



FEATURES

- ▲ Powerful multi-user system supporting up to 20 users
- ▲ Intel 80286 microprocessor operating at 8 MHz, with zero wait states out of cache
- ▲ 4 KB instruction and data cache memory
- ▲ Up to 8 MB RAM
- ▲ Up to 570 MB of internal mass storage with three 5.25 inch 190 MB hard disk drives
- ▲ Integral 60 MB $\frac{1}{4}$ " streaming tape drive
- ▲ Integral 1.6 MB Floppy disk drive
- ▲ Intel 8086-based file processor subsystem operating at 8 MHz
- ▲ Optional 80287 Floating Point co-processor
- ▲ Industry standard XENIX® operating system
- ▲ Wide range of communications support including LAN, Async, Bisync, SNA and X.25 protocols
- ▲ Wide range of applications and languages available



O V E R V I E W

▲ For modern business requirements.

Altos has provided the modern business solution....The Altos 1086/2086 super-microcomputer series.

▲ Truly flexible supermicrocomputers, the Altos 1086 and 2086 offer 10 or 20 user support in a modular, user configurable design. Based on the Intel 80286 microprocessor, the system offers outstanding performance. Performance is further enhanced by a customized memory management unit, a 4 KB CPU cache, high capacity disk drives, and multiple microprocessors. Additionally, this floor standing system has 8 board slots for flexible system configurations.

The Altos 1086 and 2086 is ideally suited to provide a wide range of solutions in both office automation and commercial environments. These systems also have the ability to read and write IBM PC/AT diskettes, allowing them to run most software written for the PC/AT under XENIX®.

H A R D W A R E

▲ *Main Processor*

The system is based upon an 8 megahertz Intel 80286 microprocessor running with no wait states out of cache. The 4 kilobyte static RAM Cache provides system performance not usually found in a machine of this class. The CPU is supported by a 32-bit data bus for quick data transfers from system RAM. The CPU board contains a calendar clock with battery backup. And optional 80287 floating point processor chip is available. Under Xenix, the system will support user programs of up to one megabyte.

▲ *Memory*

Standard memory in the Altos 1086 and 2086 are 1 MB and 2 MB respectively. With the open design of the system, users can configure RAM boards according to their own needs, and modify their configuration as necessary. The system can be expanded up to 8 megabytes in increments of 1 MB, 2 MB or 4 MB.

▲ *File Processor Subsystem*

At the heart of the system is a two-board File Processor Subsystem: one board contains storage device controllers; the other board contains an 8086 microprocessor to control file accessing. The microprocessor controls four DMA channels, one each for disks, tape, floppy, and a parallel printer port. The file processor provides overlapped seeks on up to three disks for fast disk access.

▲ *Serial Communications Subsystem*

The user ports on the system are accommodated through a one or two board Serial Communication Subsystem. Each board includes an 8 MHz, 8086 microprocessor and ten serial ports. These ports default to RS-232 asynchronous and are physically connected through DB-9 connections. Up to two ports can support synchronous protocols, and another port can be software selected to operate Altos' Local Area Network, Worknet II.®

▲ *Data Storage*

The system offers outstanding flexible data storage features. Each system comes standard with a floppy diskette drive, a 60 megabyte streaming tape drive, and a fast, high density hard disk drive. Expansion hard disks are available in either 50 MB, 80 MB or 190 MB (unformatted) capacities and are packaged complete with power supplies. As separate modules, they easily slip into the floor standing enclosure. The system will support up to three hard disk modules, for a total capacity of up to 570 MB (451 MB formatted).



▲ *Configuration Expandability*

The system was designed for simple, transparent expandability. Expansion slots are available for adding 1 MB, 2 MB or 4 MB memory boards, and/or expansion ports for additional users. Two additional hard disk drives can be accommodated within the system chassis for customized storage needs.

▲ *System Diagnostics*

To insure reliability, each system is shipped with User Diagnostics. This provides the user with a confidence test that the system is operational. For more detailed analysis, optional Field Service Diagnostics can be used by a trained service technician to diagnose system problems down to a Field Replaceable Unit (FRU). With optional Remote Diagnostics (available Fall 1986), the 1086/2086 system can be dialed up from a remote location and failures diagnosed down to the FRU level. This can significantly reduce system downtime while saving the expense of a field service call.

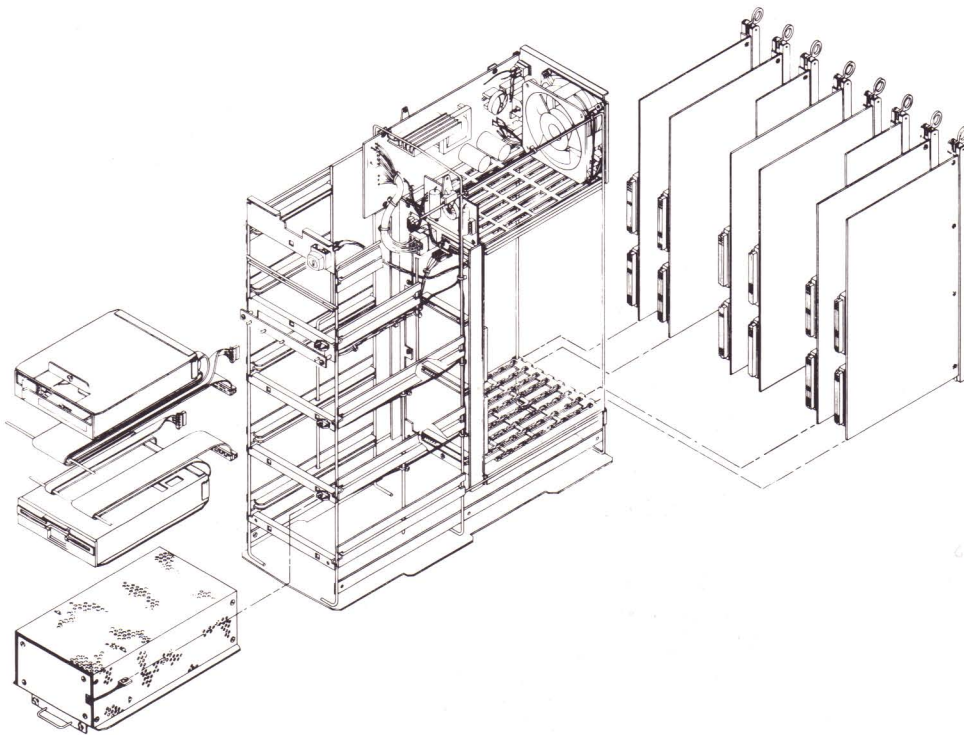
S O F T W A R E

▲ *Communications*

Each system is capable of supporting asynchronous modems for dial-up database services or offsite communication. Additionally, Altos WorkNet LAN is supported at 1.4 megabits per second or 0.7 megabits per second (for compatibility with earlier Altos products). Altos PC Path is also available to connect IBM PC's or compatibles to WorkNet. IBM 3270 Bisync, 3780 Bisync, and 3270 SNA/SDLC are supported for mainframe communications, while X.25 is supported for use with public data networks such as Tymnet and Telenet.

▲ *Software*

The system runs XENIX 3.0, an enhanced version of UNIX System III. The operating system software combined with a comprehensive set of application software solutions can effectively meet the demand of most commercial computing environments. A complete range of languages such as, C, BASIC, COBOL, FORTRAN and Pascal are also available.



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

▲ CPU Board		1086	2086
Main Processor		80286	80286
Clock Frequency		8 MHz	8 MHz
System Data Bus Size		32-bit	32-bit
Address Bus Size		24-bit	24-bit
Cache Size		4 KB	4 KB
Floating Point Processor		80287	80287
(optional)			
▲ Memory Configuration			
Minimum		1 MB	2 MB
Maximum		8 MB	8 MB
Board Sizes		1, 2, or 4 MB	1, 2, or 4 MB
▲ Serial Communications Subsystem			
Processors		8086	8086
Clock Frequency		8 MHz	12.5 MHz
Total Ports		10	20
Configurable Synchronous		2	4
Configurable Network Ports		1	1
▲ File Processor Subsystem			
Processor		8086	8086
Clock Frequency		8 MHz	8 MHz
Parallel Printer Port		1	1
Transfer Rate to RAM		1.5 MB/sec	1.5 MB/sec
DMA Channels		4	4
▲ Hard Disk			
Interface		ST-506	ST-506
Number of Drives		up to 3	up to 3
Physical Size		5¼ inch	5¼ inch
Unformatted/Formatted Capacity		50 MB/40 MB	50 MB/40 MB
		80 MB/63 MB	80 MB/63 MB
		190 MB/150 MB	190 MB/150 MB
Seek Time		30 millisecond	30 millisecond
▲ Floppy Disk			
Number of Drives		1	1
Physical Size		5¼ inch	5¼ inch
Unformatted/Formatted Capacity			
High Density		1.6 MB/1.2 MB	1.6 MB/1.2 MB
Low Density		1.0 MB/0.7 MB	1.0 MB/0.7 MB

▲ Tape Drive	
Number of Tracks	9
Back up Time (60 MB Tape)	20 minutes
Tape Speed	90 inches/second

▲ Physical Characteristics	
Width	8"
Height	24"
Depth	22"
Weight	68 lbs to 86 lbs

▲ 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.	
Ambient Temperature Range	60-90 F
	15-32 C
Relative Humidity Range	20-80%
	(noncondensing)

▲ Warranty
This Altos product carries a 90-day limited warranty.

▲ Ordering Information
Each base system is configured with one 80286 CPU board, one RAM board, one or two serial communication subsystem, one file processor subsystem, 1.2 MB floppy, a hard disk, streaming magnetic tape drive, Operating System, and Owners' Guide.
For more information contact your Altos reseller.



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