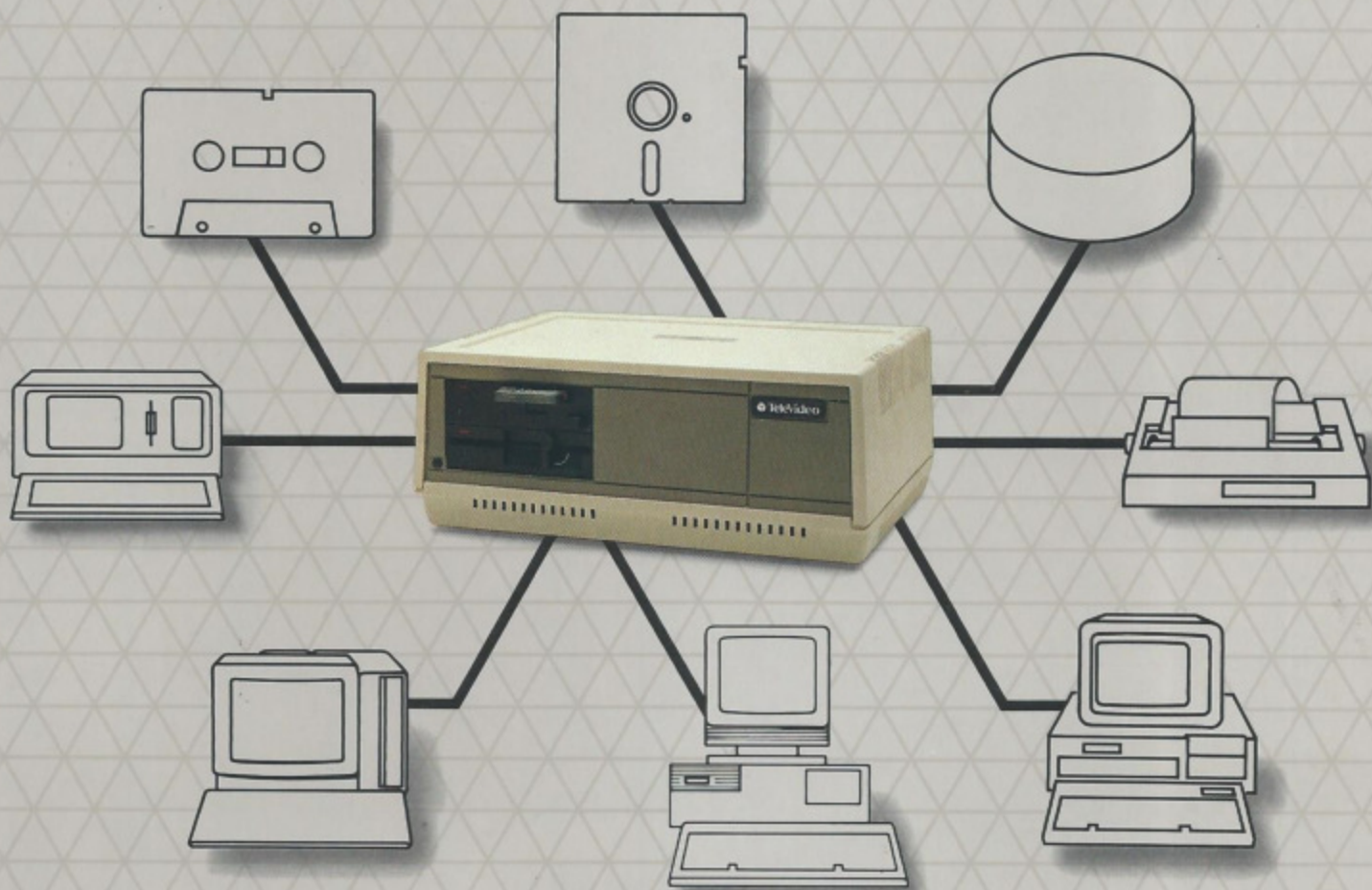


**THE
PERSONAL MINI
FAMILY
FROM TELEVIDEO**

*If You're Thinking About
Expanding Your Business
Computing Needs . . .*



TeleVideo
Systems

Think About Expanding With The TeleVideo Personal Mini Family

The TeleVideo Personal Mini Family contains everything you need to expand your individual personal computers into a powerful multi-user/network system. When you combine your personal computers with TeleVideo's Personal Mini file servers, workstations, printers, and software, you get the immediate multi-user capabilities you need **plus** a growth path for future expansion. And you get all of this from one manufacturer—

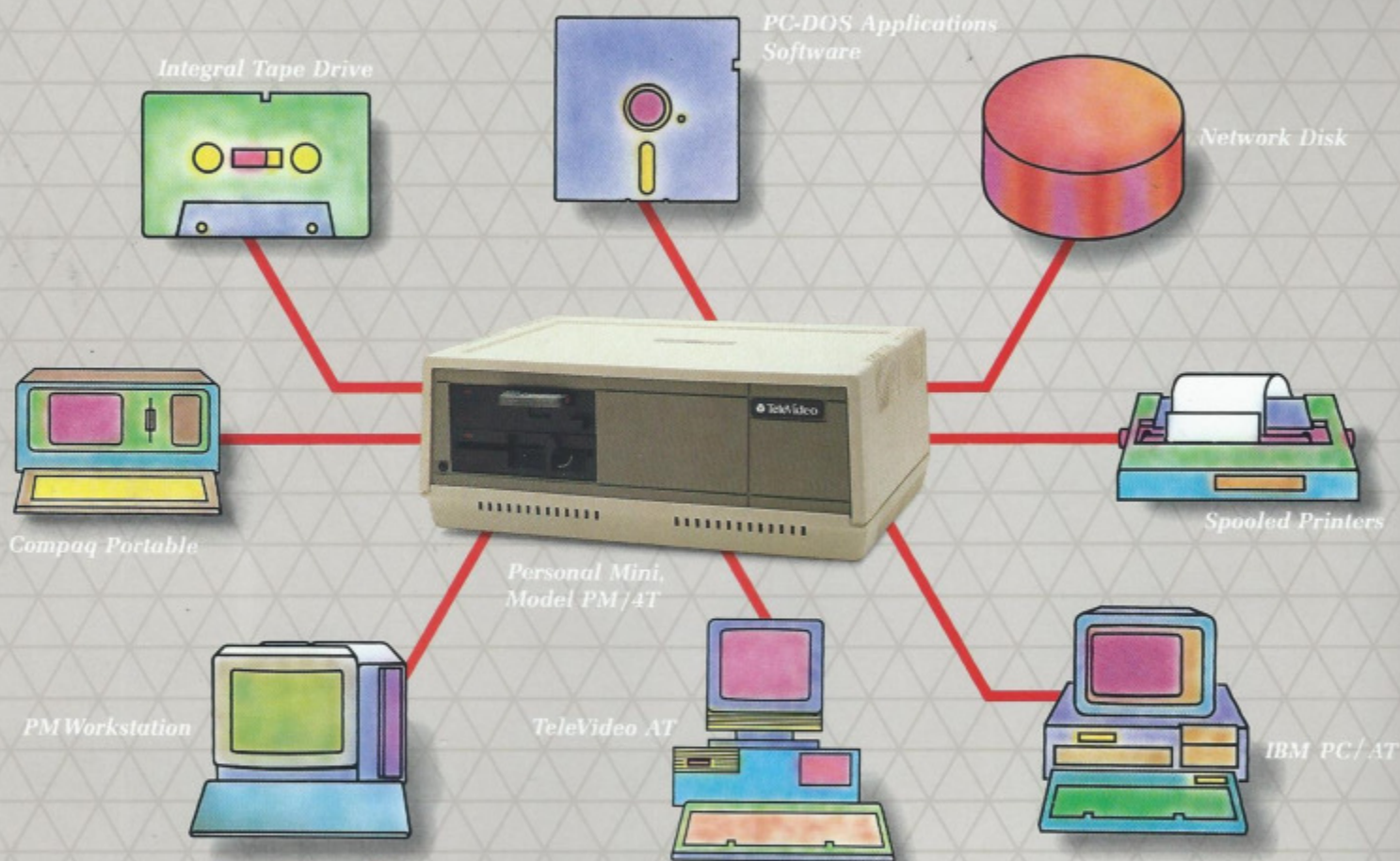
TeleVideo. No connection problems, no compatibility problems, and no performance problems.

Why Should You Consider the Personal Mini Family for Your Office?

Because of the benefits it offers! The Personal Mini network will connect your personal computers together into a multi-user system and

- Increase your work group's productivity
- Enhance the performance of your existing PCs
- Provide an impressive growth path for the future
- Expand the variety of applications software you can run

Take advantage of TeleVideo's multi-user record. We've installed over 20,000 networks and designed the Personal



"TeleVideo has introduced . . . the Personal Mini. It's remarkable for what it doesn't do. It doesn't fail if just one machine in the network goes down; it doesn't make you switch to new software nor does it make you learn a new operating system."

PC Business World, February, 1985

Mini from years of experience. Gain from our learning curve!

Increased Productivity

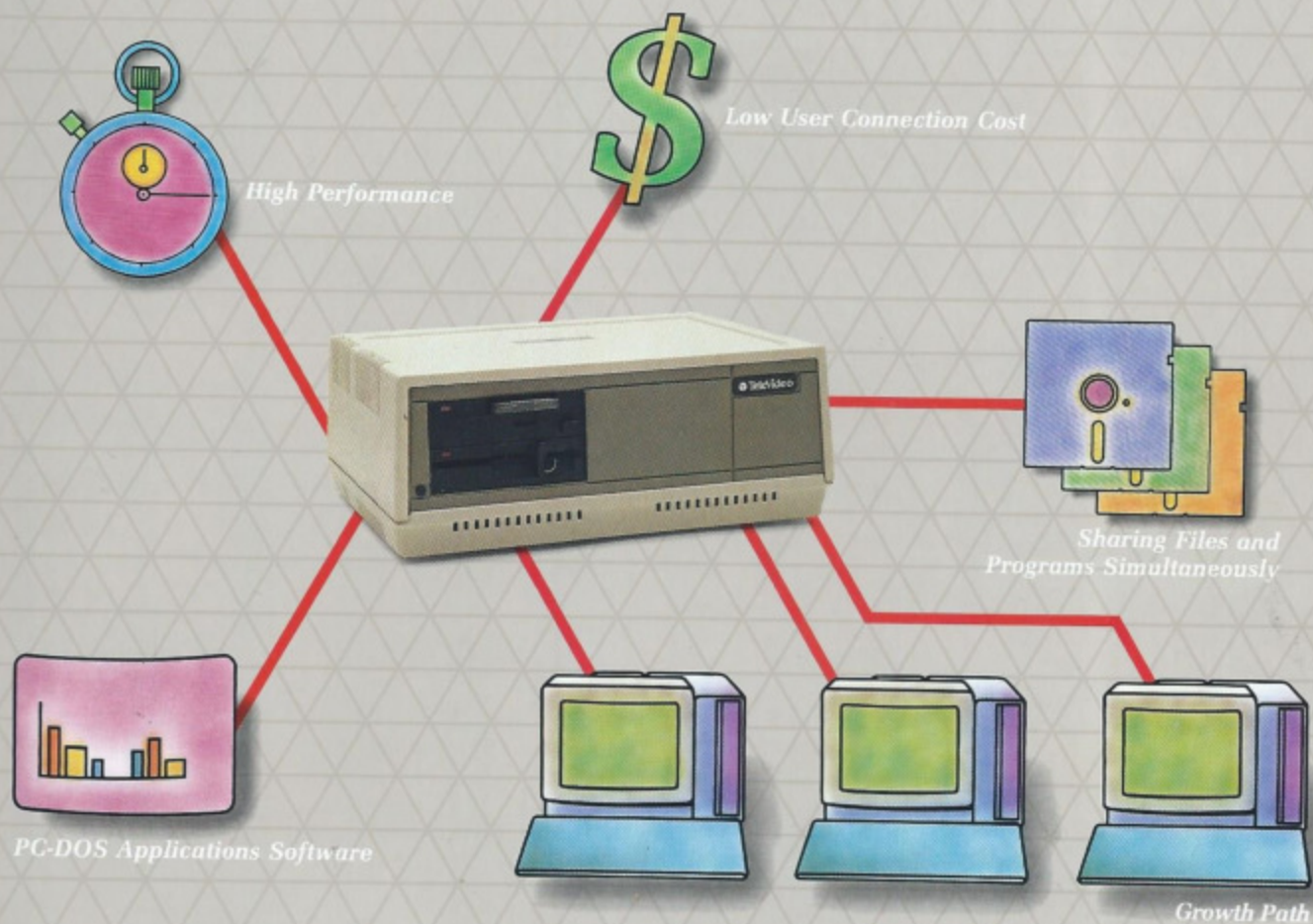
The Personal Mini **increases** your office productivity by tying your office work groups together. Everyone will be able to work in the same files simultaneously, easily transfer files to one another, share data and applications programs, send messages back and forth, and share ex-

Growth Path For Your IBM PCs and Compatibles

The investment you've made in hardware, software and training is not cancelled out by your investment in the Personal Mini. In fact, it is put to better use. Your personal computers now have a new home in a multi-user environment. No matter how much your needs grow, your equipment will never become obsolete because each piece of your

Users Run Their Current Software

Users can move to a Personal Mini system and continue to use the programs and files they are using now. The only new things they need to learn are a few operating system commands and any new applications software they will use. The transition is easy!



pensive peripherals. An entire group of users working together is much more effective than single users working at their own personal computer.

Improved PC Performance

Your PCs and PC-compatibles actually run **faster** with the Personal Mini. Why? Because the Personal Mini file server, to which all personal computers (workstations) are connected, is a powerful system running an even **more** powerful operating system. The Personal Mini has been optimized for disk input/output and high performance.

equipment will be part of your future system.

Powerful Applications Software

The Personal Mini runs all PC-compatible software including Lotus 1-2-3, Framework, Symphony, Multi-Mate, dBASE II and Crosstalk. It also runs multi-user minicomputer software—software that is installed in many locations, has years of development and improvement behind it, and is known for its sophisticated features.

The Personal Mini Design—How The File Servers, Workstations, Printers and Software Work Together

The Personal Mini family of products is based on a **distributed processing** design. Distributed processing simply means that Personal Mini users have their own processor. The Personal Mini distributes computing power right to your desktop.

Distributed Processing

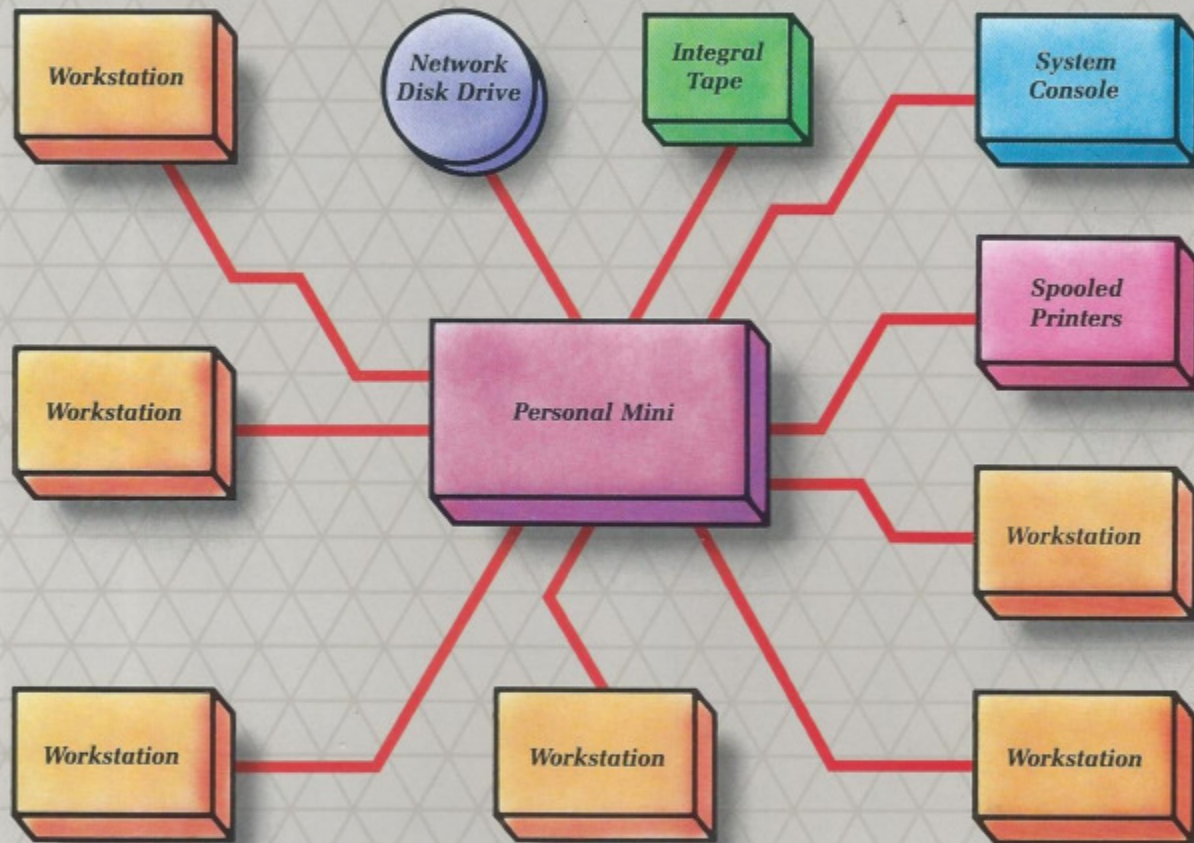
Distributed processing allows applications software to run in the workstations and **not** the file server. Since all applications software is run in individual workstations, users are not affected by the software other users run. The Personal Mini file server is free to concentrate on network file management and print spool control.

Fast and Efficient

The Personal Mini is designed for high-speed business applications, and the distributed processing design allows this to happen. You get continued high performance as more workstations are added—**no performance degradation**.

Simple Star Network

The Personal Mini is a star network. Star networks are built for high data through-



“System speed is impressive: File transfers from the hard disk were close to the fastest I have seen on multiuser micros . . . Since actual ‘computing’ is performed with each PC on the system, computation time does not degrade as users are added to the system.”

Business Computer Systems, February, 1985

put, simple installation, and low-cost connection of workstations. It only costs \$99 to connect your personal computers to the Personal Mini.

Personal Mini File Servers— Models PM/4T and PM/16T

Personal Mini file servers can connect up to 16 personal computers. They are dedicated to managing multi-user

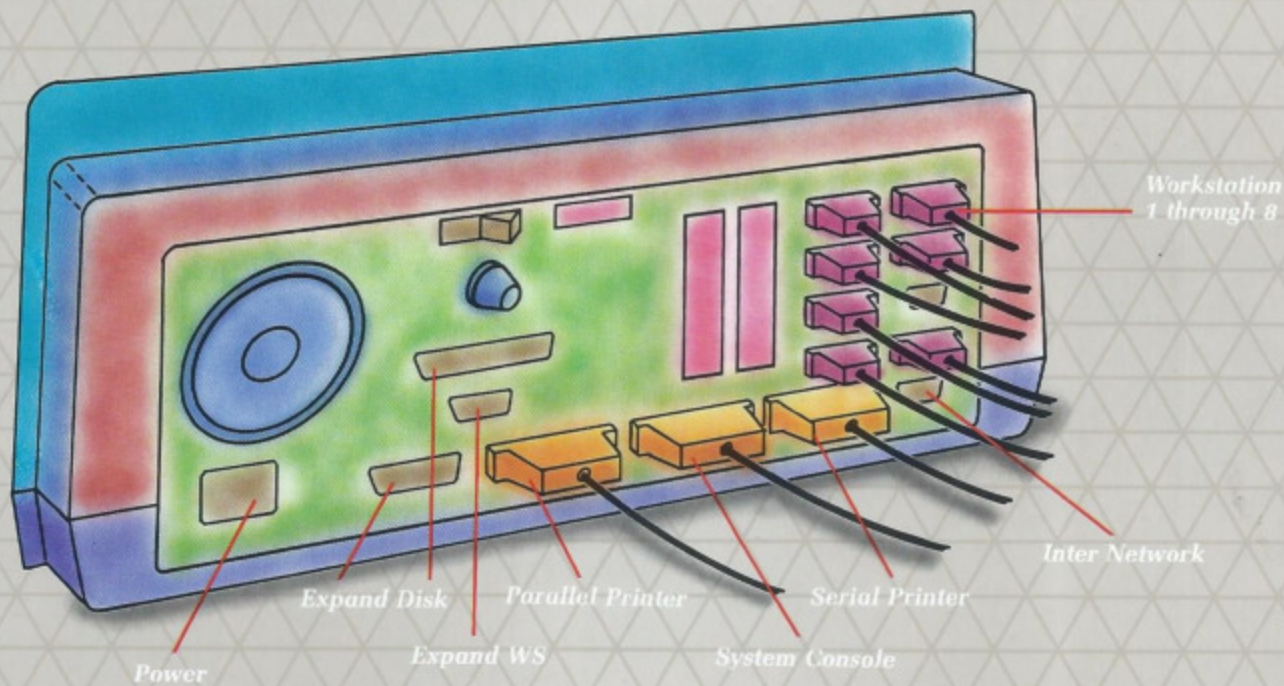
PM/4T

The PM/4T allows you to start out small and grow quickly by supporting 4 users with 21 megabytes of hard disk storage. This is the perfect system if you're the owner of a small business or the manager of a small department. You know that you need to connect your personal computers, but you're not sure how much or how fast your business will grow. By setting up a cost-effective

time comes, you can expand your system even further so that it supports up to 16 users and 89 megabytes of hard disk storage.

The PM/4T and PM/16T have been designed to meet your business needs. No matter which one you select, you can't go wrong.

Personal Mini Rear Panel



activity. TeleVideo offers two models, the PM/4T and the PM/16T. Both models support

- Dual microprocessors for high performance
- Hard disk storage—a central shared resource
- Floppy drive—for application software interchange
- Integral tape backup—for high-speed data backup
- Two central printers—for sharing printers

PM/4T, you do not buy expensive equipment that you may never use down the road. You will buy equipment that you will use **today**. And, if your business grows faster than you expected, the PM/4T can be expanded to support up to 12 users and 65 megabytes of hard disk storage.

PM 16/T

For larger office or department needs, start out with the PM/16T. The PM/16T supports up to 8 users with a 44.5 megabytes of hard disk storage. When the

InfoShare—The Intelligence Behind The Personal Mini

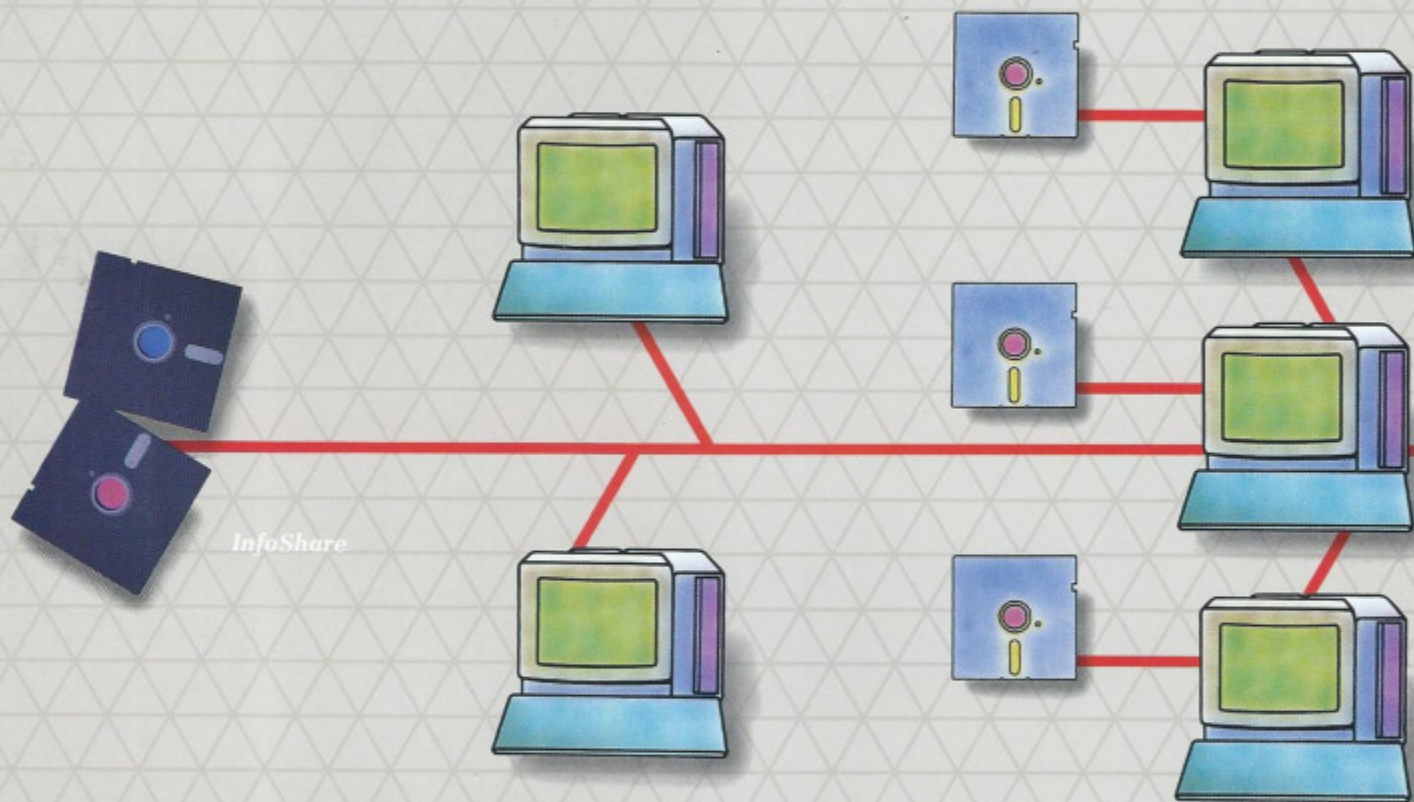
Operating inside the PM/4T and PM/16T, the advanced InfoShare operating system gives the Personal Mini its powerful capabilities. Users can easily share PC DOS applications programs stored on the Personal Mini hard disk without having to divide the disk into restricting partitions. Sophisticated multi-user software that ensures data integrity can be run by users. Expensive peripherals, such as laser printers, can

be shared by all users connected to the Personal Mini.

Easy to Use

InfoShare's design makes your transition into the Personal Mini world as simple and easy as possible. Your employees do not need to learn a new operating system in order to use their PC workstation; they continue to use the one they're used to. This also applies to the software they have been using.

Learning to use InfoShare is a different experience for each user. Some users only need the basics, while others need to know details because they may be responsible for maintaining the system or writing programs for it. TeleVideo has developed excellent documentation for each type of user: the general user, the system supervisor, and the programmer/technician. The manuals are clear, complete, and easy to understand.



Sharing Files and Programs Simultaneously

"InfoShare works superbly."

PC Business World, February, 1985

"Software security looks top notch . . ."

PC Business World, February, 1985

In addition to the Personal Mini documentation, simple, self-explanatory commands, coupled with a comprehensive, on-line help facility (with more than 130 help screens) make InfoShare easy to learn and easy to use.

Multi-User Capabilities

InfoShare's extended multi-user capabilities come into play when users run true multi-user packages (such as an account-

ing, data base management, or inventory control package). With these programs, Personal Mini users can simultaneously update different parts of the same file and keep file information up to date at all times (through record- and file-locking mechanisms).

Confidential files are protected so that only authorized persons have access to them. Files on the hard disk can be backed up with a simple utility program. Print spooling, the process that allows users to share the Personal Mini printers,

can be controlled so that files are printed in different ways and at different times.

System Security

InfoShare contains **four** levels of data security. These security levels protect data from unauthorized users and from accidental corruption.

No Disk Partitioning

Disk storage is dynamically allocated by InfoShare, and therefore disk partition-

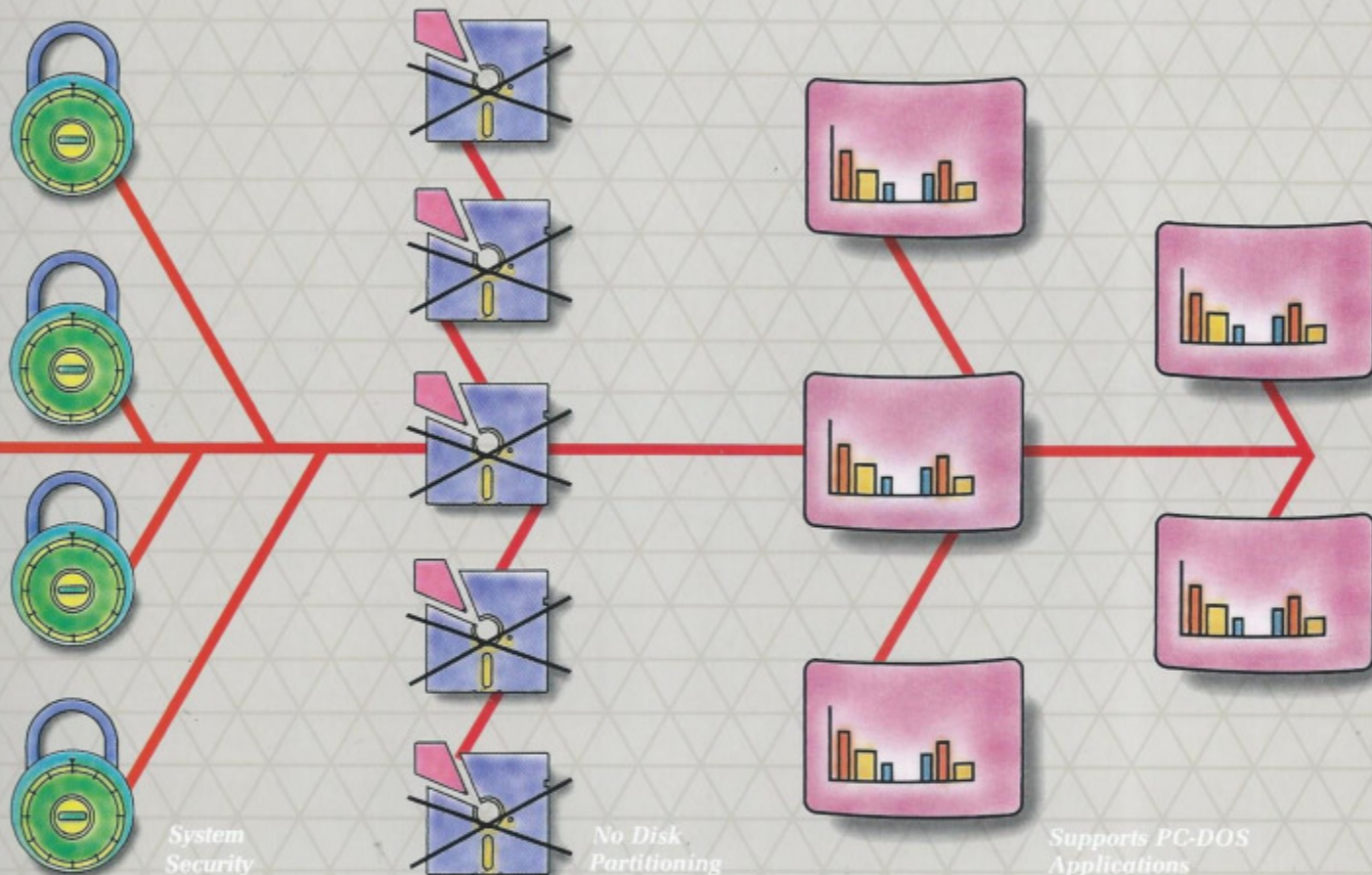
ing is not required. This feature greatly aids your system manager because he does not have to "forecast" disk requirements for each user.

ing is not required. This feature greatly aids your system manager because he does not have to "forecast" disk requirements for each user.

Supports PC DOS

Because InfoShare supports PC DOS, there are thousands of available single-user software packages that can run on the Personal Mini immediately! Operators who have been using PC DOS applications do not have to relearn new software; they can continue using the applications they are familiar with. Users will find InfoShare extremely easy

to learn because it is an extension of an operating system they know well—PC DOS. PC DOS applications run in a "shared" mode on the Personal Mini. Only one copy of the software needs to be stored on the hard disk because everyone uses this one copy. This convenience saves disk storage space because users do not have to store their own copy of the same program.



ing, data base management, or inventory control package). With these programs, Personal Mini users can simultaneously update different parts of the same file and keep file information up to date at all times (through record- and file-locking mechanisms).

Confidential files are protected so that only authorized persons have access to them. Files on the hard disk can be backed up with a simple utility program. Print spooling, the process that allows users to share the Personal Mini printers,

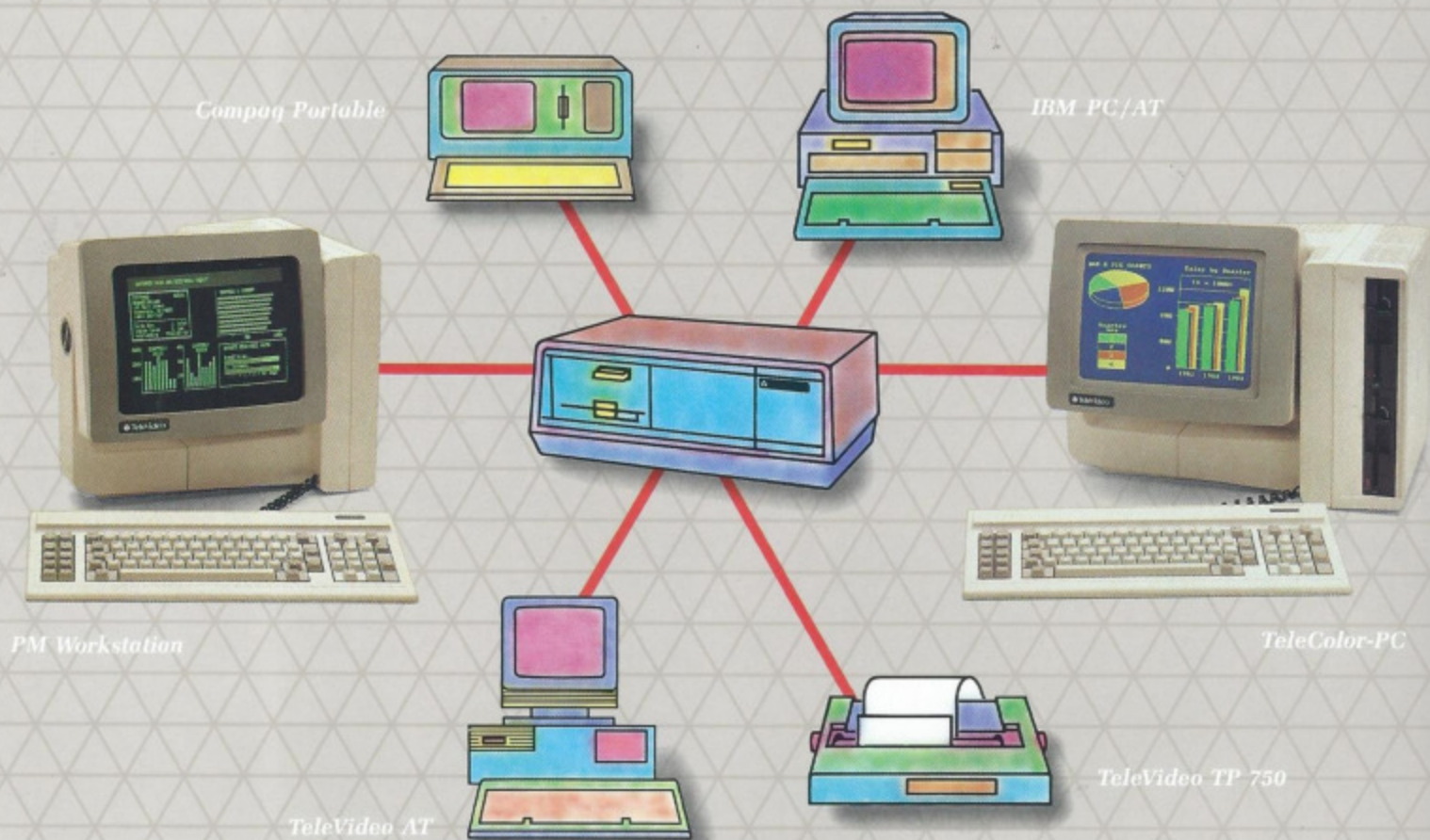
Personal Mini Workstations

Workstations for the Personal Mini can be an IBM PC/XT or PC-compatible computer. If you have existing personal computers, you can immediately connect them to the PM/4T or PM/16T and use them as Personal Mini workstations. As an alternative, you can choose workstations from TeleVideo's complete line of PC compatibles.

TeleVideo's newest workstation is the TeleVideo AT. The TeleVideo AT offers advanced technology, flexibility, value, quality, and unsurpassed performance. It runs 30% faster than the IBM PC/AT!

The TeleVideo AT and the other TeleVideo workstations offer complete software and hardware IBM compatibility. All workstations come

in a stylish, integrated package with many standard features that are ordinarily options on similar products. They are all configured with a minimum of 256K RAM, 9-inch to 14-inch monitors, an RS-232C serial port, a parallel printer port, a composite video port, and one bus slot that is fully compatible with IBM PC-format add-on boards. All workstations*



"The Personal Mini's strength lies in unifying offices that already have four or five PCs. Install the Mini, and you not only upgrade all of the PCs to having a fixed disk, but you also get a network as a bonus. Software sharing is easy; all your standalone applications still work, and everyone can use one fancy printer."

PC Business World, February, 1985

have local hard disk drives or floppy drives. Currently, TeleVideo offers the following workstations:

- **NEW! TeleVideo AT**
- **Tele-PC PLUS**
Single /Dual-Floppy Desktop
- **Tele-XT PLUS**
Hard-Disk Desktop
- **TeleColor-PC**
Dual-Floppy Color Desktop
- **TeleColor-XT**
Hard-Disk Color Desktop

- **TPC II**
Dual-Floppy Portable
- **PM Workstation**
Diskless Desktop

Connecting the Workstations to the File Server With the PM Interface

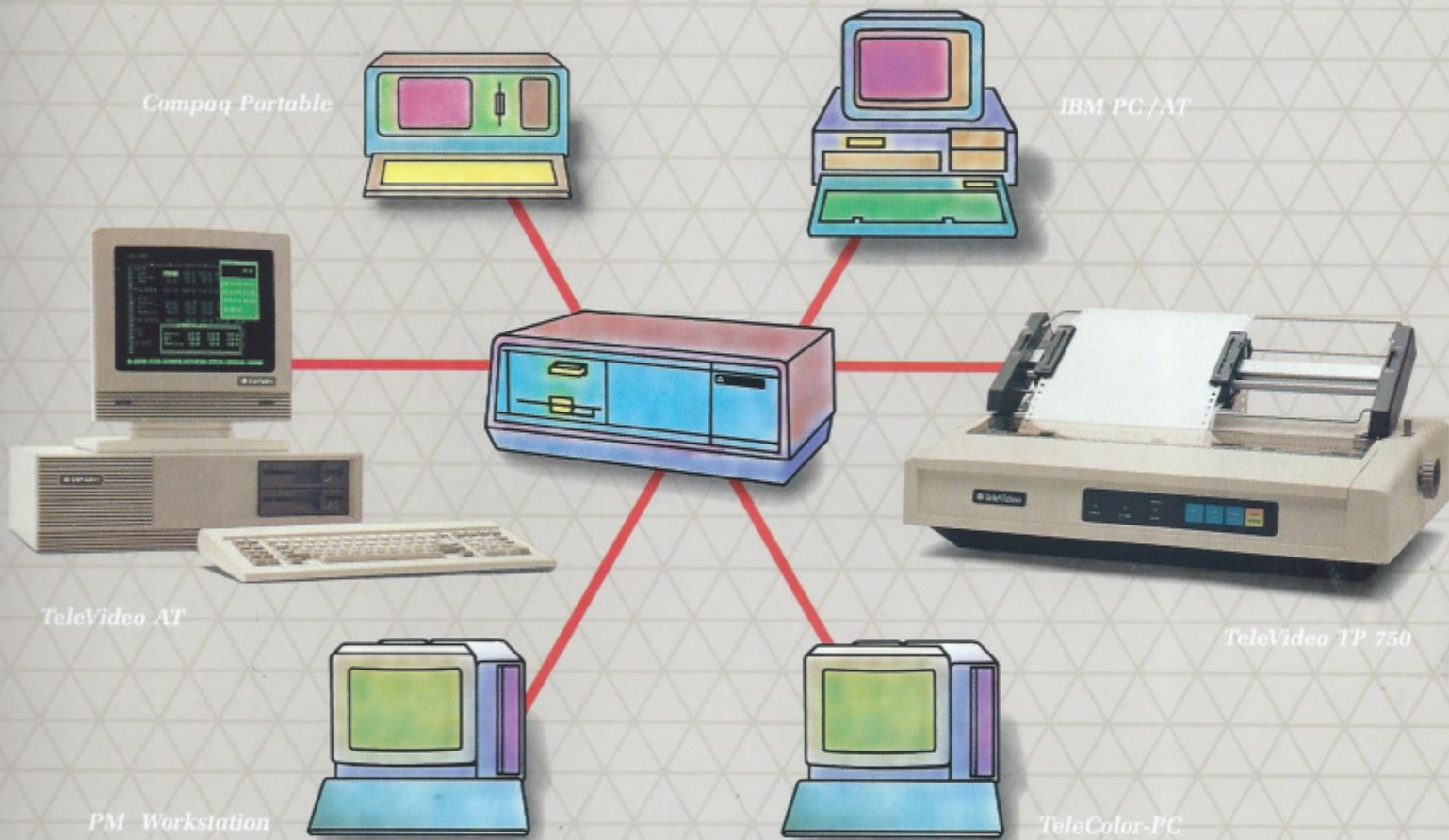
All workstations, whether made by TeleVideo or another personal computer manufacturer, connect to the Personal Mini with the **PM Interface**. The PM

The PM Interface /256 increases the workstation's on-line RAM to 512 kilobytes—a definite advantage when locally running applications that require additional memory.

Both PM Interface models are easy to install and low in price. With the PM Interface, a workstation can be located up to 1000 feet away from the Personal Mini file server with a shielded cable. With

low price. Performing at 50 characters-per-second, the TP 750 contains 40% fewer parts than other comparable printers. Forty percent fewer parts translates to more reliability, a smaller footprint, and a lower price.

The TP 750 features quick printwheel replacement, quiet operation, speed, and unsurpassed print quality. Additional TP 750 features include proportional



Interface is an IBM PC bus-compatible card that plugs into an option slot inside the workstation. Once installed in the workstation, the PM Interface provides the physical connection between the workstation and the file server. The only thing needed to complete the connection is an RS-422 cable.

The PM Interface comes in two models: the standard PM Interface and the PM Interface /256. The PM Interface /256 has an additional 256 kilobytes of RAM.

the use of two fiber optics modems**, the workstation can be up to 6000 feet away and function as if it were right next door!

**Personal Mini Printer—
The TeleVideo TP 750**

For the letter quality printer that completes your Personal Mini network, TeleVideo offers the TP 750. This printer, the result of advanced engineering and manufacturing techniques, provides superior performance and features at a

spacing, graphics and program modes, word processing print capabilities, and Diablo 630 API command set compatibility. The design simplicity of the printer makes it sophisticated, dependable, and easy to service. A full complement of paper handling accessories are available, from a bidirectional forms tractor to a dual bin sheet feeder with envelope capability.

*Except the PM Workstation
**From Optical Data Systems, Inc.

Software for the Personal Mini

PM/Mail Monitor—The Personal Mini Electronic Mail System

Improved business communication, increased efficiency, and faster service is what TeleVideo's PM/Mail Monitor* is all about. An electronic mail system for the Personal Mini, PM/Mail Monitor allows you to send messages and data to other people on your Personal Mini network, to people on remote Personal Mini networks, or to users of remote single-

user personal computers. PM/Mail Monitor gives you immediate access to everyone on the Personal Mini network.

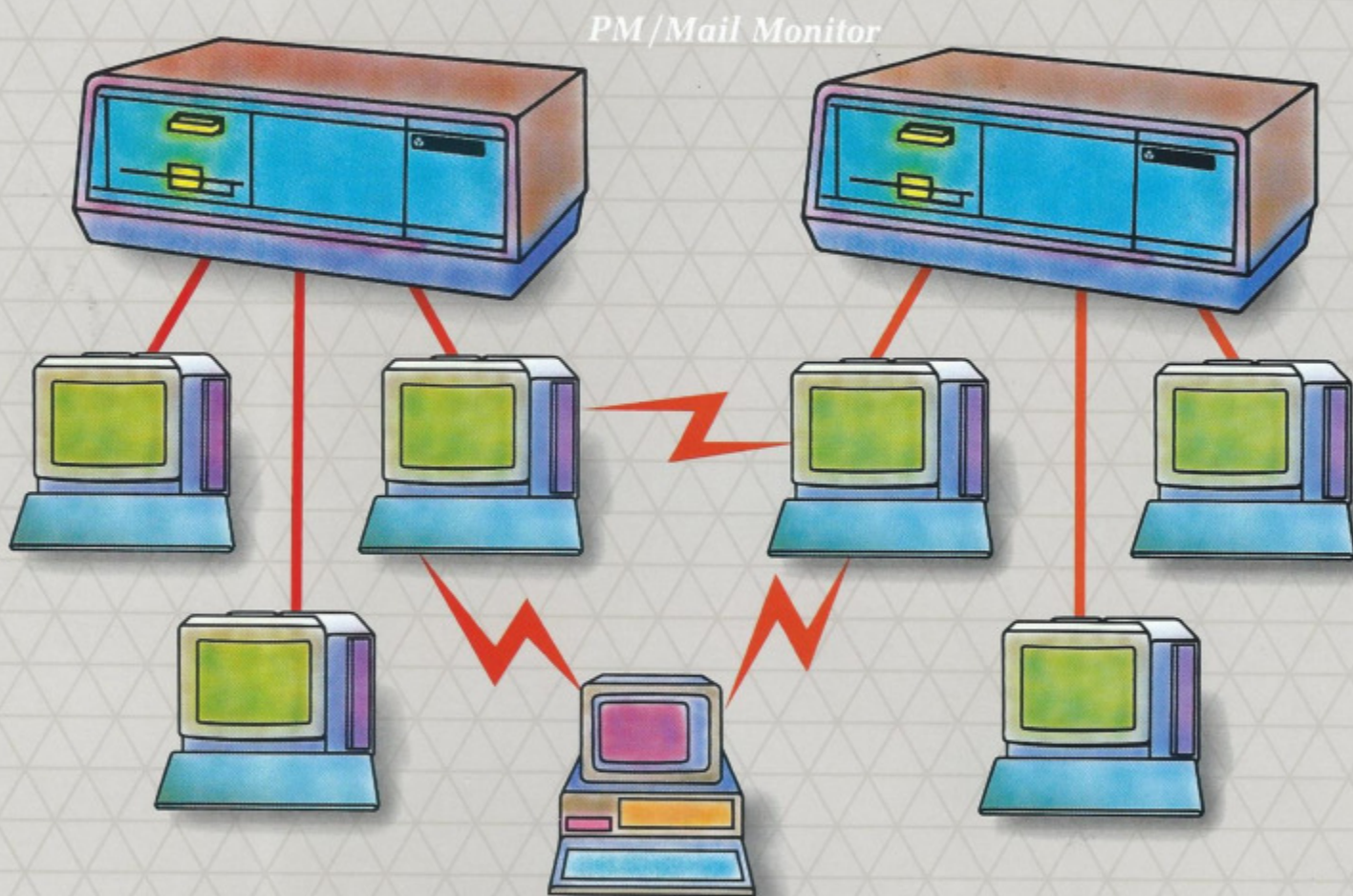
PM/Mail Monitor features include an editor for message preparation, automatic message distribution, distribution lists, reply to messages, and message security.

PM/Mail Monitor reduces "information float." Telephone tag is ended, phone calls are reduced, lost phone messages

are eliminated, and writing and sending memos is minimized when PM/Mail Monitor is used. In other words, PM/Mail Monitor takes you one step closer to the paperless, automated office.

RM/COBOL for InfoShare

RM/COBOL Runtime for InfoShare provides runtime support on the TeleVideo Personal Mini for multi-user software



"We have tested the network with a variety of software . . . most programs ran on the network without alteration. . . Some programs require some configuration. Most of the configuration was minor and required only a few minutes."

IBM PC Update, December 1984

developed under Ryan-McFarland's RM/COBOL language.

Because the runtime is customized for the InfoShare file/record locking protocols, any multi-user RM/COBOL application is available to Personal Mini users, with little or no work required by developers. Currently, over 800 multi-user applications have been developed under the RM/COBOL language.

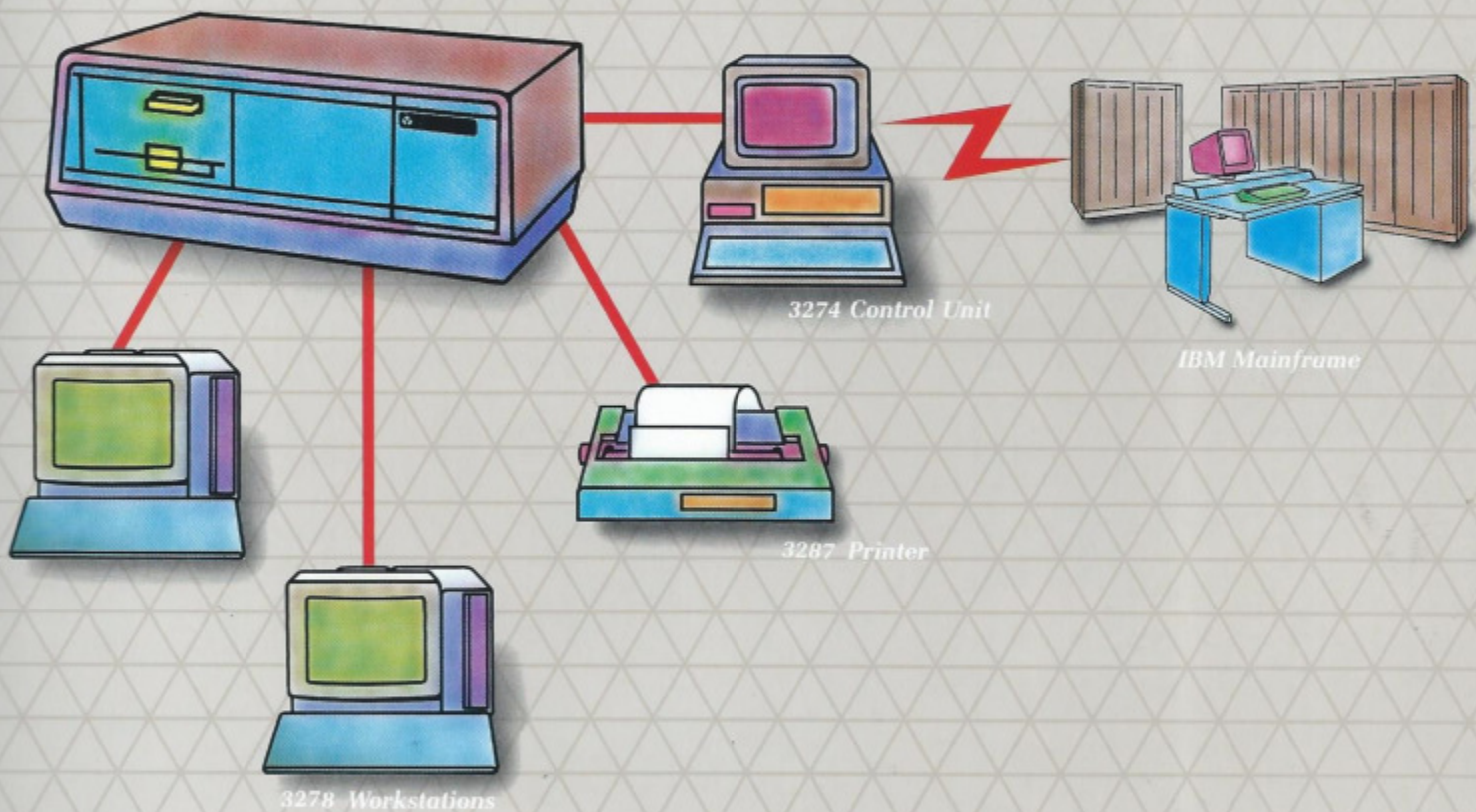
changing configuration parameters, transmitting and receiving data, and creating and executing job files.

Personal Mini CLEO-3274BSC & SNA

The CLEO-3274BSC and SNA emulation packages enable Personal Mini users to access thousands of IBM-mainframe applications and databases. Both packages are full function IBM 3274 emulators that can communicate with any IBM-compatible mainframe configured to

TeleAsync—TeleVideo's File Transfer and Terminal Emulator

TeleAsync*** is a communications software package that enables TeleVideo's personal computers to transfer disk files to and from other TeleVideo systems or other computer systems that support the BLAST protocol, such as DEC, Data General, and Hewlett-Packard minicomputers. It also provides terminal emulation for communication with any on-line



For Communicating With Mainframes . . .

Personal Mini CLEO-3780**

The CLEO-3780 software package enables the Personal Mini to transmit and receive files from an IBM mainframe, or any other computer system, that supports the IBM 3780 or 2780 bisynchronous protocol. Files can be transmitted or received interactively or by executing a job file on disk without further operator intervention. Data rates up to 9600 bits per second are supported. A menu of commands eases operator interface for

support remote IBM 3274 emulation. Personal Mini users can easily switch to the 3278 terminal emulation mode and then back to applications. CLEO-3274BSC and SNA provide the Personal Mini-to-mainframe link. One personal computer is used as the 3274 cluster controller. Up to 16 workstations can concurrently access the mainframe.

timesharing system such as CompuServe and The Source. These systems open up a wide range of finance, news, and business services for your office. For user convenience, TeleAsync is menu-driven.

*PM/Mail Monitor is an OEM version of LAN:Mail Monitor © Software Connections, 1983, 1984, 1985.

**Developed by CLEO Software, a division of Phone 1, Inc., for the TeleVideo Personal Mini.

***TeleAsync is an OEM version of BLAST, © Communications Research Group, 1983.

The Personal Mini Growth Path

Nothing is ever obsolete and there's always a way to increase resources—this is the Personal Mini growth path. You start the system off with your individual personal computers and printers, add a Personal Mini file server, connect all the hardware, and you're on your way. When it comes time to add workstations, printers, disk storage, or memory, TeleVideo accommodates these needs. We supply it all.

Grow with the Personal Mini

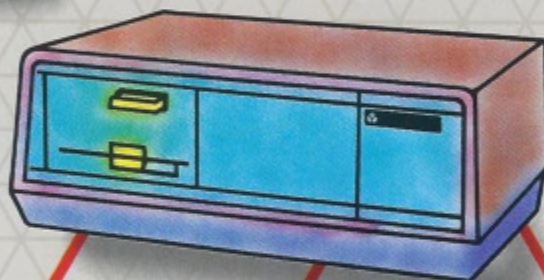
First, start off with a small system that combines your old computers with new Personal Mini hardware. For example, you could begin with a PM/4T and TP 750 printer and then connect your personal computers.

Once you decide to add more users to the system, you could invest in a couple of economical, high-powered workstations, like the PM Workstation.

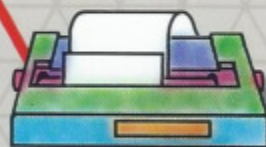
When this system configuration stops meeting your needs, you can grow into a much larger, but not fully expanded system. For example, you could add a PM Expansion unit (allowing you to add eight more users), more workstations, and another TP 750 printer to accommodate everyone.



Your Current Personal Computers



Add the PM/4T and TP 750



"This network was one of the easiest to install and was very reliable once it was operating. We found no instances of file corruption or other system trouble. Once the system was installed, it did not require reinstallation as did several other of the networks evaluated in this study. We give it high marks for reliability."

PC Magazine, February 5, 1985

This is not the end of the growth path. Larger file servers, extra memory, and communications software that connects remote Personal Mini users are also available.

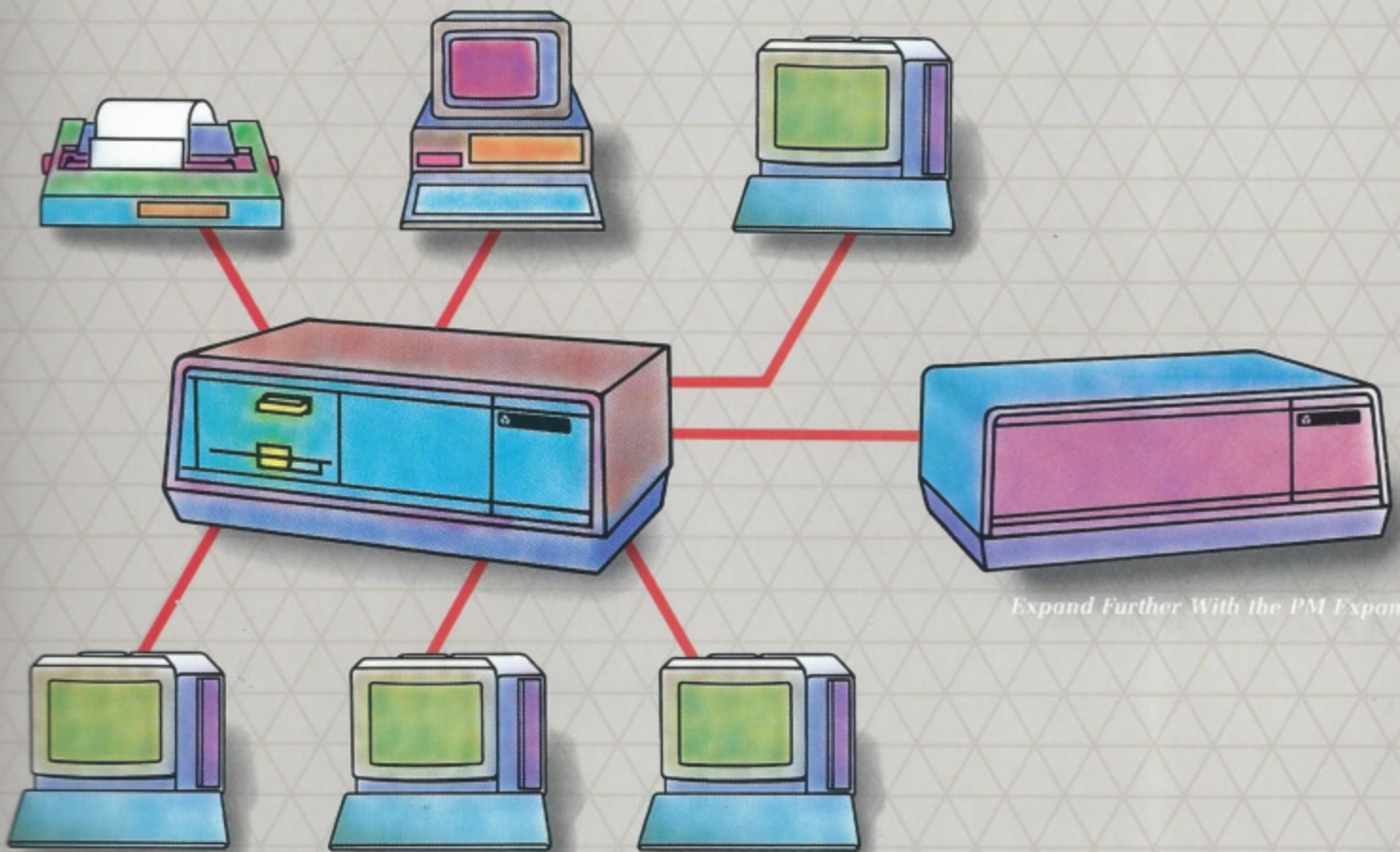
Personal Mini Support

Training

No matter what level Personal Mini user you are, novice, supervisor, or technician, you can learn to use the Personal Mini at your own pace with the **Personal Mini Training Series** video tapes. These tapes allow you to learn how to use the Personal Mini on your own time and at your own business location. The tapes can also be used as reference material and to train new employees. With the

- More than 1,000 multi-user applications—many which have been running on minicomputers for many years
- Multi-user languages (i.e., RM/COBOL, PCBus, Business Basic) and data base management systems (i.e., DataFlex, Revelation, Informa)
- Network applications such as electronic mail and word processing

spreadsheet and word processing programs (for individual productivity) and a multi-user accounting package (for integrated group productivity), you have built one powerful Personal Mini system!



Expand Further With the PM Expansion

Add Cost-Effective PM Workstations

video tapes, you save money and time because new employees do not have to be trained by current employees nor do you need to spend extra money to have them trained by a third party.

Third-Party Software and Add-On Hardware For the Personal Mini

The following types of products are available from third parties TODAY for the Personal Mini:

- More than 4,000 single-user PC-DOS applications

- Industry-specific vertical market applications (i.e., accounting, legal, manufacturing, medical, government, agriculture, and personnel management)

When you combine these different types of software products with the Personal Mini family, you build a versatile, comprehensive system allowing for group and individual productivity and integrated group productivity. For example, if you combined

an electronic mail package (for group productivity) with

Support for Third-Party Developers—the TeleVIP Program

To facilitate the development of Personal Mini applications by third-party companies and end users, TeleVideo has set up a third-party vendor program called TeleVideo Vendors In Partnership (TeleVIP). The TeleVIP program offers many benefits for software professionals who are interested in developing or porting applications to the Personal Mini. If you are interested in participating in this program, call TeleVideo today.

How Does the Personal Mini Family Compare to UNIX and Other Networks? Very Well!

Personal Mini vs. UNIX

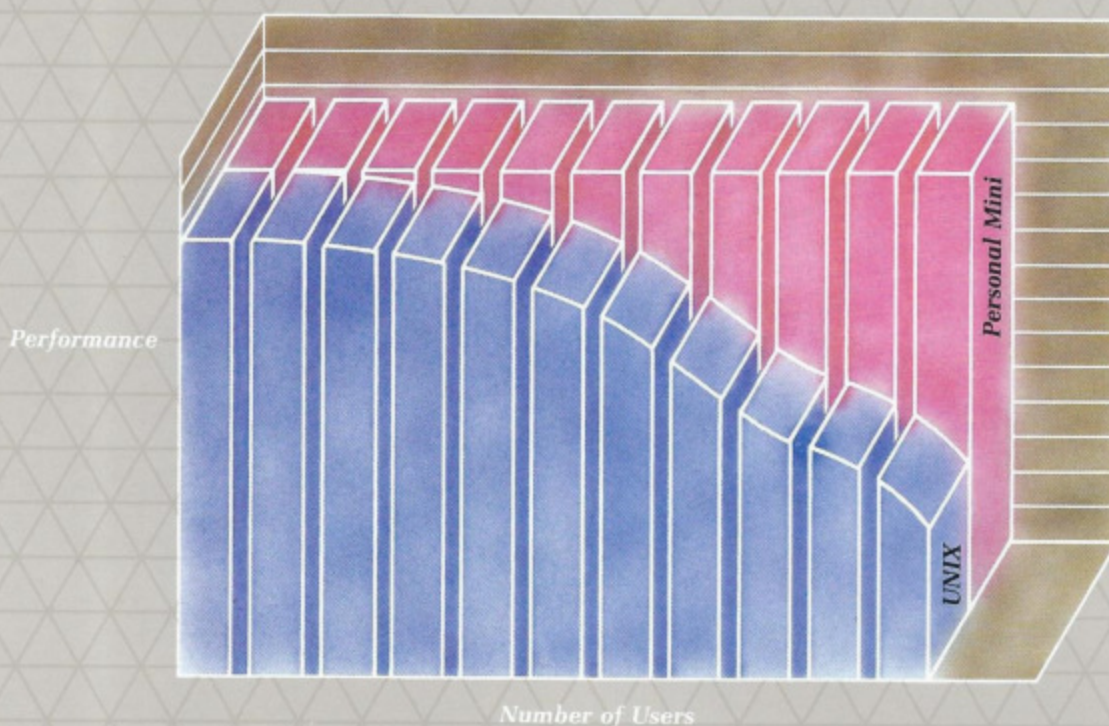
Personal Mini features outweigh UNIX features tenfold. Two of the biggest advantages the Personal Mini has over a UNIX system are as follows:

1. You can turn your personal computers into powerful workstations in the Personal Mini environment. With UNIX, you reduce a \$3,000 PC investment into a \$700 terminal.

When you turn your personal computers into Personal Mini workstations, you can run all the popular PC DOS applications programs (Lotus, MultiMate, Framework, Symphony, etc.). These applications are not available under UNIX. The software available for UNIX multi-user systems is more expensive than the software that runs on the Personal Mini. And, PC-DOS software is easier

to use than UNIX software because PC users are assumed to be novices whereas UNIX users are assumed to be more advanced.

On the hardware side, Personal Mini workstations can make use of the add-on hardware available for personal computers. Printers, storage media, and communications devices can be connected into a reliable, high performance configuration. UNIX



“The network software [InfoShare] offers a wide range of features that allow a simple or very complex file structure. The system can accommodate a wide range of use . . . [InfoShare] parallels the file structure and commands of UNIX.”

Business Computer Systems, February 1985

workstations are not this flexible; the amount of add-on hardware they can connect with is limited.

2. The Personal Mini is based on a distributed processing design versus UNIX's shared processing architecture.

The Personal Mini design is more reliable and more tolerant of unexpected problems. If the file server goes down, the rest of the network is

Personal Mini Versus Other PC Networks

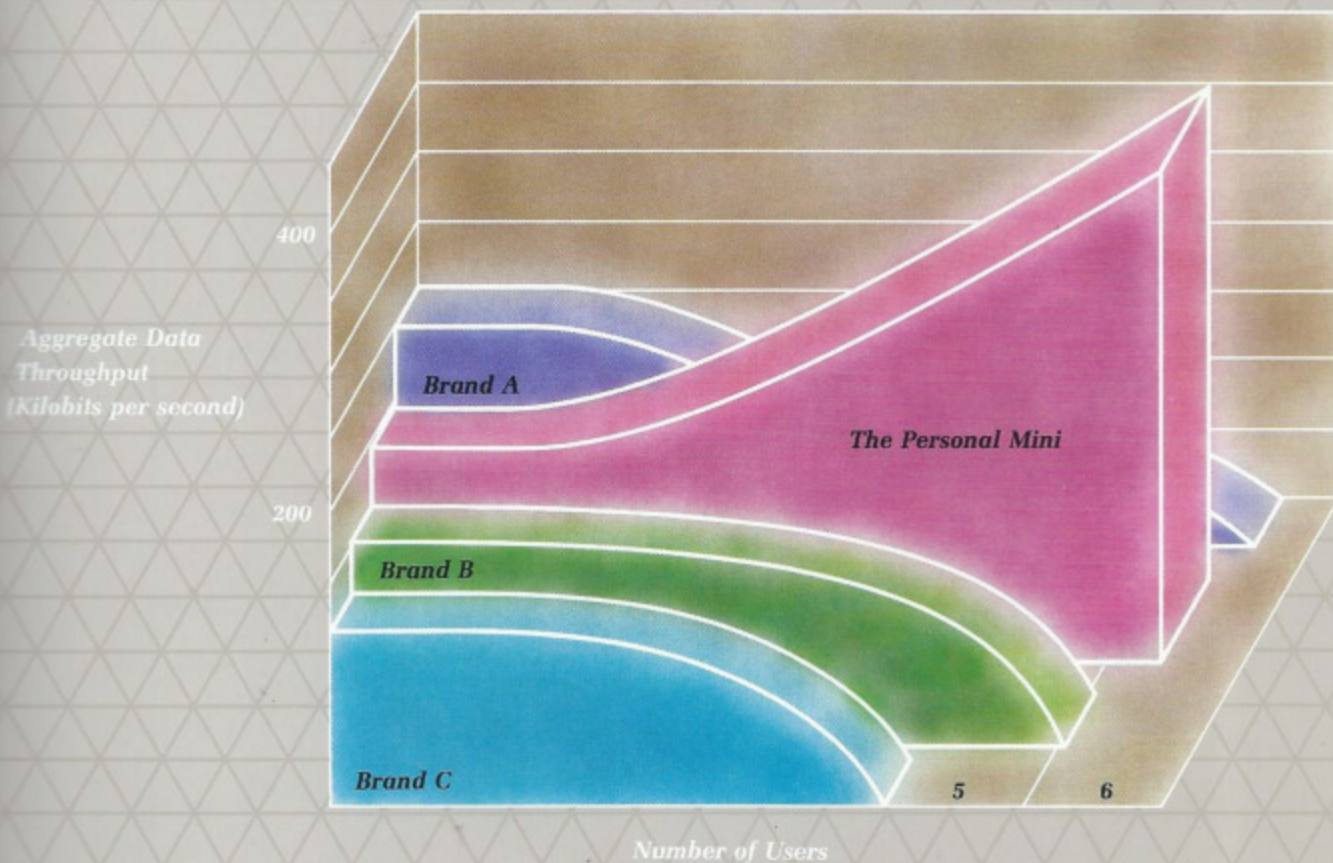
Comparing the Personal Mini to other PC networks can best be done by discussing Personal Mini general features and benefits. When and if you investigate different networks, you can see how **they** add up to the Personal Mini.

High Performance

To begin with, the Personal Mini's high-performance architecture can really be

Advanced Operating System

InfoShare is a full-functioning operating system with extensive system security, sophisticated print spooling, and PC-DOS and true multi-user application compatibility. Few, if any, network operating systems can say the same!



unaffected. The workstations can operate as stand-alone personal computers. With UNIX, the entire system is affected and inoperable.

With distributed processing, the Personal Mini file server's performance is **increased, not decreased**, when more workstations are added. With a UNIX system, more workstations means lower performance.

You make a lower initial investment with the Personal Mini because you buy hardware as you need it. With UNIX, you buy a large system hoping someday to grow into it.

seen in the fast screen updates and fast program loads. Nothing compares!

Everything Available from One Source—TeleVideo

When everything is available from one supplier, the system components are much easier to order and service.

Advanced File Server Environment

Dynamic disk allocation, easier file sharing, easier multi-user application development and better file protection are all part of the Personal Mini file servers.

Make Your Own Comparison— See The Personal Mini Today!

Throughout this brochure, you have read how the Personal Mini family of products is the solution for productivity-conscious business people. TeleVideo invites you to see the Personal Mini family and the capabilities we have discussed. Call our toll free number now for a product demonstration TODAY!

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(800) 521-4897 (outside California)

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