



The AT&T  
3B2/300 Computer.  
When you've  
got to be right.





# The computer to control your company's future.

Your business is growing. And so are its day-to-day challenges. Like the need to come to grips with ever-increasing paperwork, set up cost controls and spend less time on payroll, receivables and cash flow details.

The AT&T 3B2/300 Computer is the right tool at the right time. It puts unmatched resources within reach of your business. Resources that until now were reserved for the larger corporations. Not only will the 3B2/300 help you plan, control and manage your operations more effectively, it can become the cornerstone of your business. Now and for years to come.

## Why the AT&T 3B2/300 is the right buy:

The AT&T 3B2/300 Computer can boost your office operations and lower your costs. Driven by the popular *UNIX*<sup>1</sup> System V operating system, it supports up to 18 users — office workers, professionals and managers. Your people can execute many tasks concurrently. Working on common files and programs, they'll share processing power, memory, peripherals and applications. The result is super efficient use of your DP resources at a low cost per user.

With the AT&T 3B2/300 at your disposal, you'll apply computing power where you need it — at your central office, warehouse or local plant.

As a standalone computer, the 3B2/300 performs a multitude of functions — from inventory management and accounts receivable to sales analysis. Of course, it also makes short work of office functions such as business correspondence, reporting and electronic mail.

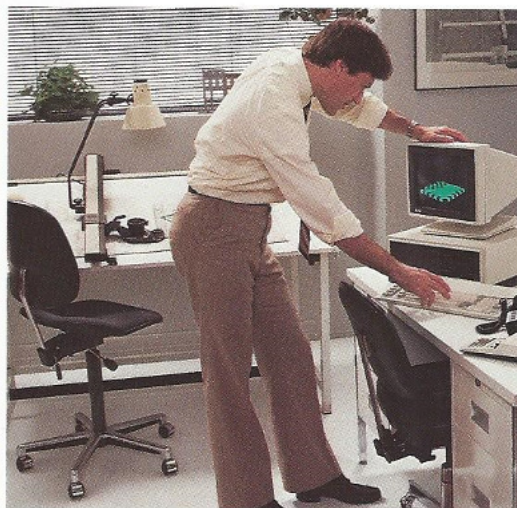
As a computer linked to a mainframe and other workstations, it also shares data, records and peripheral devices among multiple users.

Whatever its configuration, the 3B2/300 will help control your workload and raise your people's productivity. Best of all, it lays the groundwork for future growth.

## Extraordinary value — for today and tomorrow.

The AT&T 3B2/300 delivers the vital capabilities your business needs in the years ahead. Among them is the *UNIX* System V operating system — unrivalled in its ability to support simultaneous users. Your key people will create, access and move information quickly and easily. Altogether, the 3B2/300 gives you unique flexibility to meet your changing needs:

**A portable operating system.** The *UNIX* System V operating system grows with your business. You see, the 3B2/300's *UNIX* System V applications programs run on AT&T's entire line of micro and minicomputers. As your needs expand, you'll move your *UNIX* System V software applications to other AT&T 3B2 and 3B5 Computers effortlessly. Without costly reprogramming and personnel training.

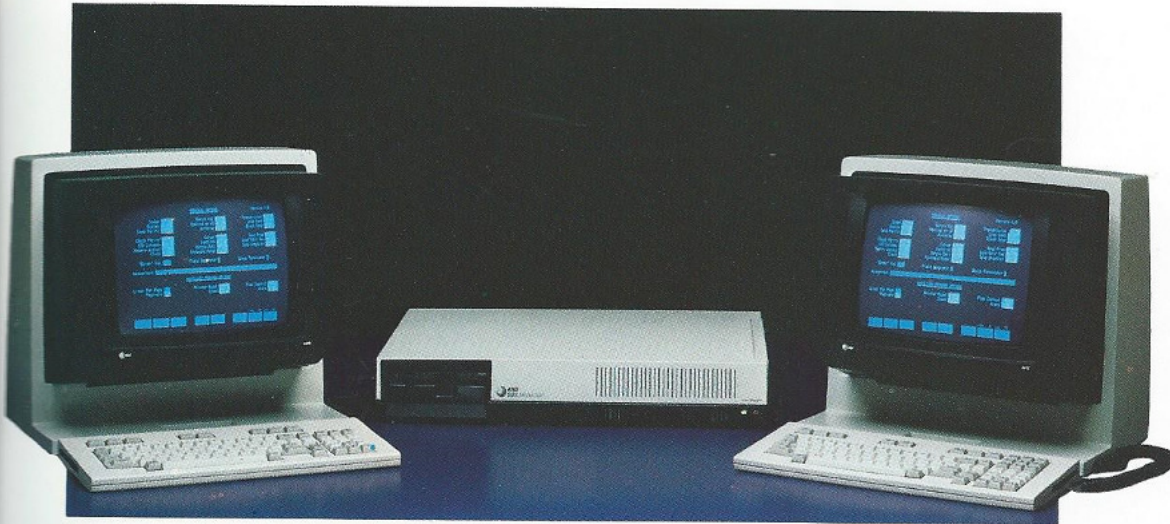


**A wide choice of applications.** Countless applications can meet your needs. Our Business Management Series performs a full range of business functions, from accounting and financial analysis to sales administration. Our Office Productivity Series boosts office productivity with such tools as word processing, filing and spreadsheets. A Communications Series System enables your processors and terminals to talk to each other. And there's an Industry Series to focus on the specific requirements of your business, such as retail, wholesale distribution and more.

**A wide range of communication options.** Now your people can access and share resources — in the same building or thousands of miles away. You'll transfer text, graphics and files to personal or host computers over telephone lines through standard RS232C channels at 19.2 Kbps. Or, by hooking up the AT&T 3B2/300 to *ETHERNET*<sup>2</sup> networks, you'll transfer data at up to 10 Mbps.



# Reach out in many directions.



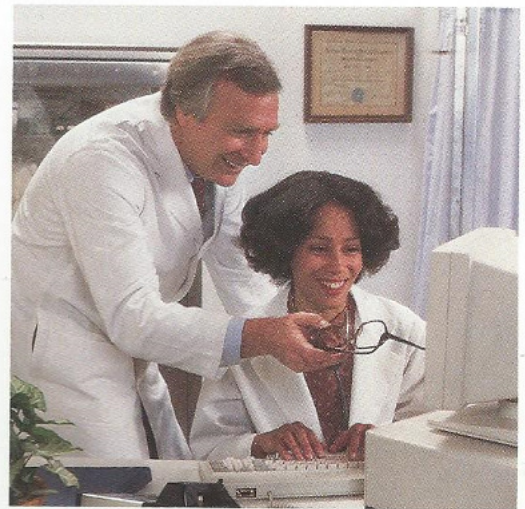
A wide range of networking options makes the AT&T 3B2/300 Computer fit right into your workplace. Your people can access other computers, from mainframes and workstations to personal computers. They'll send and receive data and files at a variety of speeds.

*Where UNIX System V meets MS-DOS<sup>3</sup>.* AT&T's PC Interface links MS-DOS software-based personal computers with a 3B2/300, forming a fully integrated system. It connects two powerful worlds – the sheer power of the UNIX System V operating system and the abundance of MS-DOS applications.

As a result, the AT&T 3B2/300 operates as a file server for personal computers. Your PC users can store data on the 3B2/300's hard disk. They'll move files between 3B2/300 and MS-DOS software-based machines. And they'll run MS-DOS programs using UNIX System V data, with the PC Interface handling all translations.

There's more. The PC Interface slashes your data processing costs by allowing people to share files and expensive resources, such as printers, modems, disk drives and more.

*Context Switching.* If your 3B2/300 Computer works jointly with AT&T Personal Computers, this feature alone acts as a great time-saver. With the flick of a key, users can switch back and forth between MS-DOS and UNIX System V applications. For example, you may suspend a worksheet program to consult an outside source. You'll return to your original application without changing diskettes. The screen, cursor position and files are all maintained, eliminating the need to start or restore each application.

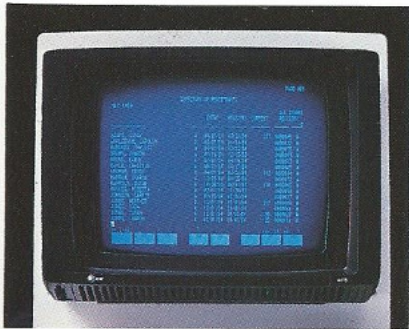




# High-powered components for your business.

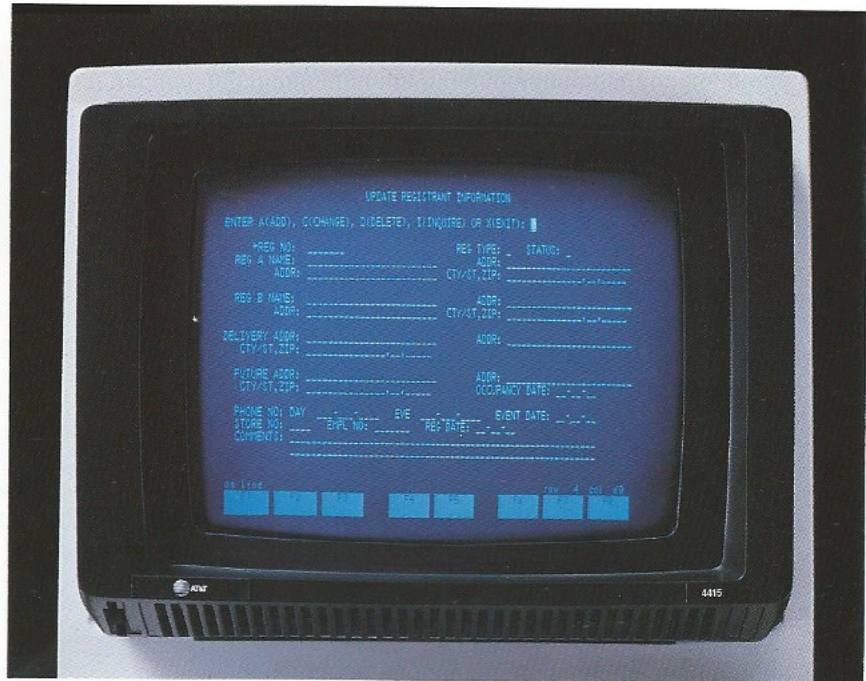
The AT&T 3B2/300 Computer packs the power and functions of much larger machines on the corner of a desktop. It combines an ultra-fast processor with the *UNIX* System V operating system — so powerful it can handle a multitude of computing requirements.

*UNIX* System V — the standard of the 80's.



The *UNIX* System V operating system propels you into a world of high productivity. Designed by AT&T Bell Laboratories, it is widely acclaimed throughout the industry. No wonder, with its ability to support many users and tasks concurrently, to run on a variety of hardware and to simplify the programming process.

The wealth of *UNIX* System V capabilities makes it ideally suited for your short and long term needs.



## Leading edge hardware.

The ultra-compact AT&T 3B2/300 Computer looks deceptively simple. Despite its small size, a host of advanced components deliver the power of a mainframe and support many users and jobs at the same time.

*The fast WE<sup>4</sup> 32000* chip provides the 3B2/300 Computer's blinding speed. Developed by AT&T Bell Laboratories, it condenses 150,000 transistors on the size of a fingernail. It's a true 32-bit processor, with data and address paths a full 32-bits wide. The result is enhanced speed and throughput.

*A high speed I/O bus* links the system's memory and peripherals. It moves data between memory and outlying devices 32 bits at a time and at subsecond response times.

### *Internal memory.*

The 3B2/300 provides enough space for your most powerful programs – in configurations of 512 KB, 1 MB and 2 MB. These configurations consist of 2 memory boards that can be plugged into slots on the system board. Memory board density options are 256 KB and 1 MB. Double-ported, they give you extra speed.



*Data storage.* You can choose between a built-in 5¼" mini-Winchester hard disk drive of 10 MB or 32 MB of formatted storage. Altogether, enough space and flexibility to store all the facts and figures your business requires.





## Smart processors share the load.

Throughout the AT&T 3B2/300 are multiple intelligent devices. To your company's users, they mean extra reliability, fast input/output and memory access. By removing workload from the central processor, they also boost speed and performance.

- A powerful, on-board 80186 microprocessor speeds up input/output activity. On each port card, it supports a *Centronics*<sup>®</sup> parallel printer interface and four asynchronous RS232C communication channels, each capable of up to 19.2 Kbps communications.

- The I/O subsystem's integral peripheral controllers employ the latest Very Large Scale Integration (VLSI) technology. Using Direct Memory Access, they give you lightning quick response times.

- A backplane includes four I/O slots. It features a unique access method. Each slot gets equal access to the I/O bus under heavy load, but full access under light traffic, providing optimal use of the facility.

## Built-in reliability.

To keep your system up and running, the AT&T 3B2/300 Computer includes perhaps the most extensive diagnostics ever built on a microcomputer of this power range. They protect you from operation interruptions and simplify maintenance.

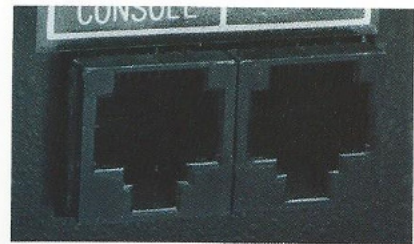
*A Non-Volatile Random Access Memory (NVRAM)* stores console configuration and error information. Powered by a user-changeable battery, it aids maintenance personnel in the event of machine failure.

As you switch on the system, a terminal automatically accesses error and status information and displays it on the screen.

## Soft power feature.

This procedure shuts down the 3B2/300 in an orderly sequence, preserving the integrity of the file system.

*A battery of automatic diagnostics* makes maintenance easy and raises system availability. At power-on time, the system automatically checks the status of its modular components. If needed, several tests can pinpoint faulty components on the screen, and lead you to a quick fix.



# When you've got to be right.

The AT&T 3B2/300 Computer means more than leading edge technology. It embodies the quality and durability standards that built the reputation of the world's most reliable telephone system.

Built to last, it reflects AT&T's ongoing commitment to quality. At all stages of design and manufacturing, special care is taken to build a system that responds to the most exacting requirements.

Ask your authorized dealer for a hands-on demonstration. It could be your best move ever toward greater control over your company's future.

## AT&T 3B2/300 Specifications

### Processor

- 32 bit *WE* 32000
- 8, 16, or 32 Bits
- Virtual addressing
- 32 KB ROM for self-test, automatic configuration, bootstrapping

### Main Memory

- Dual ported dynamic RAM
- 512 KB expandable to 2 MB

### Mass Storage

- Winchester hard disk: 10 MB or 32 MB (formatted size)
- Floppy disk: 720 KB (formatted size)

### I/O

- Two RS232C (serial, asynchronous, full duplex) ports-9.6 Kbaud

### Communications

- AT&T 3BNET Local Area Network Option Card for connection to other AT&T 3B Computers. High Speed (10 Mbit), *ETHERNET* compatible protocol, with microprocessor support for lower host loading

### I/O Expansion

- Feature Card slots: (4)  
Available Optional Feature Cards include:  
I/O Expansion Ports Card: (4)  
Serial RS232C Async Ports at 9.6 Kbaud and (1) *Centronics* parallel printer interface

### Peripherals

- AT&T Information Systems 4410 and 4415: support via any RS232C port
- Other RS232C Asynchronous Commercial Terminals: support via any RS232C port

- Printer support via any RS232C port or *Centronics* parallel interface

### Power Requirements

- AC Voltage: 120 VAC, 15 AMPS (standard power)
- Frequency: 60 Hz
- Power Consumption: less than 200 watts (max. configuration)

### Software

- *UNIX* System V Operating System Core Package
- Optional *UNIX* System V Operating System Utilities

### Physical Size

Dimensions: 3.6"H x 22"W x 17"D  
Weight: about 30 lbs.  
Cabinet Load: supports external loads to 60 lbs.

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2 Trademark of Xerox Corporation.  
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