) NuBus LAN Interface adapter used in the Macintosh NuBus family (II, IIx, IIcx, IIci and IIfx systems). LanWay TR 16/4 SE/030 adapter is a token ring (IEEE 802.5) interface card for use in the SE/030. The LANWay token ring card is equipped with Texas Instruments TMS380C16 token ring processor, and is capable of both 16 Mbps and 4 Mbps operation in a single adapter.
Part No.: N/A; \$1095
- Tri-Data Systems, Inc.
3270 Scott Blvd.
Santa Clara, CA 95054
408-727-3270
page 186
- LanWork Place for Macintosh** LanWork Place for Macintosh provides Apple Macintosh users with transparent access to a broad range of hosts, servers, and workgroups on a local area network. Remote sessions look and feel as if they reside on the Macintosh desktop. LAN Work Place for Macintosh consists of TCP/IP transport system software and Host Access network application software.
Part No.: 9870074-00; Price: \$250
- Novell, Inc.
122 East 1700 South
Provo, UT 84606
800-LAN-KIND
page 52
- LattisNet LAN Utility Solutions** LattisNet products implement connectivity, internetworking and network management solutions for complex environments. LattisNet concentrators reside in a building's wiring closet to provide basic connectivity for Apple Macintosh computers and other host devices. LattisNet Workgroup concentrators implement IEEE 802.3 Ethernet connectivity at 10 megabits per second (Mb/s) over unshielded twisted pair wire configured in an active hierarchical star for small, entry-level networks.
- SynOptics Communications
501 E. Middlefield Rd.
Mountain View, CA 94043-4015
800-PRO-8023
page 70
- Model 3000 Premises Concentrator
Model 3030 Department Concentrator
Model 1000 Premises Concentrator
Model 1010 Department Concentrator
Model 2510 Retiming Workgroup Concentrator
Price: \$160 to \$350 per node
Model 2530 AUI/UTP Workgroup Concentrator
Price: \$1495

LattisNet Network Management Modules

SynOptics Communications
501 E. Middlefield Rd.
Mountain View, CA 94043-4015
800-PRO-8023
page 71

LattisNet Network Management modules reside in LattisNet concentrators, where they gather specific performance and diagnostic information. This information is forwarded to a central control console, where LattisNet Network Management software displays it as part of graphics-oriented map of the network. Boxes, representing concentrators, appear in their proper place within the hierarchy, and colored bars provide network status information at a glance.

Model 213 AUI Network Management Module with Built-in Modem
Model 218-ST ST Fiber Network Management Module with Built-in Modem
Model 3324-ST Fiber Network Management Module with Built-in Modem
Model 3313 MAUI Network Management Module with Built-in Modem
Model 3314 M-ST Fiber Network Management Module with Built-in Modem
Model 633M Network Management Control Console Package with Built-in Modem
Price: \$50 per node

LattisNet System 3000 Ethernet Local Bridge Modules

SynOptics Communications
501 E. Middlefield Rd.
Mountain View, CA 94043-4015
800-PRO-8023
page 70

LattisNet System 3000 Ethernet networks support integrated internetworking functions via the LattisNet Ethernet local bridge module. The LattisNet local bridge directs data traffic based on Ethernet addresses assigned to each network device. The LattisNet Ethernet local bridge filters data traffic at 10,000 frames per second and forward 7000 frames per second on a bidirectional basis.

Model 3323 AUI Ethernet Local Bridge Module
Model 3324-ST Fiber Ethernet Local Bridge Module
Model 3320S Ethernet Local Bridge Manager Software
Price: Ethernet Local Bridge Modules, \$4195 to \$4595

Liaison

Infosphere
4730 SW Macadam Ave.
Portland, OR 97201
800-445-7085
page 14

Liaison is a software product that can connect AppleTalk networks running on LocalTalk cable, or remote AppleTalk networks, to ARCNET compatible hosts using Novell NetWare for Macintosh. Liaison can also connect LocalTalk cable to a high-speed Ethernet backbone, or connect AppleTalk networks running on LocalTalk cable to EtherTalk compatible hosts such as Digital's VAX systems.
Part No.: 38212-040; Price: \$295

LocalTalk Cable System

Apple Computer Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 7

The LocalTalk cable system is a standard work-group cable system that uses shielded twisted-pair wire. It sets the standard for other cable systems that use the AppleTalk protocols. It allows up to 32 devices to be connected per network segment and operates at a bandwidth of 230.4 Kbps. Each segment can span a distance of 1000 feet (with a maximum distance between nodes of 1000 feet), and network segments can be interconnected using bridges.

M2066 LocalTalk Locking Cable Kit (10 meter); Price: \$75
M2068 LocalTalk Locking Connector Kit-din 8; Price: \$75
M2065 LocalTalk Locking Connector Kit-DB9; Price: \$75
M2069 LocalTalk Locking Cable Kit (25 meter); Price: \$125
M2070 LocalTalk Custom Wiring Kit; Price: \$849
Approximate System Cost: \$200 to \$900

LocalTalk PC Card

Apple Computer Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 96

The LocalTalk PC Card connects a PC-compatible computer to an AppleTalk network, allowing the user to print documents on the Apple LaserWriter and LaserWriter II family of laser printers. With additional software, PC-compatible computers equipped with the LocalTalk PC Card can access other network services on the AppleTalk network, including file sharing and electronic messaging.
Part No.: M0040LL/B; Price: \$299

LT200LocalTalkInterfaceBoard

DayStar Digital
5556AtlantaHwy.
FloweryBranch,GA30542
404-967-2077
page98

TheLT200enablesIBMPCorPS/2stouseLocalTalkprintersoraccessTOPSorAppleShare. TheLT200iscompatiblewithNovell'sNetWare,3Com3+Open,AppleShare2.0,andincludesprinter utilities that allowPCstoprnttoPostScriptprinters.
PartNo.:N/A;Price:\$249retailforPCstandardbus
PartNo.:N/A;Price:\$395retailforMicroChannel

Mac86

OrangeMicro,Inc.
1400N.LakeviewAve.
Anaheim,CA92807
800-223-8029
page98

Mac86isa4.77Mhz8086coprocessorboardfortheMacintoshSE(SE/30notsupported).Although this solution uses the Macintosh computer's RAM for processing, it is still capable of many multitasking operations due to its on-board processor. Benchmark-rated at better than IBM-XT speeds, Mac86 requires no accelerator to operate.
PartNo.:N/A;Price:\$699

Mac220

WhitePineSoftware
P.O.Box1108
Amherst,NH03031
603-886-9050
page130

ADECVT220terminal emulator with support of large-screen monitors, 132-column mode, function and user-defined keys, DRCS, double-wide and double-high characters and blinking. Includes Kermit, XMODEM and YMODEM file transfer capability. Connect to the VAX directly through a modem, or over a network. Mac220 supports DECnet and TCP/IP protocols and works with the Macintosh Communications Toolbox.
PartNo.:N/A;Price:\$129to\$300

Mac240

WhitePineSoftware
P.O.Box1108
Amherst,NH03031
603-886-9050
page130

Mac240featuresfile-transfercapabilitiesusingKermit,XMODEM,andYMODEMprotocols.Mac240 supports ReGIS and Sixel graphics, and also emulates Tektronix terminals. Other features include color background, command key equivalents, resizable and multiple windows, scrolling capabilities, and review buffers to allow reading or printing of scrolled text. Mac240 supports DECnet and TCP/IP protocols and works with the Macintosh Communications Toolbox.
PartNo.:N/A;Price:\$129to\$300

Mac241

WhitePineSoftware
P.O.Box1108
Amherst,NH03031
603-886-9050
page130

Mac241 features complete file-transfer capabilities using Kermit, XMODEM, and YMODEM protocols. Mac241 supports ReGIS and Sixel graphics, and also emulates Tektronix terminals. Other features include command key equivalents, resizable and multiple windows, scrolling capabilities, and review buffers to allow reading or printing of scrolled text. Mac241 supports DECnet and TCP/IP protocols and works with the Macintosh Communications Toolbox.
PartNo.:N/A;Price:\$129to\$300

Mac286

OrangeMicro,Inc.
1400N.LakeviewAve.
Anaheim,CA92807
800-223-8029
page98

Mac286is an 8Mhz80286coprocessorboardfortheMacintoshIIseries. It allows the use of most DOS applications in a standard Macintosh window, even under MultiFinder. Mac286 has its own processor and RAM on board. Mac286 supports CGA, MDA, and Hercules display modes, using the Macintosh monitor in all cases.
PartNo.:N/A;Price:\$1599

MacAPPC

APDA(AppleProgrammers&Developers
Association)
20525MarianiAve.,MS33G
Cupertino,CA95014
800-282-2732(U.S.)
800-637-0029(Canada)
408-562-3910(International)
page194

MacAPPCprovidesacompleteimplementationofIBM'sSystemsNetworkArchitecture(SNA)Logical Unit 6.2 peer-to-peer protocol. It is a modular extension of Macintosh system software, ensuring its availability on all members of the Macintosh computer family, as well as its compatibility with other networks (such as AppleTalk) and software that may already be installed. MacAPPC makes it possible to develop commercial applications that provide access to other Macintosh computer and non-Macintosh computer environments using the services of LU6.2 protocols.
PartNo.:M0698/AMacAPPC;Price:ContactSupplier
PartNo.:M0701/AMacAPPCDocumentationKit;Price:ContactSupplier
PartNo.:M0218LL/BMacAPPCEvaluationKit;Price:ContactSupplier

MacBinarytoMac

Peek[65]
P.O.Box586
Pacifica,CA94044
415-359-5708
page 103

MacBinarytoMac is an Apple File Exchange translator document that converts Macintosh files into MacBinary format, the telecommunications industry standard for transferring Macintosh files via modem. The resulting files can be written to Macintosh, ProDOS, or MS-DOS disks.
PartNo.:N/A;Price:\$10

MacBLAST

Communications Research Group (CRG)
5615 Corporate Blvd.
Baton Rouge, LA 70808
800-242-5278
pages 24, 66, 83, 84, 101, 126, 162, 180, 204, 208, 214, 220

MacBLAST provides high-speed asynchronous file transfer for error-free communications between Macintosh computers, PCs, UNIX/XENIX, VAX, and other minis and mainframes, and converts the text file formats between systems. MacBLAST consists of a Macintosh computer-based module and a host-based module for the following environments: UNIX/XENIX, MS-DOS, Unisys, Data General, VAX, Hewlett-Packard, IBM mainframe, NCR Tower, Tandem, Wang, and Prime.
MacBLAST, PartNo.:N/A;Price:\$195
Host modules, PartNo.:N/A;Price:\$250 to \$9995

MacChuckv1.5

Vano Associates
P.O.Box 12730
New Brighton, MN 55112
612-788-9547
page 103

MacChuck controls a PC from a Macintosh over AppleTalk or using a direct connect cable. MacChuck allows users to operate MS-DOS programs through a window on a Macintosh. With MacChuck, users can use the Macintosh Clipboard Copy and Paste commands with PC programs. MacChuck also copies text, binary, and MacBinary files between the Macintosh and the PC.
PartNo.:N/A;Price:\$100

MacCon+Token Ring Cards for the Macintosh II Family

Asanté Technologies, Inc.
405 Tasman Dr.
Sunnyvale, CA 94089
800-662-9686
page 184

MacCon+II TR boards are designed to comply with the IEEE 802.5 Token-Passing Protocol Standard as well as built-in support of AppleShare, NetWare, 3+Mac, and 3270 emulation software. Optional Link Level Control (LLC) support provides compatibility with IBM's APPC, and MAP/TOPOSI protocols.
PartNo.:N/A;Price:\$745 to \$845

MacDFTv1.1

Apple Computer
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 174

MacDFT v1.1 is a full-function 3270 terminal-emulation program that enables any Macintosh II family computer to communicate with IBM mainframes. It can display up to five separate 3270 sessions simultaneously. It also supports file transfer based on IBM's IND\$FILE. Copy and paste functions between the Macintosh and mainframe applications are supported. MacDFT can be used with either the Apple Coax/Twinax or TokenTalk NB Cards.
PartNo.:M0695;Price:\$245

Macintosh Communications Toolbox

APDA (Apple Programmers & Developers Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 31

The Macintosh Communications Toolbox is system software that provides Apple Macintosh applications with standard access to communications services, including data connection, terminal emulation, and file transfer protocols. The Macintosh Communications Toolbox is designed to support multi-vendor connectivity for Macintosh computers in environments such as Digital, IBM, OSI, TCP/IP, and the AppleTalk network system. Users can install the Macintosh Communications Toolbox using the Installer and Communications Toolbox installation script. Tools can be added or removed by dragging them in or out of the Communications Folder.
PartNo.:M0232LL/B Macintosh Communications Toolbox
PartNo.:M0379LL/A Basic Connectivity Set
PartNo.:M0380LL/A Source Code Examples
Price: Contact Supplier

Macintosh-to-VAX Integration Toolkit

Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 120

The Macintosh-to-VAX Integration Toolkit is a set of software components, APIs, and documentation made available to developers interested in building distributed applications between the Macintosh and the VAX. This package includes AppleTalk for VMS, an AppleTalk-to-DECnet transport gateway, a VAX-based configuration utility, as well as ADSP and Gateway access connection tools for the Macintosh Communications Toolbox.
Part No.: N/A; Price: Contact Supplier

MacInUse v3.0

Softview, Inc.
1721 Pacific Ave., Suite 100,
Oxnard, CA 93033
805-385-5000
Page 23

MacInUse v3.0 tracks system usage. The program records application name, date, start time, and duration into a file. The commenting feature allows designation of business vs. personal usage. MacInUse creates records needed for client billing. Compatible with AppleShare and other networking products.
Part No.: N/A; Price: \$99

MacIRMA API

DCA
1000 Alderman Dr.
Alpharetta, GA 30201
404-442-4000
page 194

MacIRMA API is a Macintosh-based programming tool used to develop custom applications in C or HyperTalk that use DCA MacIRMA products to communicate with an IBM mainframe. Routine operator functions, such as log-on procedures and file transfer, as well as complicated data transfer operations, can be automated.
Part No.: N/A; Price: \$195 to \$6495

MacIRMA

DCA
1000 Alderman Dr.
Alpharetta, GA 30201
404-442-4000
page 177

MacIRMA coax adapters for Macintosh SE, SE/30 and NuBus models with MacIRMA Entry Emulator (EE) software let the Macintosh function as an IBM 3278/3279 terminal, communicating with an IBM mainframe computer. MacIRMA EE supports file transfer, copy and paste, color customization, QuickPad, light pen, and all 3270 terminal functions.
Part No.: N/A; Price: Contact Supplier

MacIRMA Graphics

DCA
1000 Alderman Dr.
Alpharetta, GA 30201
404-442-4000
page 177

MacIRMA Graphics works with MacIRMA hardware to make the Macintosh a high-resolution, mainframe APA graphics workstation. MacIRMA Graphics allows users to display, manipulate, and print graphics generated by GDDM programs, such as SAS/GRAPH, TELLAGRAF, and IBM Interactive Chart Utility. Graphics can be saved in both PICT and PIF formats.
Part No.: N/A; Price: Contact Supplier

MacIRMA LAN Servers SDLC Gateway and 802.2 Gateway

DCA
1000 Alderman Dr.
Alpharetta, GA 30201
404-442-4000
page 189

With the MacIRMA LAN SDLC and 802.2 Gateway Servers, Macintosh computers connected to an AppleTalk LAN can access an IBM SNA host. The gateway software and hardware run on a PC and provide up to 128 host sessions to the LocalTalk, EtherTalk, or TokenTalk LAN. MacIRMA WorkStation software allows each Macintosh client to access up to five sessions.
Part No.: N/A; Price: Contact Supplier

MacIRMA Workstation

DCA
1000 Alderman Drive
Alpharetta, GA 30201
404-442-4000
page 178

MacIRMA WorkStation (WS) is software that allows the Macintosh to function as a multiple-session Distributed Function Terminal (DFT) device in a 3270 SNA network either via coax or as an AppleTalk (MacIRMA LAN) client. It supports five host sessions, including 3287 printer emulation, and file transfer in TSO, CMS, and CICS environments.
Part No.: N/A; Price: Contact Supplier

- MAcKNOWLEDGE** MacKNOWLEDGE is an icon-based communications software program for the Macintosh. It includes scripts for most major on-line services which are activated to log on automatically with the click of an icon.
Prometheus Products
7225 SW Bonita Rd.
Tigard, OR 97223
800-477-3473
page 82
PartNo.: SFT-17; Price: \$199
- MacLinkPlus/PCv4.5** MacLinkPlus/PC is a kit for transferring and translating documents between a Macintosh computer and an IBM PC, compatible, or laptop. It has a library of over 150 translators for word processors, spreadsheets, databases, and graphics. The product comes with software for both machines, allowing the user to transfer and translate files from one computer to the other.
DataViz, Inc.
35 Corporate Dr.
Trumbull, CT 06611
203-268-0030
page 102
PartNo.: N/A; Price: \$199
- MacLinkPlus/Translators** MacLinkPlus/Translators is a set of over 150 translators for most word processing, spreadsheet, database, and graphic formats. The conversion process resides on the Macintosh computer and is used to translate files between PC and Macintosh formats. Translated files retain their original formatting.
DataViz, Inc.
35 Corporate Dr.
Trumbull, CT 06611
203-268-0030
page 103
PartNo.: N/A; Price: \$169
- MacLinkPlus/VS for Wang Hosts** The DataViz MacLinkPlus/Wang VS software provides a bridge between Wang word-processing and Macintosh applications with two-way file transfer and document translation. Macintosh documents can be converted to standard Wang word-processing documents and stored on the Wang VS in a one-step process. A version of MacLinkPlus/Wang VS is available for Macintosh connectivity via the Wang VS, TC, TCP, or MLTC ports.
DataViz, Inc.
35 Corporate Dr.
Trumbull, CT 06611
203-268-0030
page 207
PartNo.: N/A; Price: \$395 to 895
- MacLinkPlus/Wang VS** The DataViz MacLinkPlus/Wang VS terminal-emulation feature enables Macintosh users to emulate a Wang workstation. It uses on-screen buttons and pull-down menus, mouse control of the Wang screen, and Clipboard copy and paste.
DataViz, Inc.
35 Corporate Dr.
Trumbull, CT 06611
203-268-0030
page 207
PartNo.: N/A; Price: \$125 to \$395
- MacLinkPlus/Wang OIS** MacLinkPlus/Wang OIS is a package for transferring and translating word processing documents between a Macintosh personal computer and a Wang OIS. The included library of file translators allows conversion in either direction between Wang OIS word processing documents and MacWrite II, Microsoft Word, Microsoft Works WP, and WordPerfect applications. Users can connect the Macintosh to the Wang or TC workstation.
DataViz, Inc.
35 Corporate Dr.
Trumbull, CT 06611
203-268-0030
page 207
PartNo.: N/A; Price: \$495
- MacMainFrame Coax Gateway v3.2** MacMainFrame Coax Gateway is a hardware and software product that provides access to up to five IBM host sessions for any client Macintosh users connected to a Macintosh server via AppleTalk. The MacMainFrame Coax Gateway card can be co-resident on an AppleShare server and is available for the Macintosh SE, SE/30, and II families.
Avatar Technologies, Inc.
65 South St.
Hopkinton, MA 01748
508-435-3000
page 176
PartNo.: N/A; Price: \$2495

MacMainFrameCoaxWorkStation

Avatar Technologies, Inc.
65 South St.
Hopkinton, MA 01748
508-435-3000
page 176

The MacMainFrameCoaxWorkstation Series combines MacMainFrameInternal cards (for the SE, SE/30, or II) and application software to provide IBM3278/3279 terminal emulation, file transfer capabilities, and 3287 printer emulation for Macintosh computers. Products provide Macintosh connectivity to IBM CICS, TSO, or VM/CMS operating environments; available in CUT or DFT modes. Part No.: N/A; Price: \$995 to \$1295

MacMainFrameDX

Avatar Technologies, Inc.
65 South St.
Hopkinton, MA 01748
508-435-3000
page 175

MacMainFrameDX is an external IBM3270 communications product that provides coax Macintosh-to-mainframe communications capability for all Macintosh computers, including the Macintosh Portable. It provides IBM3278/3279 terminal-emulation and file transfer capabilities. Part No.: 89-2530-501; Price: \$1195

MacMainFrameGraphicsv3.2

Avatar Technologies, Inc.
65 South St.
Hopkinton, MA 01748
508-435-3000
page 175

MacMainFrameGraphics is a software application that allows Macintosh users to access and manipulate host graphics locally on their Macintosh. Using the All Points Addressable (APA) graphics method, Macintosh users can access, transfer, and manipulate PICT, MacDraw, MacPaint, PIF, and GDF files from and between host applications. Part No.: 89-2570-501; Price: \$195

MacMainFrameSDLCGatewayv3.3

Avatar Technologies
65 South St.
Hopkinton, MA 01748
508-435-3000
page 188

MacMainFrameSDLCGateway allows Macintosh users in an AppleTalk environment (LocalTalk, TokenTalk or EtherTalk) to run host applications on a local or remote IBM host without the need for an IBM controller. Using Synchronous Data Link Control (SDLC) communications, MacMainFrameSDLC provides up to 8 simultaneous IBM3270 sessions per user and up to 64 sessions per server. Part No.: For II family, 8 sessions, 89-3208-000; 32 sessions, 89-3232-000; 64 sessions, 89-3264-000 Part No.: For SE/30, 8 sessions, 89-3308-000; 32 sessions, 89-3332-000; 64 sessions, 89-3364-000 Part No.: For SE, 8 sessions, 89-3408-000 Price: 8 host sessions, \$2495; 32 sessions, \$4495; 64 sessions, \$6495

MacMainFrameSDLCWorkstationv3.3

Avatar Technologies
65 South St.
Hopkinton, MA 01748
508-435-3000
page 187

MacMainFrameSDLCWorkstation combines hardware and software to allow a Macintosh user to directly access and manipulate IBM host information over a Synchronous Data Link Control (SDLC) connection. It provides an individual Macintosh user with access to up to eight simultaneous host 3278/3279 terminal, 3179G graphics, and 3287 printer sessions from remote locations. Part No.: For II family, 89-3201-000 Part No.: For SE/30, 89-3301-000 Part No.: For SE, 89-3401-000 Price: \$1295

MacMainFrameTokenRingGatewayv3.3

Avatar Technologies, Inc.
65 South St.
Hopkinton, MA 01748
508-435-3000
page 185

MacMainFrameTokenRingGateway allows Macintosh users in an AppleTalk environment (LocalTalk, TokenTalk, EtherTalk) to run host applications from an IBM host that is resident on a token ring network. It combines hardware and software to provide IBM3278/3279 terminal-emulation and file transfer capabilities and the ability to access up to 8 host sessions per user and up to 64 per server. Part No.: For II family, 8 sessions, 89-2808-000; 32 sessions, 89-2832-000; 64 sessions, 89-2864-000 Part No.: For SE/30, 8 sessions, 89-3008-000; 32 sessions, 89-3032-000; 64 sessions, 89-3064-000 Part No.: For SE, 8 sessions, 89-2908-000 Price: 8 host sessions, \$2495; 32 sessions, \$4495; 64 sessions, \$6495

- MacMainFrameTokenRing Workstation v3.3**
Avatar Technologies, Inc.
65 South St.
Hopkinton, MA 01748
508-435-3000
page 185
- MacMainFrameTokenRing Workstation combines hardware and software to provide Macintosh users with access to host information on a token ring network. It provides access to up to 8 simultaneous host sessions and because it is TokenTalk compatible, also provides Macintosh-to-Macintosh and Macintosh-to-PC communication capabilities. It transmits and receives data at 4 Mbps.
Part No.: For II family, 89-2801-000
Part No.: For SE/30, 89-3001-000
Part No.: For SE, 89-2901-000
Price: \$1295
- MACMENLO**
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
page 202
- MACMENLO is a terminal emulation program that lets Macintosh users access any Tandem application. It supports Tandem 6510 and 653X terminal emulation in both conversational and block (page) modes, providing access to block-mode applications, including TEdit, Pathway, FOUNDATION, and the VS-Editor.
Part No.: N/A; Price: \$395
- MacNIX 3.1 Serial**
Unipress, Inc.
2025 Lincoln Hwy.
Edison, NJ 08817
201-985-8000
page 158
- MacNIX is a distributed software allowing Macintosh users access to the host UNIX facilities via the Macintosh user interface. UNIX files are displayed as Macintosh computer-like icons and are given a specific set of operations. Operations can be called by selecting menu options with the mouse. MacNIX is a distributed software based on a Client/Server architecture. Connections can be made either via serial lines or via Ethernet network using TCP/IP protocols.
Part No.: N/A; Price: \$800 to 9800
- MacNOW**
Telos Advanced Systems
1315 Directors Row
Fort Wayne, IN 46808
219-484-0348
page 137
- MacNOW from Telos Advanced Systems provides a Macintosh interface to Digital's ALL-IN-1 office automation software. MacNOW supports electronic mail, file management, file transfer, terminal emulation, and other features of ALL-IN-1 in a Macintosh environment—complete with pull-down menus, dialog boxes, and the mouse to select, drag, and click.
Part No.: MacNow/VAX license; Price: \$3000
Part No.: MacNow/Macintosh; Price: \$200
- MacPROFF v1.2**
Mariette Systems International
29 El Cerrito Ave.
San Mateo, CA 94402
415-344-1519
page 190
- MacPROFF is a HyperCard based front-end for the IBM PROFS electronic mail system. It uses High Level Language Application Program Interface (HLLAPI) technology capable of displaying IBM mainframe computer screens (like PROFS screens) in HyperCard.
Part No.: 90-0000-003; Price: Contact Supplier
- MacRAF**
Datability Software Systems Inc.
322 Eighth Ave., 11th floor
New York, NY 10001
800-DIALDSS
page 125
- MacRAF provides users with high speed remote file and print service between a Macintosh and a VAX host computer on the Ethernet network. The software includes VT100 and VT200 terminal emulation and supports up to 10 simultaneous terminal sessions.
Part No.: N/A; Price: \$495 for Macintosh Software
Part No.: N/A; Price: \$295 for VAX/VMS Software
- MacRingNB**
h-Three Systems
P.O. Box 12557
Research Triangle Park, NC 27709
800-MAC-RING
page 184
- MacRingNB is an expansion card that connects a Macintosh II series computer to a token ring Network and provides complete AppleTalk compatibility and IBM connectivity. MacRingNB users can interconnect Macintosh computers and IBM-compatible PCs on token ring Networks, and use third-party Macintosh software to connect to IBM mainframes and midrange systems.
Part No.: 00051101; Price: \$895

- MacRingSE, SE/30** MacRingSE and MacRingSE/30 are expansion cards that connect Macintosh SE and SE/30 computers to token ring networks and provide AppleTalk compatibility and IBM connectivity. MacRingSE and SE/30 users can interconnect Macintosh computers and IBM-compatible PCs on token ring networks, and use third-party Macintosh software to connect to IBM mainframes and midrange systems.
h-Threesystems
P.O.Box 12557
Research Triangle Park, NC 27709
800-MAC-RING
page 184
Part No.: N/A; Price: \$795 for Macintosh SE
Part No.: N/A; Price: \$895 for Macintosh SE/30
- MACROL, Inc.** Product: RP244PC Utility
496 Coelho St., Milpitas, CA 95035, 408-945-0346
- MacSoft** Products: VSterm, VsComm
2920 F St., Bakersfield, CA 93301, 312-443-1222
- MacTCP** The MacTCP application provides a standard platform for developing applications and services using C and Assembly language interfaces over TCP/IP protocols. Licensed to third-party developers, MacTCP includes TCP, UDP, and IP protocols and conforms to Internet RFCs and MIL-STDs, ensuring interoperability with systems on the TCP/IP Internet. MacTCP runs over both Ethernet and LocalTalk cables systems.
APDA (Apple Programmers & Developers Association)
Apple Computer, Inc.
20525 Mariani Ave., MS33G
Cupertino, CA 95014
800-282-2732 (U.S.)
800-637-0029 (Canada)
408-562-3910 (International)
page 156
Part No.: M0230LL/A; Price: \$100, single user license; site and commercial license also available.
Part No.: M0216LL/A, Documentation Kit; Price: \$60
- MacTerminal v3.0** MacTerminal v3.0 is a terminal emulation and communications application that enables Macintosh users to communicate with many host computers such as VMS and UNIX systems. With MacTerminal, users can also access electronic bulletin boards and on-line databases such as CompuServe, DIALOG, and Dow Jones News/Retrieval. MacTerminal supports the Macintosh Communications ToolBox.
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 128
Part No. M0521/C; Price: \$125
- MacToken** MacToken allows users to identify all devices connected to a token ring network and also to capture link-layer data passing along the network. MacToken allows users to set up, maintain, and troubleshoot token ring networks.
EDI Communications Corp.
20440 Town Center LN., #4E
Cupertino, CA 95014
408-996-1343
page 186
Part No.: LEV011048; Price: \$1500
- MacToPic** MacToPic emulates Adds Viewpoint, DEC VT101 and McDonnell Douglas Prism terminals and transfers data from Pick hosts to the Macintosh computer. Data transferred from the Pick host can be used in all Macintosh spreadsheets, databases, word processors and page layout programs. Macintosh text files can be transferred to the Pick Host.
Camation Software
P.O. Box 608
Camation, WA 98014
206-333-4288
page 213
Part No.: 101; Price: \$195 per program or \$2000 site license

MacWorkStation v3.1
 APDA (Apple Programmers & Developers Association)
 Apple Computer, Inc.
 20525 Mariani Ave., MS33G
 Cupertino, CA 95014
 800-282-2732 (U.S.)
 800-637-0029 (Canada)
 408-562-3910 (International)
page 32

MacWorkStation is a high-level programming tool for Macintosh computers which provides the standard Macintosh user interface, printing, and filing services to client applications running on a remote computer, such as Digital VAX or IBM 370s, or on the same computer as MacWorkStation. The client applications can be written in any language, on any host or personal computer connected over a wide variety of network and communication protocols.
 Part No.: M0684; Price: \$100, single user license; site & commercial license also available.
 Part No.: M7059/A, MacWorkStation v3.1 documentation kit; Price: \$65
 Part No.: M0124LL/A, MacWorkStation Dialog Builder v1.0B1; Price: \$25
 Part No.: M0123LL/A, MacWorkStation Event Handler v1.0B1; Price: \$25

MacX
 Apple Computer, Inc.
 20525 Mariani Ave.
 Cupertino, CA 95014
 408-996-1010
page 160

MacX is an X Window system display server that implements X Windows, a network-based, industry-standard windowing and graphics environment. MacX supports multiple networking protocols, including AppleTalk, TCP/IP, and DECnet, using the Macintosh Communications Toolbox. MacX supports monochrome and color applications, allows for cut and paste between Macintosh applications and X applications. MacX has been optimized for DEC windows support.
 Part No.: N/A; Price: \$299

MacX25
 APDA (Apple Programmers & Developers Association)
 Apple Computer, Inc.
 20525 Mariani Ave., MS33G
 Cupertino, CA 95014
 800-282-2732 (U.S.)
 800-637-0029 (Canada)
 408-562-3910 (International)
page 84

This is a collection of software routines that offer a high-level program interface that links Macintosh computers to packet-switched data networks. No detailed knowledge of AppleTalk and AppleTalk Data Stream Protocol (ADSP) is required to use the library. Some of the routines included are a packet-level interface using control blocks that provide maximum control, and a higher-level logical packet interface to create translated and formatted X.25 packets.
 Part No.: B0314LL/A, MacX25 Developer's Kit; Price: \$2324
 Part No.: M0711, MacX25 Server Software Kit; Price: \$800
 Part No.: B0315LL/A, MacX25 Server Software Kit w/serial NB card; Price: \$2124

Magic Software, Inc.
 Product: Backmatic v1.1.
 2206 Franklin St., Bellevue, NE 68005, 402-291-0670

Mail*Link SMTP
 StarNine Technologies, Inc.
 2126 Sixth St.
 Berkeley, CA 94710
 415-548-0391
page 161

Mail*Link SMTP is an E-mail gateway between Macintosh mail systems and UNIX mail. Mail*Link provides peer-to-peer mail delivery between Macintosh mail (QuickMail, Microsoft Mail, and TOPS InBox Plus) products and Apple's A/UX and other systems that support Simple Mail Transfer Protocol (SMTP). Mail*Link runs on a Macintosh using MacTCP for TCP/IP support, allowing mail to be transferred over both Ethernet and LocalTalk.
 Part No.: N/A; Price: \$249

MailMate
 Alisa Systems Inc.
 221 East Walnut St., Suite 175
 Pasadena, CA 91101
 818-792-9474
page 137

The MailMate family of products provide gateways to DECnet mail users for existing Macintosh computer-based electronic mail packages. MailMate gateways are available for CE Software's QuickMail and Microsoft Corp.'s Microsoft Mail v2.0. The MailMate gateways provide two-way exchange of text messages with Digital Equipment Corporation's DECnet mail (also known as VMSmail).
 Part No.: N/A; Price: \$950 to \$9450

Makeasy2.1 Makeasy is a distributed software allowing Macintosh users access to the host VMS facilities via the Macintosh user interface. VMS files are displayed as Macintosh computer-like icons and are given a specific set of operations. Operations can be called by selecting menu options with the mouse.
Unipress, Inc. Makeasy is a distributed software based on a client/server architecture. Connections can be made either via serial lines or via Ethernet network using AppleTalk or DECnet protocols.
2025 Lincoln Hwy. PartNo.: N/A; Price: \$3000 to \$9800
Edison, NJ 08817
201-985-8000
page 127

Mariette Systems International Product: MacPROFF
29 El Cerrito Ave., San Mateo, CA 94402, 415-344-1519

Masquerade3270 Masquerade3270 is a software product that enables users to create IBM host front-ends without modifying the mainframe application and without programming on the Macintosh. Masquerade3270 enables a user to create a custom Macintosh application that acts as an intelligent layer between a 3270 mainframe application and its end users.
Connectivité Corp. PartNo.: N/A; Price: \$200 to \$1200
101 Executive Blvd.
Elmsford, NY 10523
914-592-2853
page 193

MAX Menlo Business Systems' MAX is a Tandem-based program that facilitates error-free file transfer between Tandem Computer mainframes and Macintosh computers. Most users can transfer files using Macintosh point-and-click file selection and predefined command macros stored in a Tandem database.
Menlo Business Systems, Inc. PartNo.: N/A; Price: \$3500
201 Main St.
Los Altos, CA 94022
415-948-7920
page 203

MaxNotes MaxNotes provides a Macintosh-based interface to Digital Equipment Corporation's VAXNotes electronic conferencing system. It uses Alisa's Macintosh DECnet package or a special AppleTalk for VMS package to connect to remote VAXNotes conferencing servers. DECnet access may be via Ethernet, LocalTalk (and the Shiva FastPath), or asynchronous (DDCMP) connection.
Alisa Systems Inc. PartNo.: N/A; Price: \$295
221 East Walnut St., Suite 175
Pasadena, CA 91101
818-792-9474
page 138

MaxWay500 Family MaxWay500 is based on the 10MIPSSPARCCPU and utilizes the VME expansion bus. MaxWay500 concurrently supports four LocalTalk and two high-speed LANs (any combination of Ethernet/IEEE 802.3 and token ring); used as multi-LAN AppleTalk Router. MaxWay500E supports Ethernet and LocalTalk routing among four LocalTalk LANs and expands to include another Ethernet or token ring LAN. MaxWay500TR supports token ring connectivity/routing among four LocalTalk and Token Ring (IEEE 802.5) LANs.
Tri-Data Systems, Inc. PartNo.: N/A; Price: \$7495
3270 Scott Blvd.
Santa Clara, CA 95054
408-727-3270
page 15

Menlo Business Systems, Inc. Products: FOUNDATION Vista, FOUNDATION Graphics, FOUNDATION CBT, MACMenlo, MENLOCOM, MAX, SpoolAT, Current Loop Converter, FOUNDATION Vista Translator
201 Main St., Los Altos, CA 94022, 415-948-7920

MENLOCOM MENLOCOM applies the Macintosh interface to standard Tandem database information. As a result, data can be viewed in user-defined formats on the Macintosh screen. In addition, MENLOCOM allows integration of data from Tandem and Macintosh databases.
Menlo Business Systems, Inc. PartNo.: N/A; Price: Contact Supplier
201 Main St.
Los Altos, CA 94022
415-948-7920
page 203

- Meridian Data Services Digital Line Cards**
Northern Telecom
2100 Lakeside Blvd.
Richardson, TX 75080
214-437-8000
page 60
- The Meridian 1/SL-100 Async Interface Line Card and Data Line card enables Digital's computers to be directly linked to the Meridian 1 (SL-1 and SL-100 series systems).
Part No.: N/A; Price: \$350 per port
- Meridian LANSTAR Local Area Network for AppleTalk**
Northern Telecom
2305 Mission College Blvd.
Santa Clara, CA 95054
408-988-5550
page 61
- LANSTAR AppleTalk is a network topology and transport system compatible with all the leading operating system standards. Different interface cards are available for a wide range of servers or desktop computers, including IBM PCs, PC/ATs and compatibles, PS/2 computers, and Macintosh computers. LANSTAR AppleTalk implements AppleTalk protocols on Northern Telecom's twisted-pair establishment-widen network.
Part No.: N/A; Price: Contact Supplier
- Meridian SL-1 Data Services**
Northern Telecom
2305 Mission College Blvd.
Santa Clara, CA 95054
408-988-5550
page 66
- The Meridian 1 provides a way for an organization to transfer information from the MS-DOS environment to the Macintosh, at distances of up to 8000 feet. A connect file for MacLinkPlus that enables the user to transfer and convert files between personal computers attached to the Meridian SL-1 is available from Data Viz. An IBM PC or compatible can be connected to the Meridian SL-1 by using a Personal Computer Interface Card.
Part No.: N/A; Price: \$580
- Meridian SL-1 Support for the Apple LaserWriter Printer**
Northern Telecom
2305 Mission College Blvd.
Santa Clara, CA 95054
408-988-5550
page 61
- The Apple LaserWriter printer is connected asynchronously to the Meridian SL-1 through a wall jack by using a DB9-to-RJ11 cable to a port on a QPC430 line card. The Macintosh computer that prints to this LaserWriter printer can be located anywhere there is a Meridian SL-1, where Meridian SL-1s are interconnected via Northern Telecom's ESN.
Part No.: N/A; Price: \$301 to \$380
- Meridian SL-100**
Northern Telecom
2100 Lakeside Blvd.
Richardson, TX 75080
214-437-8000
page 61
- The Meridian SL-100 provides a way for an organization to transfer information from the MS-Dos environment to the Macintosh, at distances of up to 36,000 feet. An IBM PC or compatible can be connected to the Meridian SL-100 by using a Personal Computer Interface card, Meridian Asynchronous Data Option, or Data Unit.
Part No.: N/A; Price: \$550
- Meridian TeleCenter**
Northern Telecom
2305 Mission College Blvd.
Santa Clara, CA 95054
408-988-5550
page 60
- Meridian TeleCenter adds the telephone to the Macintosh desktop metaphor. It gives users on-line telephone directory dialing, multiple telephone directories, automatic phone call access, incoming call notification, Meridian Mail voice messaging systems screen menus, and network features such as Called/Calling Party Name Identification.
Part No.: N/A; Price: \$200
- Messenger Software, Inc.**
Product: xFer 1.1
180 W. Streetsboro Rd., Unit #5, Suite #302, Hudson, OH 44236

MicroPhonellv3.0

Software Ventures
2907 Claremont Ave.
Berkeley, CA 94705
415-644-3232
page 81

A general purpose telecommunications program for both novice and expert users. Its Pascal-like scripting language can be extended through standard XCMDs and XFCNs. The program supports many terminal emulations and a wide range of file transfer protocols, including ZMODEM.
Part No.: N/A; Price: \$295

Microsoft Corporation

Product: Microsoft Mail 2.0
Box 97017, Redmond, WA 98073-9717

Microsoft Mail 2.0

Microsoft Corporation
P.O. Box 97017
Redmond, WA 98073-9717
page 25

Microsoft Mail 2.0 is an electronic mail system. Notes, files, graphics, and voice messages can be sent and received. Mail gateways and applications allow connectivity with other E-mail systems and customization of the user's system. Mail is also integrated with Microsoft Excel and Word.
Part No.: N/A; Price: \$395

Mitem Corporation

Product: Mitem View
2105 Hamilton Ave., San Jose, CA 95125, 408-559-8801

Mitem View

Mitem Corporation
2105 Hamilton Ave., Suite 190
San Jose, CA 95125
408-559-8801
page 33

Mitem View allows users to create graphic user interfaces to mainframe applications by combining HyperCard/HyperTalk with pattern-recognition. Mitem View supports TTY, VT52, VT100, 3270, 6530 terminal emulation, and async, SNA communications protocol.
Part No.: MV-K-DEV; Price: \$995

Mt. Xinu, Inc.

Products: K-Share, K-Spool, K-Talk, XINET
2560 Ninth St., #312, Berkeley, CA 94710, 415-644-0146

MultiGate

Webster Computer Corp.
2109 O'Toole Ave., Suite J
San Jose, CA 95131-1303
408-954-8054
page 151

MultiGate allows integration of Apple Macintosh and Ethernet networks. MultiGate performs AppleTalk routing on four independent LocalTalk networks while acting as a TCP/IP gateway. Single, large LocalTalk networks can be separated into smaller, compact LocalTalk networks connected by MultiGate to form an internet.
Part No.: N/A; Price: \$4995

MultiGate Access

Network Resources Corp.
2450 Autumnvale Dr.
San Jose, CA 95131
408-263-8100
page 153

MultiGate Access is a collection of software applications that allow users to access host systems using the Macintosh interface, including: MacEdit, which allows users to edit host-based documents; MacFTP, which allows users to transfer files to and from hosts; MacTerm 2000, a VT100 terminal emulator; and LocalTerm, a serial driver replacement. MultiGate Access must be used in conjunction with either MultiGate Mac or IPGate/MultiGate 2000.
Part No.: N/A; Price: \$80

MultiGate Mac

Network Resources Corp.
2450 Autumnvale Dr.
San Jose, CA 95131
408-263-8100
page 153

MultiGate Mac routes between as many as six networks. AppleTalk, AppleTalk to TCP/IP (KIP and CAP-style encapsulation), full TCP/IP to TCP/IP and MSP to TCP routing and gateway functions are handled by MultiGate Mac. MultiGate Mac adheres to TCP/IP "Interior Gateway" specifications RFC-950 and proxy-ARP. Features include a powerful network management interface, security controls and SNMP support.
Part No.: N/A; Price: \$795

- MultiGate Manager** MultiGate Manager is a centralized network management package which uses standard network management protocols and the Oracle database to manage AppleTalk networks. Features include the ability to make router changes at specified times, statistical analysis of performance, failure diagnosis, report generation, backbone tuning, zone naming, network numbering and router naming.
Network Resources Corp.
2450 Autumnvale Dr.
San Jose, CA 95131
408-263-8100
page 154 Part No.: N/A Price: \$795
- MultiUser Helix** MultiUser Helix is the database server for Double Helix applications. Built-in referential integrity provides immediate on-screen information and updating across the network, multi-threaded searching, personalized menus and password protection, and data logging for data security. MultiUser Helix does not require any special file serving hardware or software.
Odesta Corp.
4084 Commercial Ave.
Northbrook, IL 60062
800-323-5423
page 133 Part No.: N/A Price: \$495, additional nodes \$150 each
- NATURALARCHITECT Workstation** NATURALARCHITECT Workstation is a Computer Aided Software Engineering (CASE) facility that provides analysis and design support for the development of business applications systems. NATURALARCHITECT Workstation provides graphics editors for entity-relationship, data flow, and program structure diagrams to support requirements analysis.
Software AG
11190 Sunrise Valley Dr.
Reston, VA 22091
703-860-5050
page 34 Part No.: N/A Price: \$2000 to \$8000
- NATURALCONNECTION** NATURALCONNECTION for the Macintosh enables users to interact with the IBM Mainframe and DEC/VAX NATURAL environment from Macintosh workstations. NATURALCONNECTION provides host terminal emulation, and transfer of data between host-based application written in NATURAL and the Macintosh workstation. Both directions of data transfer are supported. Automation of repetitive tasks, such as host access, is allowed.
Software AG
11190 Sunrise Valley Dr.
Reston, VA 22091
703-860-5050
page 34 Part No.: N/A Price: \$300
- Neon Software** Product: NetMinder Ethernet
1009 Oak Hill Rd., Suite 203, Lafayette, CA 94549, 415-283-9771
- NetAccess** Using a Solana communications server, Macintosh users can select, and work as a part of, a remote AppleTalk network. Transparent to the user, this connection is made through the Meridian SL-1 or Meridian SL-100 at speeds of up to 64 Kbps, and at distances of up to 8000 feet (Meridian SL-1) or up to 36,000 feet (Meridian SL-100). When the link is made, the remote Macintosh has all the rights of a local one—access to LaserWriter printers, file servers, and electronic mail.
Solana Electronics
4907 Morena Blvd., Suite 1404
San Diego, CA 92117
619-490-5050
page 65 Part No.: N/A Price: \$937
- NetAccess** NetAccess connects any IBM System/36, System/38 or AS/400 to any Macintosh on an AppleTalk network. NetAccess is an expansion card (Macintosh SE, SE/30, and II) and server software that runs in the background on any Macintosh to distribute IBM midrange connectivity across the AppleTalk network to all other Macintosh computers on the network.
Andrew KMM Systems
6034 West Courtyard Dr.,
Austin, TX 78730, 512-338-3000
page 181 Part No.: N/A Price: \$3995
- NetBridge** NetBridge is a local AppleTalk router. It can either extend a network beyond its normal wiring and node limits, or connect two local, separate networks into one internetwork.
Shiva Corporation
155 Second St.
Cambridge, MA 02141
617-864-8500
page 16 Part No.: N/A Price: \$499

NetMap

AESP
1810 N.E. 144th St.
N. Miami, FL 33181
800-446-2377
page 23

NetMap is a desk accessory that lets users trace the activity of every AppleTalk device on the network. Remote capability allows users to maintain local network as well as any network that connects to the user's network through a series of AppleTalk bridges.
Part No.: N/A; Price: \$90

NetMinder Ethernet

Neon Software
1009 Oak Hill Rd., Suite 203
Lafayette, CA 94549
415-283-9771
page 83

NetMinder Ethernet is a software product that allows the user to capture, examine and analyze all types of Ethernet network data. The user captures all Ethernet data or filter data using dialog-based protocol configuration templates. Captured data is examined decoded by protocol. Analysis features include bandwidth, by protocol, and node.

Part No.: NME1; Price: \$495

NetModem v32

Shiva Corporation
155 Second St.
Cambridge, MA 02141
617-864-8500
page 20

NetModem v32 is a 9600 bps, v32-compatible modem that is shared over an AppleTalk network. NetModem v32 provides dial-in network access, which allows a user to access file servers, printers, electronic mail, and other AppleTalk resources from a remote location. Remote network-to-network routing between two networks which have NetModem V.32's is also included.

Part No.: N/A; Price: \$1999

NetModem v2400

Shiva Corporation
155 Second St.
Cambridge, MA 02141
617-864-8500
page 19

NetModem v2400 is a 2400 bps modem that is shared over an AppleTalk network. It includes dial-in network access software which lets a user access file servers, printers, electronic mail and other network resources from a remote location.

Part No.: N/A; Price: \$599

NetOne MacUWS

Ungermann-Bass
3900 Freedom Cir.
Santa Clara, CA 95052-8030
408-496-011
page 158

MacUWS provides a Macintosh front-end to host applications, allowing users to turn routine activities into an interactive process with pull-down menus, scroll bars, and selection buttons for point-and-click mouse support. End users can share resources and information through the network with MacUWS. Included is a VT100 terminal emulator that supports up to five Telnet sessions.

Part No.: N/A; Price: Contact Supplier

NetShare 1.0

Distributed Technologies, Inc.
1982358th Place South
Kent, WA 98032
206-395-7800
page 67

NetShare allows a Unisys/Convergent workstation to function as an AFP file server on a Macintosh network. A Macintosh resident mail gateway to the BTOS electronic mail system and translation utilities for word processing and spreadsheet documents are included.

Part No.: AU-001; Price: \$2995, 1 to 8 users; \$1795, 9 to 32-user upgrade

NetSerial X232

Shiva Corporation
155 Second St.
Cambridge, MA 02141
617-864-8500
page 19

NetSerial is a high-speed hardware interface which connects a serial peripheral to an AppleTalk network. NetSerial is compatible with any serial device which can connect directly to a Macintosh, including printers, plotters, and modems.

Part No.: N/A; Price: \$399

- NetStream**
Personal Computer Peripheral Corp.
4170 Eisenhower Blvd., Bldg A-4, Tampa, FL
33634, 813-3092
page 12
- NetStream 2.0 is a network backup software program designed to provide automatic, unattended backups of an entire AppleTalk network, as well as AppleShare servers.
Part No.: N/A; Price: \$89
- NetWare for Macintosh**
Novell, Inc.
1122 East 1700 South
Provo, UT 84606
800-LAN-KIND
page 51
- NetWare's Macintosh support consists of NetWare extensions called Value Added Processes (VAPS) which run on NetWare file servers or bridges. Features include multitasking; performance-optimized disk seeking, and disk caching; file and printer sharing between Macintosh, MS-DOS and OS/2 workstations; transaction tracking; disk write verification; uninterruptible power source monitoring; support for LocalTalk, Ethernet, and ARCNET cabling media.
Part No.: 883-000585-001; Price: \$200
- Netway 1000**
Tri-Data Systems, Inc.
3270 Scott Blvd.
Santa Clara, CA 95054
408-727-3270
page 188
- The Netway 1000 AE Communication Server allows Macintosh users on an AppleTalk network to access an IBM host computer. By emulating an IBM 3274 controller, this hardware and software system establishes a link between Macintosh computers and an IBM hosts system, allowing the Macintosh computers to operate as 3278-2, 3, 4 and 5 terminals and communicate with the host system.
Part No.: 1000AE; Price: \$3995 retail
- Netwise, Inc.**
Product: Netwise RPC TOOL
2477 55th St., Boulder, CO 80301, 303-442-8280
- Netwise RPC TOOL**
Netwise, Inc.
2477 55th St.
Boulder, CO 80301
303-442-8280
page 35
- Based on Remote Procedure Call (RPC) technology, the Netwise RPC TOOL enables C programmers to write applications across multivendor networks. The tool generates network communications source code to support distributed processing between all components of a network, regardless of underlying operating systems and hardware.
Part No.: N/A; Price: Contact Supplier
- Network Administrator's Utility**
Farallon Computing
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 23
- The Network Administrator's Utility contains tools to implement a network support program. It supports a multi-vendor AppleTalk network, including Macintosh, MS-DOS and PS/2 and DEC VAX computers.
Part No.: M0697; Price: \$129
- Network Manager's Pack**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 23
- The PhoneNET Manager's Pack is a software toolkit for monitoring, managing, and documenting an AppleTalk network. It includes a one-year subscription to Farallon's line of network management software: Traffic Watch II, NetAtlas, NetStats, CheckNET, and StarCommand 2.0. Also included are two copies of Timbuktu software.
Part No.: NIM200; Price: \$995
- Network Resources Corp.**
Products: MultiGate 2000, IPGate, MultiGate Manager, MultiGate Mac, MultiGate Access, Mac2000
2450 Autumnvale Dr., San Jose, CA 95131, 408-263-8100

- Nightshift v3.1** Nightshift is a tape-drive/software solution which facilitates centralized, unattended backup of an entire Macintosh network including servers. Features include a backup log window, timer scheduler, node security, and auto-shutdown. Hardware consists of a TTI 4mm or 8mm helical-scan tape drive providing 1.3 and 2.3 gigabytes of storage respectively.
Transitional Technology, Inc.
5401 E. La Palms Ave.
Anaheim, CA 92807
714-693-1133
page 13
Part No.: 4mm bundle, CTS4M; Price: \$4795
Part No.: 8mm bundle, CTS800M; Price: \$6295
- Nittany Development Group** Product: DBF-Access Tools for HyperCard 1.0
606 No. Armistead St., Alexandria, VA 22312, 703-256-0791
- Nodem LIU** The Nodem LIU provides Macintosh computers direct connection to Ethernet using the SCSI port. It is an Ethernet device that does not require the user to remove the case of the Macintosh. The Nodem is available in four different models to support the different Ethernet cabling schemes.
Adaptec Inc.
691 So. Milpitas Blvd.
Milpitas, CA 95035
408-945-2518
page 68
Part No.: N/A; Price: \$495 to \$595
- Northern Telecom** Products: Meridian SL-1, Meridian SL-100, Meridian LANSTAR Local Area Network for AppleTalk, LANSTAR NetWare for Macintosh, Meridian Data Services Digital Line Cards, Meridian TeleCenter
2305 Mission College Blvd., Santa Clara, CA 95054, 408-988-5550
2100 Lakeside Blvd., Richardson, TX 75080, 214-437-8000
- Novell, Inc.** Products: NetWare for the Macintosh, TCP Port, LanWorkPlace for Macintosh, Etherport SEL, Etherport SE30L
1122 East 1700 South, Provo, UT 84606, 800-LAN-KIND
- NRC Mac2000** NRC Mac2000 is an MCP-based network interface board with 512K of RAM, a microprocessor and operating system for Macintosh II computers. Currently, a Mac2000-equipped Macintosh can communicate with a diverse range of computer systems based on Ethernet, broadband and fiber-optic including Digital VAX and MicroVAX computers, UNIX-based computers and PCs.
Network Resources Corp.
2450 Autumnvale Dr.
San Jose, CA 95131
408-263-8100
page 11
Part No.: N/A; Price: \$995
- NRC MultiGate 2000** The MultiGate 2000 connects LocalTalk/PhoneNET systems and LaserWriter printers with Ethernet, broadband and fiber-optic networks. Fully self-configuring, NV RAM protects configuration parameters during power outages. MultiGate Manager Jr. software is provided. Functionality can be expanded by downloading IP Gate TCP/IP software.
Network Resources Corp.
2450 Autumnvale Dr.
San Jose, CA 95131
408-263-8100
page 16
Part No.: LT2000E for Ethernet, LT2000FO for Fiber Optic; Price: \$2395
Part No.: LT2000 for Broadband versions; Price: \$2795
- Odesta Corp.** Product: Odesta Document Management System, Multiuser Helix, Helix VMX
4084 Commercial Ave., Northbrook, IL 60062, 800-323-5423
- Odesta Document Management Systems** Odesta Document Management Systems (ODMS) is a family of workflow and document-management applications for Macintosh/VAX multi-user networks. ODMS gives a bird's eye view of the status of all work being done on the network. ODMS includes built-in networking software. ODMS is compatible with most VAX-based file servers and can incorporate MS-DOS PC documents using Digital's VMS Services for MS-DOS.
Odesta Corp.
4084 Commercial Ave.
Northbrook, IL 60062
800-323-5423
page 135
Part No.: N/A, Price: from \$20,000

- Omnis5**
Blyth & Associates
1065 East Hillsdale Blvd., Suite 300
Foster City, CA 94404
415-571-0222
page 37
- Omnis5 is a development platform that enables users to create multiuser, multiplatform applications. SQL connectivity to Oracle and other Sequel databases allows Omnis5 to retrieve and enter data on both the VAX and the Mainframe. The graphic user interface supports full color graphics. Omnis HyperCard/SuperCard access allows HyperCard/SuperCard Stacks to read and write to Omnis5 datafiles in both single and multiuser installations.
Part No.: N/A; Price: \$795
- Oracle Corp.**
Product: ORACLE for the Macintosh.
500 Orade Pkwy., Redwood Shores, CA 94065, 800-ORACLE-1
- ORACLE for the Macintosh**
Oracle Corp.
500 Orade Pkwy.
Redwood Shores, CA 94065
800-ORACLE-1
page 36
- ORACLE for the Macintosh is a development tool product which makes possible the creation of Macintosh front-end applications that access Oracle databases on mainframes and minis. With Oracle, data can reside in the local Macintosh database, as well as in remote databases.
Part No.: N/A; Price: \$299 to 999
- Orange Micro, Inc.**
Products: Mac286, ICP, Grappler LX, Mac86
1400 No. Lakeview Ave., Anaheim, CA 92807, 800-223-8029
- OSF/Motif 1.0.3 for A/UX 2.0**
Integrated Computer Solutions, Inc.
163 Harvard St.
Cambridge, MA 02139
617-547-0510
page 159
- OSF/Motif is a vendor-independent toolkit for developing graphic user interfaces for the X Window System. Interfaces developed are portable to all X platforms and compatible with Presentation Manager behavior. Motif features UIL (User Interface Language) which allows prototyping of the interface.
Part No.: N/A; Price: \$500
- Pacer Graph**
Pacer Software, Inc.
7911 Herschel Ave., Suite 402
La Jolla, CA 92037
619-454-0565
page 130
- Pacer Graph adds VT240 monochrome graphics and VT241 color graphics to the Pacer Link terminal emulation product, allowing a Macintosh computer to display ReGIS and Tektronix 4010/4014 graphics. Macintosh editing features are used to mark a graphics region, cut it and paste it into another window where a paint or drawing program can modify it. Volume discounts available.
Part No.: N/A; Price: \$150
- Pacer Link**
Pacer Software, Inc.
7911 Herschel Ave., Suite 402
La Jolla, CA 92037
619-454-0565
page 128
- Pacer Link is a terminal emulation and desktop connectivity program that allows Apple Macintosh users to connect to and use many host computers. Pacer Link provides a variety of capabilities such as file transfer, virtual disk, terminal emulation, and print services that enable Macintosh and PC users to solve their communication and resource-sharing problems. Volume discounts available.
Part No.: N/A; Price: \$2000
- Pacer Post**
Pacer Software, Inc.
7911 Herschel Ave., Suite 402
La Jolla, CA 92037
619-454-0565
page 138
- Pacer Post is a Microsoft Mail-compatible server that runs on a VAX using VMS. It functions like Microsoft's Macintosh based mail server. In addition, Pacer Post provides VAX/VMS resident gateways to VAX based mail systems. Pacer Post mail servers and gateways are designed to function in conjunction with other Microsoft Mail 2.0 servers and gateways to provide enterprise-wide electronic mail capability.
Part No.: N/A; Price: \$1000 to 8000

- PacerPrint** PacerPrint enables VMS or ULTRIX users to take advantage of PostScript printers. PacerPrint includes several filters that translate common file formats (text, Tektronix, Diablo) into PostScript. PostScript files created by users, host applications, or other computers (e.g., IBMPC or Apple Macintosh) can be printed in VMS or ULTRIX fashion.
Pacer Software, Inc.
7911 Herschel Ave., Suite 402
La Jolla, CA 92037
619-454-0565
Part No.: N/A; Price: \$1000 to 4000
page 123
- PacerShare** PacerShare is a software product that enables a VAX VMS, VAX ULTRIX or DEC system/station to act as a large file server for a Macintosh network, providing the same core functionality as a dedicated Macintosh running an AppleShare server. No software beyond the Apple-provided AppleShare client software is required on a Macintosh to access the PacerShare file server.
Pacer Software, Inc.
7911 Herschel Ave., Suite 402
La Jolla, CA 92037
619-454-0565
Part No.: N/A; Price: \$400, volume discounts available
page 123
- Pacer Software, Inc.** Products: PacerLink, PacerPrint, PacerShare, PacerGraph, PacerPost, PacerTOPS
7911 Herschel Ave., Suite 402, La Jolla, CA 92037, 619-454-0565
- PacerTOPS** PacerTOPS enables VAX VMS systems to participate in the distributed file serving environment with any Macintosh or IBMPC on a TOPS network. The merging of the VMS and TOPS file systems results in complete information sharing with performance comparable to a local hard disk. PacerTOPS allows TOPS workstation users to take advantage of the VAX system's disk storage capacity, backup functions and data security features.
Pacer Software, Inc.
7911 Herschel Ave., Suite 402
La Jolla, CA 92037
619-454-0565
Part No.: N/A; Price: \$40, volume discounts available
page 124
- Packet/3270 MAC** Packet/3270 MAC is the Macintosh computer component of Packet/PC's micro-to-mainframe communications software. It is an SNA/ASYNC 3270 emulator for Macintosh computers which provides common, worldwide access to IBM 3270 SNA mainframe application systems via dial-up and public packet networks.
Software By Design, Inc.
98 C Pitkin St.
East Hartford, CT 06108
203-289-5561
Part No.: N/A; Price: \$295
page 179
- PageStudio Graphics** Product: PIXymbols
3175 N. Price Rd., #1050, Chandler, AZ 85224, 602-839-2763
- Personal Computer Peripheral Corp.** Products: DatStream, JetStream, NetStream
4170 Eisenhower Blvd., Tampa, FL 33634, 813-884-3092
- Personal Deft** Personal Deft is a CASE system supporting structured methods approaches of designing relational databases. Used by a single developer working on a Macintosh, the system is comprised of editors for drawing DFDs, ERDs, structure charts, forms and reports, and includes a syntax checker.
DEFT Inc.
557 Dixon Rd., #110
Rexdale, Ontario M9W1H7
416-249-2246
Part No.: N/A; Price: \$5900.
page 35
- Personal Phone** Personal Phone is an interactive AppleTalk desktop communications program based on the metaphor of a telephone. Personal Phone establishes an interactive link between two computers in order to carry on a conversation. All typing appears in a split window on each Macintosh. Background file transfers are possible. No dedicated computer is required.
Personal Software Development Corp.
22 Natalie Dr.
Hampton, VA 23666
804-898-3541
Part No.: N/A; Price: \$99 to \$169
page 26

- Personal Server Network 2.0**
Information Presentation Technologies
23801 Calabasas Rd., Suite 2008
Calabasas, CA 91302
818-347-7791
page 26
- PSN (Personal Server Network) is a distributed network server for Macintosh computers. PSN adopts the AppleShare user interface but requires no dedicated file server. It is compliant with the AppleTalk Filing Protocol and supports multi-user applications like 4th DIMENSION and FoxBASE+/Mac.
Part No.: N/A; Price: \$100 to \$149
- Personal Software Development Corp.**
Product: Personal Phone
22 Natalie Dr., Hampton, VA 23666, 804-898-3541
- Pharos Technologies, Inc.**
Product: STATUS*Mac
4243 Hunt Rd., Cincinnati, OH 45242, 800-548-8871
- PhoneNET Card**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 8
- PhoneNET Card, a twisted-pair Ethernet card for Macintosh computers, features a built-in twisted-pair transceiver, a built-in RJ-45 connector, and universal AUI (Attachment User Interface) connector. It is available for the Macintosh II and SE/30, and comes bundled with Timbuku software.
Part No.: PN480; Price: \$649
- PhoneNET Connector**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 7
- PhoneNET Connector allows different devices such as computers, printers, and file servers on an AppleTalk network to communicate with each other over ordinary telephone cables. PhoneNET Connectors come in three models: Mini DIN-8 plug, DB-9 plug, DB-25 plug. They are compatible with LocalTalk cabling, FlashTalk, and DaynaTalk.
Part No.: PN208, Mini DIN-8; Price: \$60, Single Pack
Part No.: PN210; Price: \$395, 10 Pack
Part No.: PN209, DB-9; Price: \$60
Part No.: PN225, DB-25; Price: \$75
- PhoneNET Repeater**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 8
- PhoneNET Repeater regenerates and redocks AppleTalk and FlashTalk signals allowing networks to extend longer distances and link a variety of network topologies including backbones, daisy chains and stars, and Star Controllers and networks in different buildings. PhoneNET Repeater includes built-in PhoneNET connectors allowing users to attach wire pairs directly to the Repeater.
Part No.: PN200; Price: \$495
- PhoneNet Star Connector**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 8
- Like standard PhoneNET Connectors, Star Connectors run AppleTalk over a single pair of telephone wires. Star Connectors are suited to both passive and active star topologies, the wiring plan used by telephone systems, and are designed for use with Star Controller Series 300. Pre-terminated with 120-ohm resistors, they automatically provide correct termination of each network branch.
Part No.: PN301/PN311; Price: \$29, Single Pack; \$249, 10 Pack
- PhoneNET Star Controller Series 300**
Farallon Computing, Inc.
2000 Powell St., #600
Emeryville, CA 94608
415-596-9100
page 8
- PhoneNET Star Controller Series 300 is a repeating hub used to build AppleTalk networks. It includes a LED display for a summary of traffic on the 12 ports and alerts users to signal errors, and StarCommand 2.0 software for network management.
Part No.: PN307; Price: \$1295

PHOTOLINK PHOTOLINK is a cable-replacement product which uses infrared light as the data transmission medium for connecting Macintosh computers or peripherals in open or partitioned offices or light manufacturing environments. Installation is "plug and play."
Photonics Corp. 200E. Hacienda Ave., Campbell, CA 95008
408-370-3033
Part No.: 000193; Price: \$1195
page 8

Photonics Corp. Product: PHOTOLINK
200E. Hacienda Ave., Campbell, CA 95008, 408-370-3033

PIXymbols PIXymbols are PostScript-based fonts for use in instructional materials and computer documentation relating to the PC. Users can duplicate and create PC screen images for printing from Macintosh system. In addition to a complete monospaced alphabet, including accented characters, the fonts emulate the extended ASCII character set used on the IBM PC. Four system-specific fonts come in one package.
PageStudio Graphics 3175 N. Price Rd., #1050
Chandler, AZ 85224
602-839-2763
Part No.: 2107/09; Price: \$145
page 104

Prime Computer Products: PRIMELINK, PRIMENET
Prime Park, Natick, MA 01760, 508-655-8000

PRIMELINK PRIMELINK's File Transfer facility allows Macintosh users to transfer ASCII, MacBinary, and binary files between a Macintosh computer and MS-DOS-compatible personal computers and the Prime host system, allowing the personal computers to interact with Prime workstations.
Prime Computer Prime Park
Natick, MA 01760
508-655-8000
Part No.: N/A; Price: \$2250 to \$10,250
page 213

PRIMENET Remote Terminal Access allows any terminal in a LAN or WAN to access any Prime host on the network. Remote File Access allows users to access files on other networked Prime systems without regard to their physical location. For specialized network applications, an interprocess communications facility provides a high-level language subroutine interface. Another facility, the File Transfer Service, is a queued mechanism for transferring files between systems.
Prime Computer Prime Park
Natick, MA 01760
508-655-8000
Part No.: N/A; Price: Contact Supplier
page 212

Prometheus Products Products: AckNOWLEDGE, MACKNOWLEDGE, Promodems, Promodem Minifax
7225 SW Bonita Rd., Tigard, OR 97223, 800-477-3473

ProModem Product Line The ProModem product line includes modem with throughput speeds from 300 bps to 19,200 bps, with both internal and external versions available.
Prometheus Products 7225 SW Bonita Rd.
Tigard, OR 97223
800-477-3473
Part No.: PMD-4MF; Price: \$449 (Macintosh compatible). Part No.: PMD-8MF; Price: \$399 (MS-DOS compatible). Part No.: PMD-4; Price: \$279 (ProModem 2400M). Part No.: PMD-8GMNP; Price: \$299 (ProModem 2400M Plus). Part No.: PMD-24MII (Standard configuration); Price: \$299
Part No.: PMD-24MIIB (with MNP-5); Price: \$349. Part No.: PMD-24MIIC (with extra serial port); Price: \$349. Part No.: PMD-24MIID (with extra serial port and MNP-5); Price: \$399
Part No.: PMD-7M; Price: \$239. Part No.: PMD-7MFAX; Price: \$299. Part No.: PMD-24SE; Price: \$299
Part No.: PMD-24SEP; Price: \$349. Part No.: PMD-96M; Price: \$995
page 80

- PServe3.0** PServe provides spooling, queueing, job management and accounting, and supports all Macintosh and DOS computers on LocalTalk and/or Ethernet. PServe is software hosted on a 286 computer with any AppleTalk interface card.
CoOperative Printing Solutions, Inc.
5950 Live Oak Pkwy., Suite 175
Norcross, GA 30093
404-840-0810
Part No.: 10102; Price: \$1125 (PServe with LocalTalk Card)
Part No.: 10121; Price: \$1495 (PServe with EtherTalk and LocalTalk Card)
page 81
- QuickMail v.2.2** QuickMail is an electronic mail system for use on AppleTalk networks, with connections to local and wide area networks, supporting multiple zones and servers, with gateways to UNIX, VAX mainframes, Fax, Novell MHS, CompuServe, AppleLink, and many other systems and services. QuickMail is compatible with AppleShare, TOPS, MacServe, MultiFinder, large-screen displays, and accelerator cards.
CE Software
P.O. Box 65580
West Des Moines, IA 50265
515-224-1995
Part No.: N/A; Price: \$500 per 10 users.
page 25
- R-Server** R-Server is a remote AppleTalk Net Access and gateway/bridge-router. Users can dial-connect two remote AppleTalk networks or dial-in from a stand-alone Macintosh. A remote network appears as a local network and provides all network services such as printing, E-mail, TOPS, AppleShare, etc. Asynchronous speeds up to 57,600 bits/second are available.
Solana Electronics
7887 Dunbrook Rd., Suite A
San Diego, CA 92126
619-573-0800
Part No.: SE810; Price: \$595
page 68
- Racal InterLan, Inc.** Product: AUX-DRV
155 Swanson Rd., Boxborough, MA 01719, 800-LAN-TALK
- Reflection 1 PLUS** Reflection 1 PLUS provides emulation of Hewlett-Packard's 2392A terminal. Features include basic-like script language, KERMIT, XMODEM, proprietary file transfer, MacBinary, context sensitive help, and the ability to backup entire hard disks to a single file on the host.
Walker Richer & Quinn, Inc.
2815 Eastlake Ave., East
Seattle, WA 98102
206-324-0407
Part No.: R1mac; Price: \$299
pages 219
- Reflection 2 PLUS** Reflection 2 PLUS provides emulation of Digital's VT320, VT220, VT102, and VT52 terminals. Features include basic-like script language, KERMIT, XMODEM, Proprietary file transfer, MacBinary and VAX image support, context sensitive help, and the ability to backup entire hard disks to a single file on the host.
Walker Richer & Quinn, Inc.
2815 Eastlake Ave., East
Seattle, WA 98102
206-324-0407
Part No.: R2mac; Price: \$249
pages 131
- Reflection 3 PLUS** Reflection 3 PLUS provides complete and accurate emulation of Hewlett Packard's 2393A graphics terminal. Features include basic-like script language, KERMIT, XMODEM, Proprietary file transfer, MacBinary, context sensitive help, and the ability to backup entire hard disks to a single file on the host.
Walker Richer & Quinn, Inc.
2815 Eastlake Ave., East
Seattle, WA 98102
206-324-0407
Part No.: R3mac; Price: \$399
pages 219
- RELAY Baton** RELAY Baton offers Macintosh-to-mainframe file transfer by connecting to IBM mainframes running RELAY Communications' RELAY/VM or RELAY/TSO software. The product works asynchronously, over normal phone lines; no boards or cables are needed. RELAY Baton graphically represents the IBM mainframe files in the same way as Macintosh computer files.
RELAY Communications, Inc.
41 Kenosia Ave.
Danbury, CT 06810
203-798-3893
Part No.: N/A; Price: \$150
page 179

- RELAY Communications, Inc.** Product: RELAY Baton
41 Kenosia Ave., Danbury, CT 06810, 203-798-3893
- RMSAccess** RMSAccess is a database server for information stored in native VAX RMS files. It allows users of Odesta's Double Helix database on the Macintosh to access and build applications directly using data stored in VAX RMS files. Using Double Helix with RMSAccess, users can build applications that provide a Macintosh front-end to existing VAX-based data.
Odesta Corp.
4084 Commercial Ave.
Northbrook, IL 60062
800-323-5423
Part No.: N/A; Price: \$4900 and up
page 134
- RP244PC Utility** Using the Macintosh point-and-click features, the RP244PC Utility allows the user to program station features into the Rolm phone 244PC, including Autodial, Camp, Conference, Speaker, Pick, and Phonemail.
MACROL, Inc.
496 Coelho St.
Milpitas, CA 95035
408-945-0346
Part No.: N/A; Price: \$495
page 85
- SendExpress v1.0** SendExpress is a desk accessory that sends files and Clipboard selections directly between Macintosh computers on an AppleTalk network. It sends and receives in the background and does not require a network server. Sending Clipboard selections simulates copying and pasting across the network.
Gizmo Technologies
P.O. Box 14177
Fremont, CA 94539
415-623-7899
Part No.: N/A; Price: \$179
page 24
- SequelLink v2.1** SequelLink 2.1 allows co-operative processing between Macintosh and VAX computers. Users can write a Macintosh front-end to a relational database residing on a VAX, using environments such as HyperCard, SuperCard, MSeExcel, or 4D, and compiled languages such as C or Pascal.
TechGnosis, Inc.
621 NW 53rd St.
Boca Raton, FL 33487
407-997-6687
Part No.: N/A; Price per server: \$4995. Price per simultaneously connected Macintosh varies between \$195 and \$695 depending on the number of connections desired.
page 134
- Session** Session is a family of terminal emulators for the Macintosh computer that allows the Macintosh computer to communicate with the HP 1000, 3000, and 9000 lines of computers. All Session products include a file-transfer facility that lets users move data between the HP system and the Macintosh computer and supports intelligent file-conversion options.
Tym Labs Corp.
811 Barton Springs Rd., Suite 511
Austin, TX 78704
512-478-0611
Part No.: N/A; Price: \$199 to \$399
page 219
- Shiva Corporation** Products: NetModem V2400, NetSerial X232, NetBridge, TeleBridge, EtherGate, DOS-Connect, NetModem V.32, FastPath 4 Gateway
155 Second St., Cambridge, MA 02141, 617-864-8500
- Simware, Inc.** Product: Mac3270
20 Colonnade Rd., Ottawa, Ontario Canada K2E 7M6, 613-727-1779
- Simware Mac3270** Mac3270 standardizes the user interface and file transfer across many different 3270 emulation methods and network protocols and allows Macintosh users full implementation of the Macintosh computer interface to access host data and applications across most emulation methods.
Simware, Inc.
20 Colonnade Rd.
Ottawa, Ontario Canada K2E 7M6
613-727-1779
Part No.: N/A; Price: Contact Supplier
page 179

- SMARTCOMII for the Macintosh**
Hayes Microcomputer Products
P.O. Box 105203
Atlanta, GA 30348
404-449-8791
page 79
- SMARTCOMII** (Version 3.1) communications software is designed to take advantage of all the features of Hayes modem products. SMARTCOMII for the Macintosh incorporates features such as storing phone numbers and frequently used commands as well as capturing files to disk or printer.
Part No.: N/A; Price: \$149
- Smartmodem Series**
Hayes Microcomputer Products
P.O. Box 105203
Atlanta, GA 30348
404-449-8791
page 78
- Smartmodem 1200 is an external 103,212A/CCITT V.22 compatible 1200 bps modem. Smartmodem 2400 is an external 103,212A/CCITT V.22, CCITT V.22bis compatible 2400 bps modem. Smartmodem 2400M is an internal 103,212A/CCITT V.22 and V.22bis 2400 bps modem. Smartmodem 9600 is a CCITT V.32 compatible 4800 and 9600 bps modem for data communications network applications.
Part No.: N/A; Price: \$499 to \$1999
- SmartTalk**
INTERPRETER, Inc.
11455 West 48th Ave.
Wheat Ridge, CO 80033
800-232-4687
page 24
- SmartTalk converts fully formatted documents between the Macintosh computer and the Digital VAX, Wang VS, dedicated word processors, and IBM PCs. Users can activate conversions from their stand-alone Macintosh computers or from any Macintosh on an AppleTalk network. SmartTalk also provides terminal emulation for communication with minicomputer hosts.
Part No.: N/A; Price: \$100 to \$4500
- SMB File Transfer Utility**
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
page 101
- The SMB File Transfer Utility software, provided with the Apple TokenTalk NB Card, allows users of Macintosh and IBM-compatible personal computers to exchange files and share information in their workgroups. Macintosh II systems on a token ring network can access information on IBM PC LAN Program SMB (Server Message Block) file servers. Files can be transferred and translated using the Apple File Exchange (included).
Part No.: N/A; Price: \$1250 for TokenTalk NB Card (Includes TokenTalk software and SMB File Transfer)
- SNADS Gateway to 3+Mail, cc:Mail, and MS Mail**
Soft-Switch, Inc.
640 Lee Rd.
Wayne, PA 19087
page 191
- The Soft-Switch SNADS Gateways, in conjunction with other Soft-Switch products or with IBM's DISOSS, extend the distribution capabilities of 3Com's 3+Mail for the PCs and 3+Mail for Macintosh, Microsoft Mail, and cc:Mail. Users can exchange mail in the form of final-form messages, editable documents, and binary files with users of other systems that are connected to a Soft-Switch Enterprise Mail Network or to DISOSS.
Part No.: N/A; Price: \$1665
- SoftPC**
Insignia Solutions
254 San Geronimo Wy.
Sunnyvale, CA 94086
408-522-7600
page 105
- SoftPC provides PC-compatibility for Macintosh computers by emulating the hardware environment of an IBM PC XT with EGA graphics, or optionally an IBM AT computer. SoftPC uses the SuperDrive and the Macintosh hard disk to read/write PC files. The Macintosh runs the MS-DOS programs that create and modify PC files and data directly.
Part No.: N/A; Price: \$399 to \$598
- Software AG**
Products: NATURAL ARCHITECT, NATURAL CONNECTION
11190 Sunrise Valley Dr., Reston, VA 22091, 703-860-5050
- Software By Design, Inc.**
Product: Packet/3270
98 C Pitkin St., East Hartford, CT 06108, 203-289-5561
- Software Innovations, Inc.**
Product: HandOff II
P.O. Box 811, Allen, TX 75002, 214-727-2329

- Software Ventures** Product: MicroPhone II v3.0
2907 Claremont Ave., Berkeley, CA 94705, 415-644-3232
- Solana Electronics** Products: R-Server, C-Server, NetAccess
7887 Dunbrook Rd., Suite A, San Diego, CA 92126, 619-573-0800
- Solutions, Inc.** Product: FAXGATE
30 Commerce St., Williston, VT 05495, 802-865-9220
- Spectrum Concepts, Inc.** Product: Xcom
150 Broadway, Suite 814, New York, NY 10038, 212-766-4400
- SpoolAT** SpoolAT software connects the Apple LaserWriter printer and other AppleTalk-compatible printers to a Tandem host. This allows a Tandem-resident print process to be used in conjunction with Macintosh applications. Up to 16 separate Macintosh print locations can be supported by a single SpoolAT Tandem print process.
Menlo Business Systems, Inc.
201 Main St.
Los Altos, CA 94022
415-948-7920
Part No.: N/A; Price: Per Macintosh \$295, Per Tandem site \$995
page 204
- SQL/Services for Macintosh** SQL/Services software extends the power and capacity of Digital's database server environment to the desktop by incorporating existing and emerging industry-standard interfaces into Digital's relational database platform. SQL/Services software lets remote desktop applications access VAX Rdb/VMS relational databases.
Digital Equipment Corp.
30 Porter Rd. (LJO2/C10)
Littleton, MA 01460
Part No.: N/A; Price: Contact Supplier
page 135
- StarBurst** The StarBurst is an active star-hub controller that distributes LocalTalk cabling in a star topology. Each StarBurst module supports up to 16 connections. Up to four StarBurst modules can be mounted on the back of a rack or wall mounted, 64-port, RJ-11 patch panel measuring 7" by 19". Since each StarBurst module operates independently, each module on a panel can be in a different Internet Zone.
Cactus Computer, Inc.
1120 Metrocrest Dr., #103
Carrollton, TX 75006
214-416-0525
Part No.: CCSB16PP (One StarBurst Module & Patch Panel, 16 ports); Price: \$699
page 7
- StarNine Technologies, Inc.** Product: Mail*Link SMTP
2126 Sixth St., Berkeley, CA 94710, 415-548-0391
- STATUS*MAC** STATUS*Mac allows Macintosh network managers to gather comprehensive information about software and hardware components on their network. This is accomplished remotely, without the need to visit workstations. Information is then imported into the STATUS*Mac Master Database. The Master Database generates customized reports using searches, sorts, and filters.
Pharos Technologies, Inc.
4243 Hunt Rd.
Cincinnati, OH 45242
800-548-8871
Part No.: N/A; Price: \$799
page 22
- Sun Microsystems, TOPS Division** Products: TOPS FlashCard, TOPS FlashBox, InBox Plus, InBox Plus/PC, TOPS Network for Macintosh, TOPS Network Bundle for DOS, InBox, TOPS netPrint, TOPS Repeater, TOPS TeleConnector
950 Marina Village Pkwy., Alameda, CA 94501, 800-445-TOPS
- Sunrise Systems** Product: ZapFax
705 West Valley Dr., #1, Campbell, CA 95008, 408-377-3753
- Supra Corporation** Products: Supra Modem 2400, Supra Modem 2400 Plus, Supra Modem MacPac
1133 Commercial Wy., Albany, OR 97321, 503-967-9075

SupraModemSeries The SupraModem 2400 line of modems work with MultiFinder and supports U.S. and international protocols: Bell 103/212A and CCITT V.21, V.22, V.22bis. They all feature Hayes compatibility; 300-1200-2400 bps operation; Auto Answer/Auto Dial (tone or pulse); a programmable, non-volatile memory; status LEDs; and an adjustable volume speaker. The SupraModem Plus features MNP levels 2-5 and CCITT V.42bis error correction and data compression protocols. The SupraModem 2400 MacPac includes MicroPhone 1.5 telecommunication software, SupraModem 2400, Macintosh cable, and software and on-line time for the Macintosh specific American Online service.
 SupraCorp.
 1133 Commercial Wy.
 Albany, OR 97321
 503-967-9075
page 78

Sybase Products: DB-Library, Hyper/DB-Library
 6475 Christie Ave., Emeryville, CA 94608, 800-8SYBASE

Sybase API for Macintosh Sybase is a relational database management system for on-line applications and decision support. With Sybase's client/server architecture, client-user interface functions are separated from server data management and transaction functions.
 Sybase
 6475 Christie Ave.
 Emeryville, CA 94608
 800-8SYBASE
page 135

Symicron, Inc. Product: DTSX-14
 23545 Crenshaw Blvd., Suite 104, Torrance, CA 90505, 213-530-2610

SyncRouter SyncRouter allows connection of remote AppleTalk networks over high speed synchronous communication links. Remote AppleTalk networks are connected so that transparent access to services such as printers, file servers, mail servers, and databases are accessible via the Macintosh Chooser. Standard synchronous interfaces: V.35, RS-449, RS-232 with built-in link diagnostics.
 Engage Communications, Inc.
 9053 Soquel Drive, Suite 201
 Aptos, CA 95003-4034
 408-688-1021
page 15

Synergy Software Products: VersaTerm, VersaTerm PRO
 2457 Perkiomen Ave., Reading, PA 19606, 215-779-0522

SynOptics Coaxial-to-Unshielded Twisted-Pair Products SynOptics' thin net adapter provides an interface between unshielded twisted-pair wire and thick or thin coaxial cable segments. The LattisNet attachment unit interface/unshielded twisted-pair (AUI/UTP) workgroup concentrator provides a direct connection between standard or thin coaxial Ethernet networks and unshielded twisted-pair LattisNet networks.
 SynOptics Communications
 501 E. Middlefield Rd.
 Mountain View, CA 94043
 800-PRO-8023
page 71

SynOptics Communications Products: LattisNet Utility Solutions, LattisNet Network Management Modules, LattisNet System 3000 Ethernet Local Bridge Modules, Network Interface Cards, Coaxial-to-Unshielded Twisted-Pair Products
 501 E. Middlefield Rd., Mountain View, CA 94043, 800-PRO-8023

SynOptic's Network Interface Cards SynOptics' Network Interface Cards provide a direct connection from Macintosh computers to unshielded twisted-pair LattisNet networks. The cards reside on the host computers, where an unshielded twisted-pair RJ-45 modular receptacle offers direct access to the building's installed unshielded twisted-pair wiring system.
 SynOptics Communications
 501 E. Middlefield Rd.
 Mountain View, CA 94043
 800-PRO-8023
page 72

- Tactician** Tactician uses three types of technologies to manipulate data into an understandable format: Geographical Information System (GIS) technology, Executive Information System (EIS) technology, and Decision Support System (DSS) technology. Tactician uses Apple's Data Access Language (DAL) to access host-based data.
Tactics Int'l Ltd.
16 Haverhill St., 3rd Floor
Andover, MA 01810
508-475-4475
page 41
Part No.: N/A; Price: Contact Supplier
- Tactics Int'l Ltd.** Product: Tactician
16 Haverhill St., 3rd floor, Andover, MA 01810, 508-475-4475
- Taniwha Systems Design** Product: CommCard
2206 Roosevelt Ave., Berkeley, CA 94703, 415-540-5557
- TCP/Connect II** TCP/Connect II is an application that allows a Macintosh computer to access TCP/IP services. Included in the extended edition are support for Telnet (the network terminal protocol), FTP (file transfer protocol), POP/SMTP (electronic mail), and NNTP (the network news protocol). TCP/Connect II can be used to access IBM mainframes, Digital VAX systems, PC compatibles, most UNIX machines, and other Macintosh computers.
InterCon Systems Corp.
950 Hemdon Pkwy., Suite 390
Hemdon, VA 22070
703-709-9890
page 156
Part No.: N/A; Price: \$495
- TCPort v2.0** TCPPort Developers Toolkit is a software platform for the development of distributed Macintosh applications running on top of TCP/IP. TCPPort consists of two parts: (1) a choice of two basic TCP/IP transport systems: Novell's TCPort and Apple's MacTCP, and (2) an application programming interface (API). The TCP/IP transport systems, including drivers for TCP, IP and UDP, provides TCP/IP connectivity, allowing Macintosh computers to communicate with other TCP/IP hosts, servers, and workstations on a network.
Novell, Inc.
Sales Dept., Developer Products
5918 W. Courtyard Dr., Suite 220
Austin, TX 78730
800-733-9673
page 157
Part No.: N/A; Price: \$2500
- TechGnosis** Product: SequeLink 2.1
621 NW 53rd St., Boca Raton, FL 33487, 407-997-6687
- TeleBridge** TeleBridge is a remote router for AppleTalk networks. Two networks, each equipped with a TeleBridge and modem can connect over phone lines to form a single internetwork. TeleBridge also includes dial-in network access, which allows a user to access file servers, printers, electronic mail, and other AppleTalk resources from a remote location.
Shiva Corporation
155 Second St.
Cambridge, MA 02141
617-864-8500
page 16
Part No.: N/A; Price: \$499
- Telnet Driver** The InterCon Telnet Driver installs into VersaTerm-Pro or Microphone II v3.0, and allows these programs to communicate with a host computer over a TCP/IP virtual terminal connection (TELNET).
InterCon Systems Corp.
950 Hemdon Pkwy., Suite 390
Hemdon, VA 22070
703-709-9890
page 157
Part No.: N/A; Price: \$149
- telnet-PM** telnet-PM is a protocol module for MacWorkStation which uses TCP/IP to send commands and events between the host application and MacWorkStation. Many host computers use the TCP/IP Telnet virtual terminal protocol to allow terminal connections to host computers over Ethernet communications links.
Ramsay Consulting
507 Second St.
Ann Arbor, MI 48103
313-665-2819
page 157
Part No.: N/A; Price: \$75

- Telos Systems Development** Product: MacNOW
3420 Ocean Park Blvd., Santa Monica, CA 90405, 219-484-0348
- TGRAF-07/Mac** TGRAF-07/MAC is Tektronix 4107 graphics-terminal emulation software that allows the Macintosh II to connect to a host computer and access mainframe applications. TGRAF is a tool for CAD/CAM, data analysis and representation, mapping, molecular design, and application development. It emulates Tektronix 4010, 4014, 4105, 4106, and 4109 graphics terminals, and Digital VT102, VT100, and VT52 test terminals.
Grafpoint
1485 Saratoga Ave.
San Jose, CA 95129-4934
408-446-1919
Part No.: N/A; Price: \$995
page 131
- Timbuku** Timbuku allows users to observe or control another Macintosh over an AppleTalk network. Multiple users can share screens across the network for workgroup collaboration, user support, network management, shared resources, teaching, and training purposes. Timbuku includes file transfer to exchange files and password protection options.
Farallon Computing, Inc.
2000 Powell St., Suite 600
Emeryville, CA 94608
415-596-9100
Part No.: SW400; Price: \$149, Single Pack
Part No.: SW430; Price: \$1995, 30 Pack
page 18
- Timbuku/Remote** Timbuku/Remote allows users to observe or control another Macintosh computer from their own over a dial-up telephone line, serial links, or ISDN services. It includes file transfer to exchange files, "chat" with another user, and password protection and options. The product is used for remote access and support, training, network management, and workgroup collaboration.
Farallon Computing, Inc.
2000 Powell St., Suite 600
Emeryville, CA 94608
415-596-9100
Part No.: SW401; Price: \$195
page 18
- TopsFlashBox** A plug-in device for Macintosh computers, TOPSFlashBox increases the data transfer rate from the standard AppleTalk 230 Kbps to FlashTalk 770 Kbps.
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
Part No.: A8300088 (DIN-8); Price: \$189
Part No.: A8300107 (DB-9); Price: \$189
page 57
- TOPSFlashCard** TOPSFlashCard is a network interface card that allows PCs to communicate on an AppleTalk network with other PCs and Macintosh computers using simple twisted-pair cabling. TopsFlashCard is available in AT bus and Micro Channel bus configurations allowing it to be used with any IBM PC, XT, AT, PS/2, or compatible machine.
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
Part No.: A1400118; Price: \$239
page 56
- TOPSNetPrint** TOPSNetPrint allows a PC or compatible to print to an Apple LaserWriter or other AppleTalk compatible printer over an AppleTalk network. TOPSNetPrint is compatible with DOS software applications, including applications that do not offer PostScript drivers. NetPrint supports PostScript files generated by DOS application software. It also allows users to print accurate "screen dumps."
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
Part No.: N/A; Price: Contact Supplier
page 57
- TOPSNetwork for Macintosh v3.0** TOPSpeer-to-peer file sharing lets users connect Macintosh, PC, and Sun workstations. TOPSSpool allows users to spool documents to any AppleTalk laser printer. The MacLinkPlus/TOPS Translators translate between Macintosh and PC file formats. TOPSInBox is an electronic mail system for up to 20 users.
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
Part No.: 600-2360; Price: \$299
page 55

- TOPS Network Bundle for DOS v3.0**
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
page 55
- The TOPS Network Bundle for DOS allows PCs to share files, printers, and electronic mail on an AppleTalk LAN. TOPS connects PCs, Macintosh computers, and Sun Workstations. TOPS allows PC users to share printers, including networked LaserWriter printers. The bundle includes TOPS InBox, an electronic mail system for up to 20 users.
Part No.: 600-2470 (5.25-inch); Price: \$249
Part No.: 600-2471 (3.5-inch); Price: \$249
- TOPS Repeater**
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
page 58
- TOPS Repeater is a hardware unit that amplifies electrical signals along LocalTalk or twisted-pair cabling. TOPS Repeater also allows users to add branches to the basic "bus" layout of the TOPS network.
Part No.: A8100127; Price: \$189
- TOPS TeleConnector**
Sun Microsystems, TOPS Division
950 Marina Village Pkwy.
Alameda, CA 94501
800-445-TOPS
page 58
- The TOPS TeleConnector is a network connector which provides the physical link between microcomputers and peripherals on a LAN by allowing telephone wire to be used as the network cabling. The TOPS TeleConnectors support both TOPS FlashTalk (770 Kbps) and AppleTalk (230 Kbps) network communications protocols on a PC-to-PC network.
Part No.: 605-1177 (Din-8); Price: \$59
Part No.: 605-1176 (DB-9); Price: \$59
- Tri-Data Systems, Inc.**
Products: Netway 1000, LanWay TR 16/4, MaxWay 500 Family
3270 Scott Blvd., Santa Clara, CA 95054, 408-727-3270
- TSSnet**
Alisa Systems Inc.
221 East Walnut St., Suite 175
Pasadena, CA 91101
818-792-9474
page 125
- TSSnet provides DECnet services for the Macintosh allowing the user to communicate with any DECnet host including VAX systems, IBM-PC systems, and IBM mainframes, as well as other Macintosh systems. TSSnet allows DECnet and AppleTalk to operate on the same Macintosh simultaneously providing access to services on both networks.
Part No.: TSSnet TSS1D; Price: \$495
- Tymlabs Corp.**
Product: Session
811 Barton Springs Rd., Suite 511, Austin, TX 78704, 512-478-0611
- Ungermann-Bass, Inc.**
Products: Access/One MaxTalk Interface Module, Net/One MacUWS
P.O. Box 58030, Santa Clara, CA 95052-8030, 408-496-0111
- Unipress, Inc.**
Products: Makeeasy 2.1, MacNix 3.1
2025 Lincoln Hwy., Edison, NJ 08817, 201-985-8000
- uShare**
Information Presentation Technologies
23801 Calabasas Rd., Suite 2008
Calabasas, CA 91302
818-347-7791
page 155
- uShare networks Macintosh computers and PCs to UNIX. Besides allowing the UNIX host to act as an AppleShare file server, uShare offers print spooling, electronic mail, and remote Macintosh system disks. Macintosh clients can be on Ethernet or LocalTalk, connected to the host directly or through a gateway.
Part No.: N/A; Price: \$955 to \$3625
- Vano Associates**
Product: MacChuck v1.5
P.O. Box 12730, New Brighton, MN 55112, 612-788-9547

- VersaTerm/VersaTerm-PRO**
Synergy Software
2457 Perkiomen Ave.
Reading, PA 19606
215-779-0522
page 130
- VersaTerm and VersaTerm-PRO provide text and color graphics terminal emulation to DEC VT100, VT220, and Data General D200 text terminals and Tektronix 4010, 4012 and 4014 graphics terminals. VersaTerm-PRO also provides a Tektronix 4105 color graphics emulation. File transfer capability is compatible with XMODEM, YMODEM and Kermit protocols in text, binary, and MacBinary formats. Part No.: MAC555; Price: \$149
- VMacS**
White Pine Software
P.O. Box 1108
Amherst, NH 03031
603-886-9050
page 127
- VMacS is a VAX application that allows Macintosh users to store Macintosh files on the Digital VAX computer. All Macintosh files can be transferred to the VAX, stored in MacBinary format, and they will retain their original characteristics when returned to the Macintosh computer. Part No.: N/A; Price: \$399 to \$999
- V-series System Products**
Hayes Microcomputer Products
P.O. Box 105203
Atlanta, GA 30348
404-449-8791
page 79
- In addition to the functionality of a standard Smartmodem product, the V-series products support error control and data compression. CCITT V.42 compliance provides modem error-control through LAPM and the alternative protocol in Annex A for backward compatibility with MNP 2-4 modems. The support of CCITT V.42bis data compression provides 4 to 1 compression. Part No.: N/A; Price: V-series Smartmodem 2400, \$649
Part No.: N/A; Price: V-series Smartmodem 9600, \$999
- VStem and VsCom/Macintosh**
MacSoft
2920 F St.
Bakersfield, CA 93301
312-443-1222

MH Group
222 West Adams St.
Chicago, IL 60606
312-443-1222
page 208
- VStem from MacSoft and VsCom/Macintosh from MH Group provide Wang 2110 terminal emulation for document transfer and conversion. With VStem, any PC with a serial port can emulate the Wang 2100 or VT100 terminals, exchange documents and data with the Wang VS, and convert Wang VS data to PC platforms. VsCom/Macintosh provides Wang VS 2110 terminal emulation. The program also provides file transfer and conversion between Macintosh and Wang word-processing formats. Part No.: N/A; Price: \$195 to \$2495
- Walker Richer & Quinn, Inc.**
Products: Reflection 1 Plus, Reflection 2 Plus, Reflection 3 Plus
2815 Eastlake Ave., East, Seattle, WA 98102, 206-324-0407
- Webster Computer Corp.**
Product: MultiGate
2109 O'Toole Ave., Suite J, San Jose, CA 95131-1303, 408-954-8054
- White Pine Software**
Products: Mac240, Mac241, Mac220, eXodus, VMacS, Comm Solutions
P.O. Box 1108, Amherst, NH 03031, 603-886-9050
- WingZ DataLink**
Informix Software, Inc.
16011 College Blvd.
Lenexa, KS 66219
913-599-7100
page 42
- WingZ-DataLink gives users the ability to access and update corporate data directly from the desktop computer. Without knowing SQL, the user can access data and then apply WingZ' analytical and presentation functions to manipulate the information. Part No.: N/A; Price: Wingz 1.1 \$399, DataLink \$19

- Worldtalk 400** Worldtalk 400 is an architecture for enterprise-wide messaging based on X.400. Along with the core Touch Communications Worldtalk product, Touch provides seven gateways and the gateway engine based on this architecture. Worldtalk allows preservation of the end-user interface already installed as well as expansion of the communities of mail users that can be reached.
250 E. Hacienda Ave.
Campbell, CA 95008
408-374-2500
Part No.: N/A; Price: \$2000 to \$8000
page 82
- XCOM** XCOM 6.2 on the Macintosh provides a set of file transfer functions, remote report printing, and job submission between Macintosh and all major IBM and non-IBM systems. It utilizes APPC/LU 6.2 to create a peer-to-peer environment.
Spectrum Concepts, Inc.
150 Broadway, Suite 814
New York, NY 10038
212-766-4400
Part No.: N/A; Price: \$495
page 102
- xFer 1.1** xFer is a file transfer system which allows MS-DOS computers to exchange files, folders, and directories with the Macintosh family of computers. xFer includes software for both computers and an optional 12-foot serial cable used for communications. xFer allows modem or direct connections, supporting baud rates from 300 to 57.6 kbps.
Messenger Software, Inc.
180 W. Streetsboro Rd., Unit #5, Suite #302
Hudson, OH 44236
216-688-0696
Part No.: N/A; \$100
page 102
- XINET for HP 9000** Shiva hardware can be used with XINET software for HP 9000. XINET for HP 9000 resides on the HP host and functions in the following ways: Macintosh and MS-DOS computers share files; the Macintosh computer acts as a terminal emulator to HP hosts; and XINET serves as a PostScript print spooler for both Macintosh and HP users.
Mt. Xinu, Inc.
2560 Ninth St., #312
Berkeley, CA 94710
415-644-0146
Part No.: N/A; Price: \$895 to \$6895
page 220
- XView 2.0 with OPENLOOK for A/UX 2.0** XView, the X-based Visual/Integrated Environment for Workstations, features an object-oriented interface that follows the specifications for the OPENLOOK Graphic User Interface (GUI). The XView Toolkit offers a set of OPENLOOK-conformant interface objects, graphic metaphors, and help for novice users.
Integrated Computer Solutions
163 Harvard St.
Cambridge, MA 02139
617-547-0510
Part No.: N/A; Price: \$500 per CPU
page 159
- XWindow System for A/UX** XWindow System for the A/UX operating system lets A/UX users run X client applications. The A/UX Finder software, a special version of the Macintosh MultiFinder adapted for A/UX, allows users to run X client application, Macintosh productivity applications, and UNIX programs concurrently. X Window System for A/UX complies with the standards and conventions stipulated by the MIT X Consortium.
Apple Computer, Inc.
20525 Mariani Ave.
Cupertino, CA 95014
408-996-1010
Part No.: N/A; Price: \$295
page 159
- ZapFax** ZapFax consists of a 99-year license to use four software modules: a server; a patch to Apple's ImageWriter driver that captures the spooled print file; Failed Faxes, which shows the user all the faxes that have failed; and Shutdown, which allows users to shut down the fax server.
Sunrise Systems
705 West Valley Dr., #1
Campbell, CA 95008
408-377-3753
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