F E A T U R E S

- ▲ Support for up to six users in a desk top system.

- ▲ Intel 80286-based system operating at 7.5 MHz with no wait states.

- ▲ Industry standard XENIX® operating system.

- ▲ 512 KB RAM expandable to 2.5 MB.

- ▲ Choice of 25 MB or 50 MB (unformatted) of internal mass storage.

- ▲ Up to 130 MB (unformatted) of mass storage with an 80 MB expansion enclosure.

- ▲ Integral 1.6 MB Floppy Disk Drive.

- ▲ Intelligent Z-80-based I/O processor supporting 6 serial I/O ports.

- ▲ Support for Mainframe communications.

- ▲ Optional 60 MB 1/4 inch Streaming Tape Drive for 50 MB Hard Disk Model.

- ▲ Optional 80188 based WorkNet LAN Board.

- ▲ Optional Floating Point Co-Processor.

- ▲ Binary Code compatible with other Altos 80286-based systems.

- ▲ Applications compatible with other Altos 80286-based systems.

- ▲ Applications compatible with most IBM PC/AT software under XENIX.

▲ The Altos 686 offers support for up to six users in a compact desktop computer. A powerful Intel 80286 microprocessor operating at 7.5 MHz with no wait states provides superior performance for a variety of business applications at a very low cost per user price.

The Altos 686 system features a variety of memory and mass storage options and is available in three models. These options provide a product range from an attractive, low cost, entry level system to a feature-packed, high capacity multi-user system.

▲ Performance

In addition to the powerful Intel 80286-based CPU, a Z-80 I/O processor further enhances performance by offloading the I/O processing from the CPU. This allows the Altos 686 to support up to 5 users plus a printer, with its six I/O ports.

Expandability

All models include 512 KB of RAM and may be expanded up to 2.5 MB with 1 MB RAM Expansion Boards. Disk capacity may be increased with the use of an 80 MB Disk Drive Expansion Enclosure. An optional integral 60 MB (unformatted) quarter inch Streaming Tape Drive is available for the Altos 686 model with an integral 50 MB (unformatted) Hard Disk. The addition of the 80188-based WorkNet LAN Board allows access to the Altos WorkNet™ LAN network while including an extra serial port to support a 6th user on the Altos 686.

▲ Configuration Summary

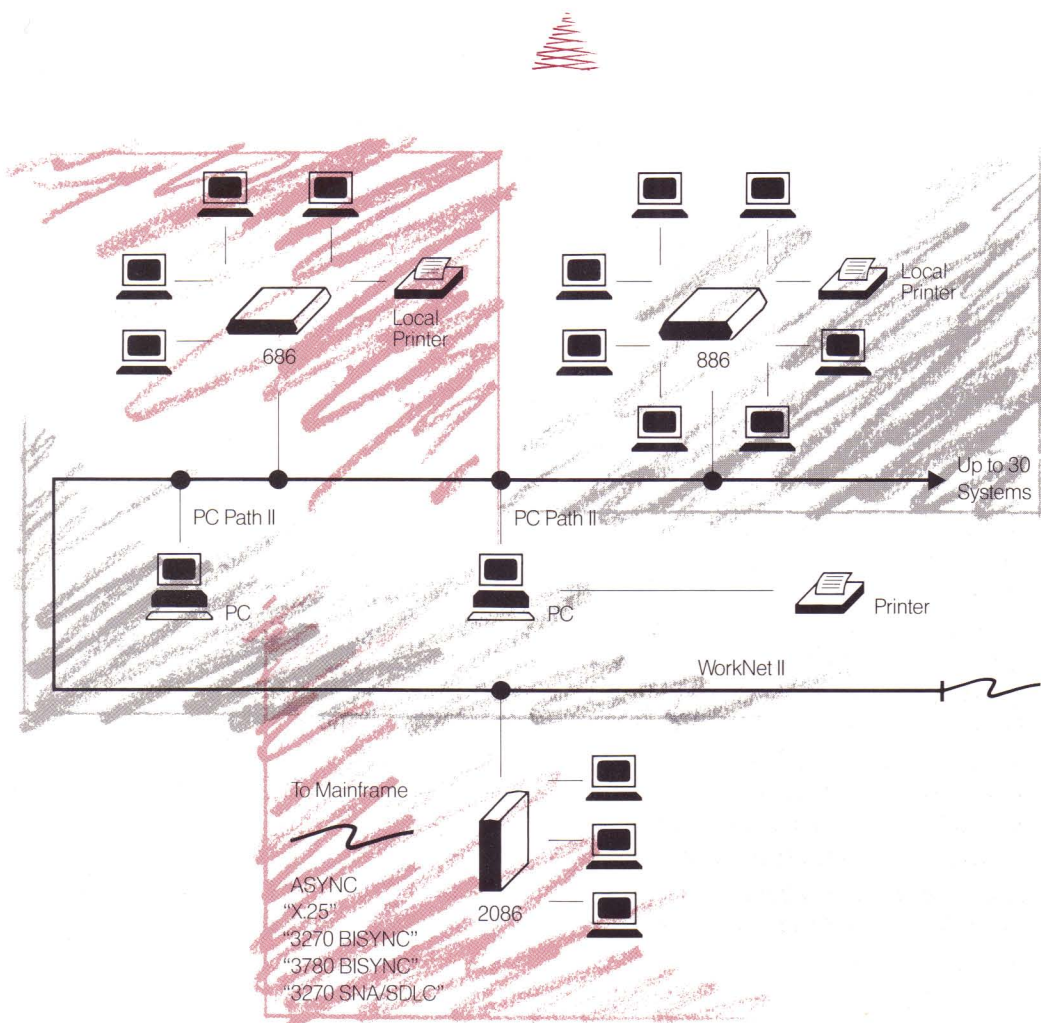| Model	I/O Ports	RAM	Disks	Tape
686-25	6	512 KB	25 MB (unformatted) Winchester 1.6 MB Floppy	NONE
686-50	6	512 KB	50 MB (unformatted) Winchester 1.6 MB Floppy	Optional*
686-T50	6	512 KB	50 MB (unformatted) Winchester 1.6 MB Floppy	1/4" 60 MB Streaming

*Must be installed at order time or system must be returned to Altos Service Center for installation (fee).

▲ Compatibility

The Altos 686 is compatible with the other members of Altos' 80286-based computer systems. This compatibility extends to Binary Code, Source Code, Media, Data, Networking, and Applications software, thus offering the benefits of a true family of products. The Altos 686 is also compatible with most IBM PC/AT software running under the XENIX operating system and can read and write IBM PC/AT diskettes.

▲ Software

The system runs XENIX 3.0, an enhanced version of UNIX™ System III. Two modules are available: XENIX Run Time and XENIX Development System. A complete range of languages such as C, Pascal, Fortran, Cobol, and Basic are also available.

686

Local
Printer

886

Local
Printer

Up to 30
Systems

PC Path II

PC Path II

PC

PC

Printer

WorkNet II

To Mainframe

ASYNC
"X.25"
"3270 BISYNC"
"3780 BISYNC"
"3270 SNA/SDLC"

2086

▲ Communications

The Altos 686 supports a wide variety of communications software products. While the system can stand alone as a multi-user computer, with the optional WorkNet Communications Board, it can become a node within the Altos WorkNet LAN. It can also become a file server for users of MS-DOS through an enhanced version of WorkNet called, Altos PC Path.™ For Mainframe communications, 3270 BSC and 3780 BSC support is offered. The Altos 686 can also access remote databases and timesharing systems through standard modems.

S P E C I F I C A T I O N S

▲ **Microprocessor**

CPU	80286
Data/Instruction Word Size	16-bit
Bus Size	16-bit
Clock Frequency	7.5 Megahertz
	No Wait States
Optional Floating Point Processor	80287

▲ **RAM Memory**

Configured	512 KB
Maximum	2.5 MB

▲ **I/O Control**

Asynchronous Serial Ports	6
Terminal Processor	Z80A
Maximum Terminal Speed	19.2 KB

▲ **Hard Disk**

Configured number of drives	1
Maximum Number of Drives	2
Physical Size	5¼ inch
Unformatted/Formatted Capacity	25 MB/20 MB
	50 MB/40 MB
	80 MB/63 MB – external

▲ **Floppy Disk**

Number of Drives	1
Capacity	1.6 MB
Physical Size	5¼ inch

▲ **Optional Tape Drive**

Number of Drives	1
Physical Size	5¼ inch
Capacity	60 MB
Tape Speed	90 inches/second
Backup Time, 60 MB	20 minutes

▲ **Optional WorkNet Board**

Number of SIO ports	1
WorkNet Port	1
Communication Processor	80188
WorkNet Transmission Speeds	1.4 and 0.7 Megabits/second

▲ **Physical Characteristics**

Width	17"
Height	6"
Depth	18"
Weight	36"

▲ **Environmental and Safety Standards**

Meets FCC Docket 20780 class A requirements. Conforms to IEC 380 standard VDE 871 class A. UL, CSA and TÜV (VDE 806) approved.

Operating Temperature Range	60-90° F
	15-32° C
Relative Humidity Range (noncondensing)	20-80%
Power Dissipation	500 Watts

▲ **Software Availability**

Since the Altos 686 runs XENIX 3.0, users can avail themselves of the increasing library of applications offered for XENIX on the market today. Additionally, users can purchase directly from Altos many vertical applications, office productivity software, and industry standard languages such as Cobol, Fortran, Basic, and others.

▲ **Ordering Information**

Each System is configured with 512 KB RAM, six RS-232 ports, hard disk, floppy drive, Altos IV terminal and terminal cable. Operating system sold separately. Please contact your Altos Reseller to order the Altos 686 or other related products.

▲ **Documentation**

Altos 686 Owner's Manual

▲ **Warranty**

This Altos product carries a 90-day limited warranty.