



AT&T

THE AT&T PERSONAL COMPUTER MODEL 6300 PLUS:

The performance you need today with the advanced capabilities you'll need tomorrow



UNIX System V:

Unique Features for Enhanced Capabilities

With the optional UNIX System V¹, the AT&T PC 6300 PLUS is the only PC which can deliver true integration of the MS-DOS and UNIX Operating Systems. This integration provides even MS-DOS-only users with the advanced capabilities of UNIX, and allows a smooth evolution into the full function UNIX System V environment.

OS Merge

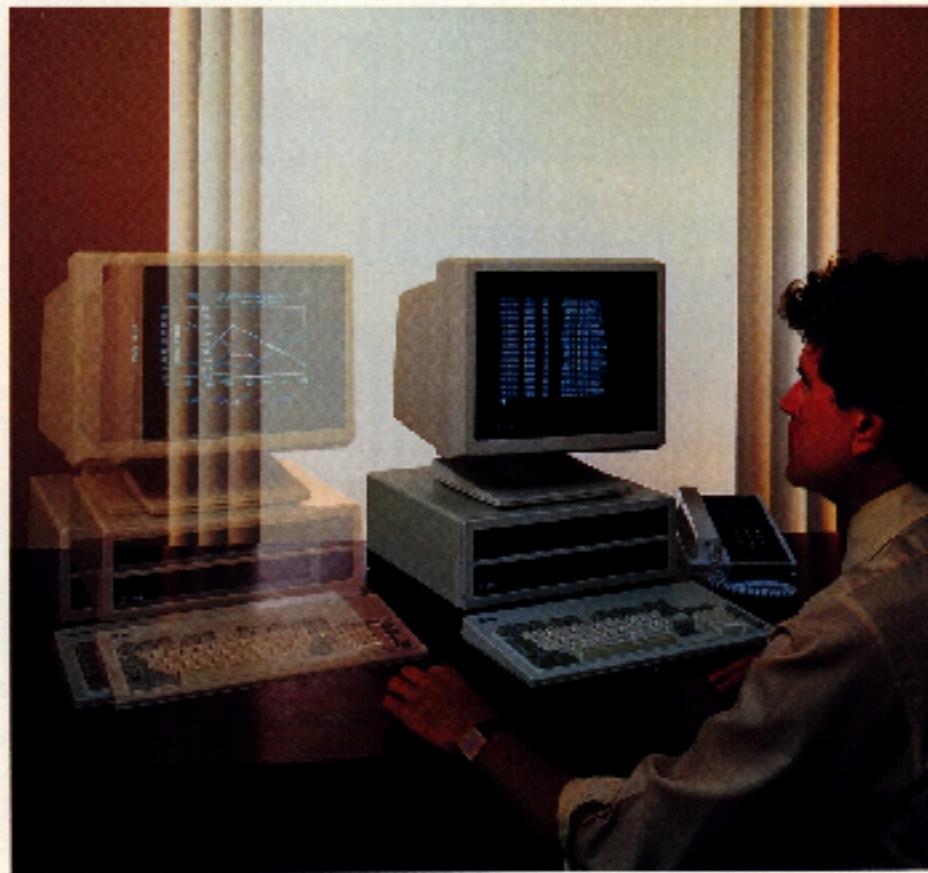
The OS Merge feature, a true technological innovation, is unique to the AT&T PC 6300 PLUS. It allows the user to easily switch between the MS-DOS and UNIX System V environments—with a single key-stroke, no rebooting. Unlike on other PCs, the operating systems can run concurrently. MS-DOS runs as one task under UNIX System V, with several UNIX System applications running at the same time. UNIX System V and MS-DOS files are stored together in the same file structure, so UNIX System V and MS-DOS programs can share the same data. And, both MS-DOS and UNIX System V files can be transmitted to other compatible machines.

When operating under UNIX System V, the AT&T PC 6300 PLUS does not emulate MS-DOS—it runs real MS-DOS and real UNIX. This gives the user the best of both systems.

True Multi-Tasking

Through the power of UNIX System V, the PC 6300 PLUS provides the best multi-tasking capability available today. It works the way real people work—on more than one task at a time, and subject to continual interruption. It enables the user to manage and access MS-DOS and UNIX System V applications and files. It allows multiple applications to run—even unattended—with no need for user concern about which operating system the applications run behind. For this reason, the PC 6300 PLUS is the friendliest PC on the market today.

In the UNIX System V environment, the PC 6300 PLUS will run MS-DOS or UNIX programs separately or simultaneously. This means that a fully functional MS-DOS program can run at high speed under UNIX System V, and continue to run while the computer handles communications, records notes, or opens up additional screen windows for other UNIX System V applications. When MS-DOS runs concurrently with



¹Expected availability early 1986

UNIX System V, no rebooting is necessary—thus there is no interruption of activity. For example, while running an MS-DOS application such as LOTUS 1-2-3, the same user can be printing a report, sending electronic mail to another computer and accessing the corporate mainframe—all at the same time.

The multi-tasking capability of the AT&T PC 6300 PLUS is like having the power of several high-performance computers working for you from a single keyboard—a choice that only AT&T can offer.

User Interface

The User Interface brings all the power and enhanced functionality of MS-DOS applications and UNIX System V to your fingertips by providing a window/icon user environment. The easy-to-use menu-driven User Interface feature works with UNIX System V and makes UNIX and MS-DOS running under UNIX System V transparent to the user. This means that the user need only know the application software—not the

complicated workings of the operating systems themselves.

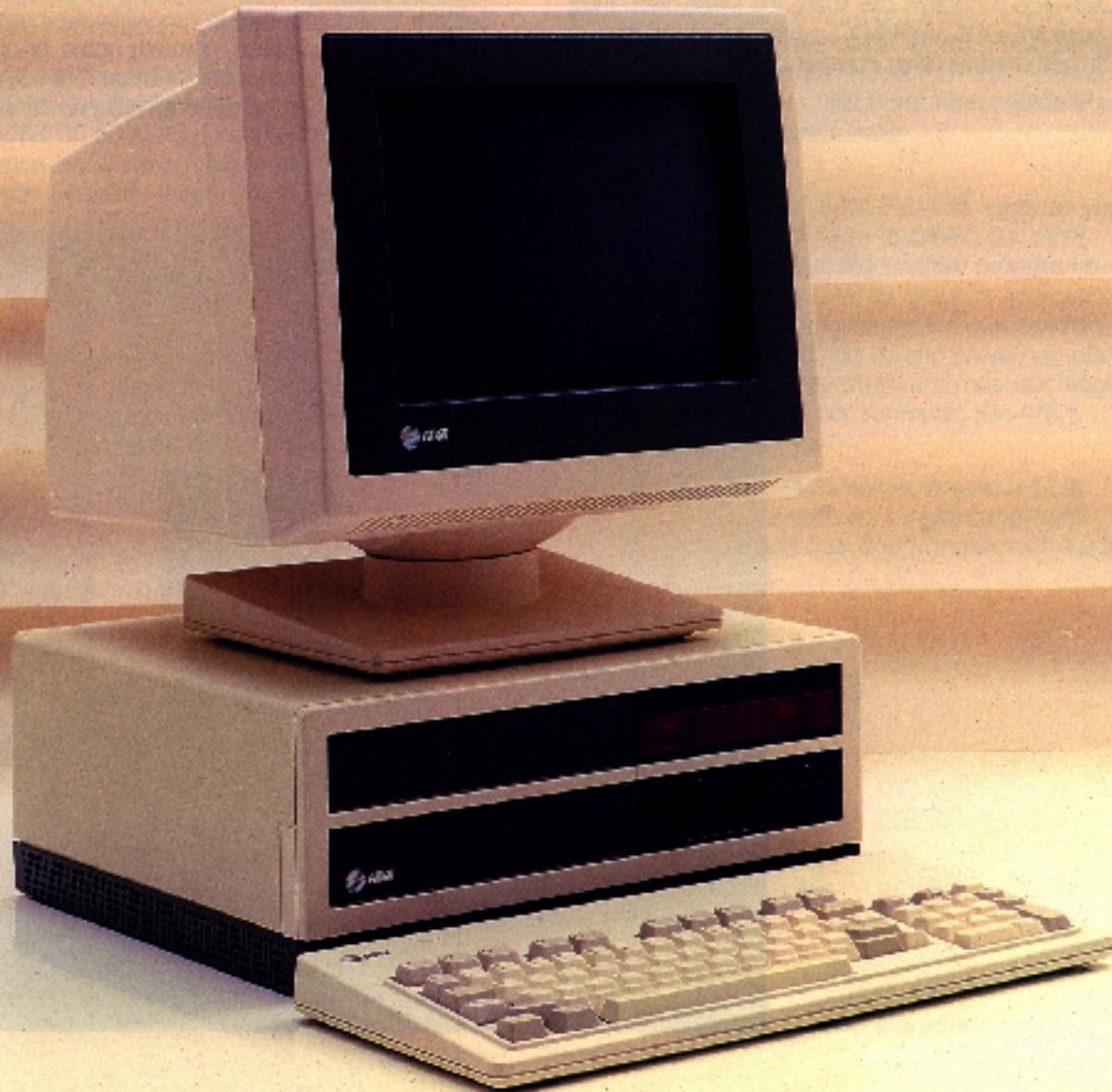
File Protection

UNIX System V provides security for your programs and files through password protection at log-in and read/write/execute file permissions. Unauthorized users cannot access the files, whether the files were created under MS-DOS or UNIX System V.

Special Benefits

Under the UNIX System V environment the AT&T PC 6300 PLUS provides a number of additional user benefits. These include sophisticated voice and data communications capabilities...unattended application scheduling and sequencing of both MS-DOS and UNIX System V applications...and a convenient environment for systems developers.

Software developers can even take advantage of UNIX System V performance in developing MS-DOS applications. The PC 6300 PLUS, with the integration of



AT&T PC 6300 PLUS Technical Specifications

Standard Configurations

- Hard Disk Unit
 - 512 K RAM
 - 1.2 MB Floppy Disk
 - 20 MB Hard Disk
- Floppy Disk Unit
 - 512 K RAM
 - 1.2 MB Floppy Disk
 - 360 K Floppy Disk

Processor

- Intel 80286

Co-Processor

- 80287 (Optional)

Clock Speed

- 6 MHz

Wait States

- Zero

Data Bus/CPU Architecture

- 16 Bit/16 Bit

Address Bus

- 20 Bit—Real Mode
- 24 Bit—Protected Mode

Operating System

- MS-DOS 3.1 and/or UNIX System V Release 2.0 with: User Interface, File and Record Locking, File System Handling, Automatic Bad Track Maintenance and Shared Subroutine Library

Operating System Concurrency

- OS Merge enables MS-DOS to run concurrently with UNIX System V.

Main Memory

- 512 K standard on motherboard upgradable to 1 MB. Will support 3 additional 2 MB RAM expansion boards for a total of 7 MB.

Floppy Disk Drive

- 1.2 MB 36 lpi standard
- 360 K 48 lpi optional

Hard Disk

- 20 MB internal half height

Display

- 12" (30cm) monochrome or color screen, supporting 640x400, 640x200, 320x200 graphics modes; 80x25 character mode

Keyboard

- Selectric[®] layout of QWERTY key cluster
- 84 keys (84th key used to activate OS Merge)
- 10 function keys (across the top of the keyboard)
- 15 digit numeric pad
- Scattered keys
- Adjustable inclination
- Tactile and acoustic feedback
- N key rollover
- Interface for AT&T PC 6300 Mouse
- 6' (1.8m) coiled cord attachment to system
- LED indicators on NUM LOCK, SCROLL LOCK, and CAP LOCK keys
- AT&T PC 6300 keyboard (optional)

Telephony

- AT&T PC 6300 Communications Manager for MS-DOS (optional)
- AT&T UN*X Telephone Manager Software (optional)

EIA RS-232C (Serial Port)

- Standard asynchronous up to 9600 bps

Parallel Printer Port

- Standard 25 pin Centronics[®]

Expansion Slots

- Seven (4 8 Bit, 3 16-Bit)

Clock/Calendar

- Standard on motherboard, includes battery back up

Dimensions

- 15" x 6" x 15" (37.5 cm x 15 cm x 37.5 cm)

Electrical

- 100-120V ± 10%; 50-60Hz ± 5%

Ambient Temperature

- 50°-104°F (10°-40°C) operating
- 40°-115°F (4.5°-46°C) non-operating

Relative Humidity

- 20% - 80% operating
- 5% - 95% non-operating

Altitude Limitations

- 0-10,000' (0-3000m) operating
- 0-30,000' (0-9000m) non-operating





Fully compatible with AT&T PC 6300, AT&T's new PC 6300 PLUS is the only PC that lets users run UNIX and MS-DOS applications simultaneously. Users control both kinds of applications through the same easy-to-learn User Interface.



Fully compatible with the AT&T PC 6300,TM AT&T's new PC 6300 PLUS is the only PC that lets users run UNIXTM and MS*-DOS applications simultaneously. Users control both kinds of applications through the same easy-to-learn User Interface.

*MS-DOS is a trademark of Microsoft, Inc.



AT&T

ENHANCED MEMORY EXPANSION BOARD

FOR: AT&T PC 6300 & PC 6300 PLUS COMPUTERS

Product Overview:

The AT&T Enhanced Memory Expansion Board allows the AT&T PC 6300 and PC 6300 PLUS Computers to harness the power of up to 2 additional MB of memory per memory board.

The easily installable 16-bit board increases the speed and power of programs such as *LOTUS 1-2-3* (Release 2) by providing additional memory beyond the limits imposed by MS-DOS. The expansion board comes with RAMDISK and Print Spooler utilities that boost the speed and flexibility of the AT&T personal computers. In addition, the AT&T Enhanced Memory Expansion Board fully supports the **UNIX** System V Operating System and applications, and the Simul Task operating system merge feature of the PC 6300 PLUS.

The AT&T Enhanced Memory Expansion Board operates in two modes: the AST Research Inc. Enhanced Expanded Memory Specification mode (a superset of the Lotus/Intel/Microsoft Expanded Memory Specification) for MS-DOS, and the Extended Memory mode for the **UNIX** System V Operating System.

MS-DOS can normally access no more than 640K of usable RAM. The AST Enhanced EMS mode makes additional memory available to MS-DOS on a rotating or "paging" basis. This gives the user full use of up to 2 MB per expansion board using *LOTUS 1-2-3* (Release 2), environment managers like Quarterdeck's DESQview¹, other MS-DOS software written for the Lotus/Intel/Microsoft EMS, and the RAMDISK and Print Spooler utilities. Up to three boards can be installed, providing up to 6 MB of expanded memory for MS-DOS applications.

There is no need to purchase and install additional RAM on the motherboard to benefit from the added power of the AT&T Enhanced Memory Expansion Board in Enhanced EMS mode. The board's Split Memory Addressing² feature allows it to "fill in" the memory capacity of a PC 6300 or PC 6300 PLUS Computer equipped with less than the full 640K of usable RAM.

In Extended Memory mode, the **UNIX** System V Operating System on the PC 6300 PLUS can directly access up to 2 MB of additional memory per board. Using the three available expansion slots, the user can install up to three expansion boards, giving the **UNIX** System V Operating System access to 7 MB of RAM—1 MB of RAM on the motherboard and 6 additional MB on the expansion boards.

The AT&T Enhanced Memory Expansion Board operates in both the Extended and Enhanced EMS modes at the same time.

Features:

- Adds up to 2 MB of usable memory per board.
- Installs easily in the 16-bit expansion slot(s) of both the AT&T PC 6300 and PC 6300 PLUS Computers.
- Fully transparent to the user after installation.
- Can be configured to work with MS-DOS and the **UNIX** System V Operating System.
- Fills conventional system memory up to 640K, adds paged memory within the standard 1 MB address space and extended memory above 1 MB.
- Delivered with 512K RAM installed, upgradable with socketed 512K RAM Upgrade Chip Sets.
- Comes with SuperPak³ utility, featuring RAMDISK, Print Spooler, and the AST Research Inc. Enhanced Expanded Memory Specification device drivers.
- Can be segmented for use in both Enhanced EMS and Extended modes. Segments must be 128K or multiples of 128K.

Support:

One-year toll-free helpline service for customer assistance during normal business hours. Maintenance contracts can be purchased for additional customer premises support.

For additional information, contact your AT&T Account Executive or your Authorized AT&T Supplier.

¹Trademark of Lotus Development Corporation.

²Trademark of Microsoft Corp.

³Trademark of Intel Corporation.

⁴Trademark of Quarterdeck Office Systems.

⁵Trademark of AST Research, Inc.

AT&T PC 6300 PLUS: COMPARED WITH THE COMPETITION

<u>CAPABILITY</u>	<u>IBM PC AT</u>	<u>COMPAQ 286</u>	<u>AT&T PC 6300 PLUS</u>
Operating System	MS-DOS/Xenix/ PC/IX	MS-DOS/Xenix/	MS-DOS/UNIX System V
User Agent	Topview (DOS only)	Topview (DOS only)	User Interface (With UNIX System/ OS Merge)
Wait States	Yes	No	No
6300/XT Upgrade	No	No	Yes
Standard On-Site Service	No	No	Yes
Integrated Communications	No	No	Yes
LAN Support	IBM PC Network	None	AT&T STARLAN Network
Main Memory min/max	256KB/3MB	256KB/8.2MB	512KB/7MB
Fixed Disk - min/max	20MB/41.2MB	20/30/70MB	20MB
Floppy Disk	1.2MB/360KB	1.2MB/360KB	1.2MB/360KB
Graphics Interface	Optional	Standard	Standard
Graphic Resolution	640x200	640x200	640x400 (Standard)
Available Expansion Slots	5	4 (5 floppy only)	7 (6 with 20MB disk)
Price*	\$6,320	\$6,254	\$6,320

*For the AT&T PC 6300 PLUS, IBM PC AT Model 99 and Compaq Deskpro 286, Model 2, price includes 512K, 1.2 MB floppy disk, 20MB hard disk, monitor, keyboard and serial/parallel port



PRODUCT HIGHLIGHTS

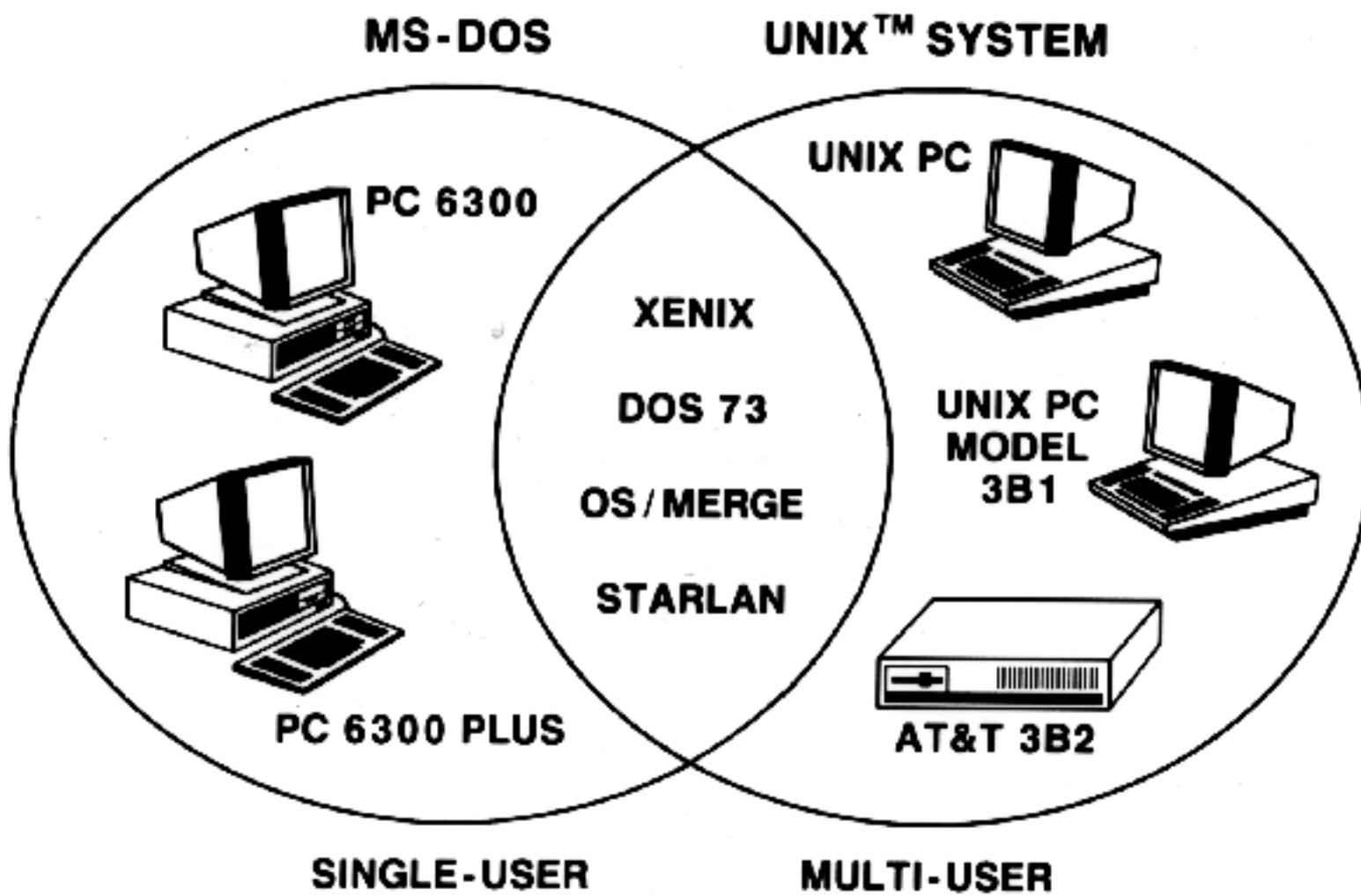
October 9, 1985

<u>PRODUCT</u>	<u>AVAILABLE</u>	<u>PRICE</u>
AT&T PC 6300 PLUS		
Hard Disk System	Now	\$6,320
Dual Floppy System	Now	\$5,095
MS*-DOS Operating System	Now	\$65
UNIX™/OS Merge Terminal	1Q86	\$395
80287 Math Co Processor	Now	\$375
512KB RAM Chip Set	Now	\$295
AT&T PC 6300 OPTIONS		
6300 Upgrade to PC 6300 PLUS	December 1985	\$2,995
AT&T UNIX PC Model 3B1##		
40MB Internal Hard Disk/1MB	November 1985	\$8,495
40MB Internal Hard Disk/2MB	November 1985	\$8,995
67MB Internal Hard Disk/2MB	November 1985	\$9,995
AT&T UNIX PC OPTIONS##		
DOS-73 Co-Processor	Now	\$995
DOS Math Co-Processor	November 1985	\$295
Dual EIA Port Board	November 1985	\$450
2 EIA PORT/.5MB RAM Combo Board	November 1985	\$1,195
2MB RAM Expansion Board	Now	\$1,795
Release 3.0 System Software	November 1985	\$495#
Upgrade Kit for 20/40/67MB	Now	\$975
Upgrade Kit for 40MB	November 1985	\$3,495
Upgrade Kit for 67MB	November 1985	\$3,995
External Tape Backup	November 1985	\$1,995
512KB RAM Chip Set	Now	\$295

##Can be ordered now

#Free upgrade to users of release 2.0 system software





BEST OF BOTH WORLDS -- AT&T is building bridges between PC operating systems, giving users the best of both worlds -- the vast base of MS+DOS applications plus the communications capabilities and multi-tasking strengths of the UNIX* system.

* MS-DOS is a registered trademark of Microsoft Corp.

* UNIX is a trademark of AT&T

AT&T SMALL COMPUTER WORKSTATIONS AND SYSTEMS

AT&T offers a full array of small workstation/systems, starting with a single-user MS*-DOS PC, the AT&T PC 6300, and ranging upwards to the UNIX™ system-based 3B2/400. This array gives customers the widest possible range of applications and functionality available from any vendor today. AT&T also offers medium-sized minicomputers for larger work groups.

Feature	PC6300	PC6300 PLUS	UNIX PC Model 7300	UNIX PC Model 3B1	3B2		
					300	310	400
Operating System	MS-DOS 2.11	MS-DOS 3.1	UNIX Sys. V	UNIX Sys. V	UNIX Sys. V	UNIX Sys. V	UNIX Sys. V
Processor	8086 Intel	80286 Intel	68010 Motorola	68010 Motorola	32000 WE	32100 WE	32100 WE
Users	1	1	3	5	10	14	25
Optional Operating System	XENIX** MS-DOS 3.1	UNIX Sys V with OS Merge & User Interface	MS-DOS 3.1	MS-DOS 3.1	N/A	N/A	N/A
Multi-Tasking	No	Optional	Standard	Standard	Std.	Std.	Std.
Modem	Optional	Optional	Standard	Standard	Opt.	Opt.	Opt.
Communications Manager	Optional	Optional	Standard	Standard	N/A	N/A	N/A
RAM (Standard)	128 KB/ 256 KB	512 KB	512 KB/ 1 MB	1 MB/ 2 MB	512KB	1 MB	1 MB
Maximum RAM	640 KB	7 MB	2.5 MB	4 MB	2 MB	2 MB	4 MB
Disk Storage	10 MB/ 20 MB	20 MB	10 MB/ 20 MB	40 MB/ 67 MB	30 MB/ 72 MB	30 MB/ 72 MB	30 MB/ 72 MB

* MS is a trademark of Microsoft Corporation

** XENIX is a trademark of Microsoft Corporation

