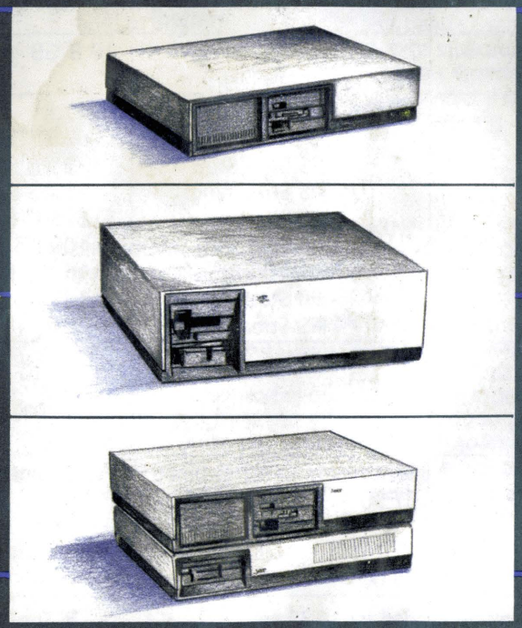
AT&T

For additional information on AT&T Computers, please contact your Information Systems Account Executive or Authorized AT&T Representative.

PM/AC-4320

AT&T

AT&T 3B COMPUTERS



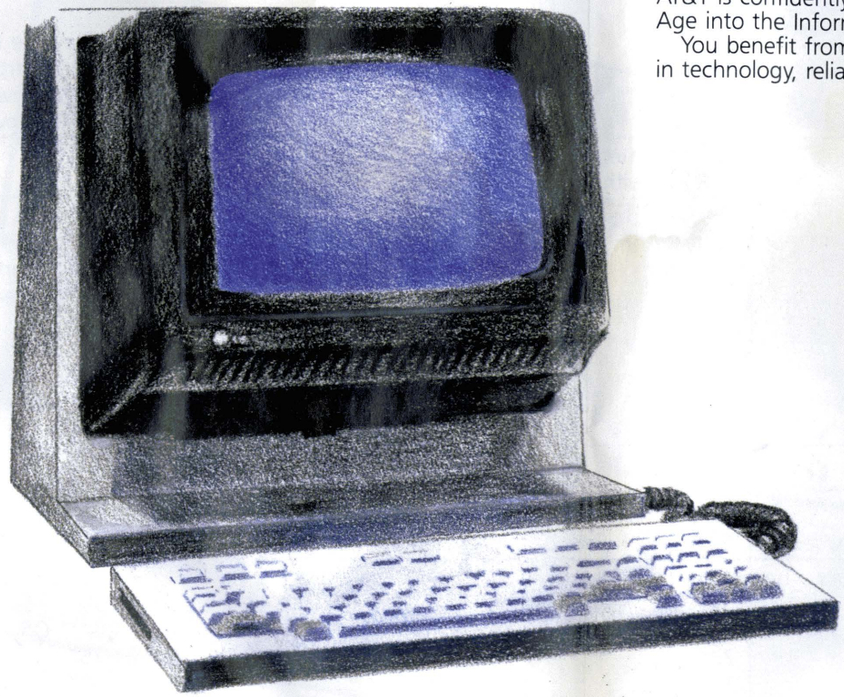
THE AT&T ADVANTAGE

The AT&T Computer product line integrates leading edge silicon technology and an open architecture with **UNIX**™ System V, the highly portable, multi-user, multi-tasking operating system that is rapidly becoming the industry standard.

The office of the future embodies the integrated information processing and management systems environment. AT&T's natural response to that environment is to merge computer and communication systems, combining technological excellence with user friendly interfaces.

Once again, AT&T brings its renowned leadership heritage to the world of information processing. Guided by over a century of experience, AT&T is confidently advancing the Computer Age into the Information Age.

You benefit from The AT&T Advantage — in technology, reliability and service.



UNIX SYSTEM V

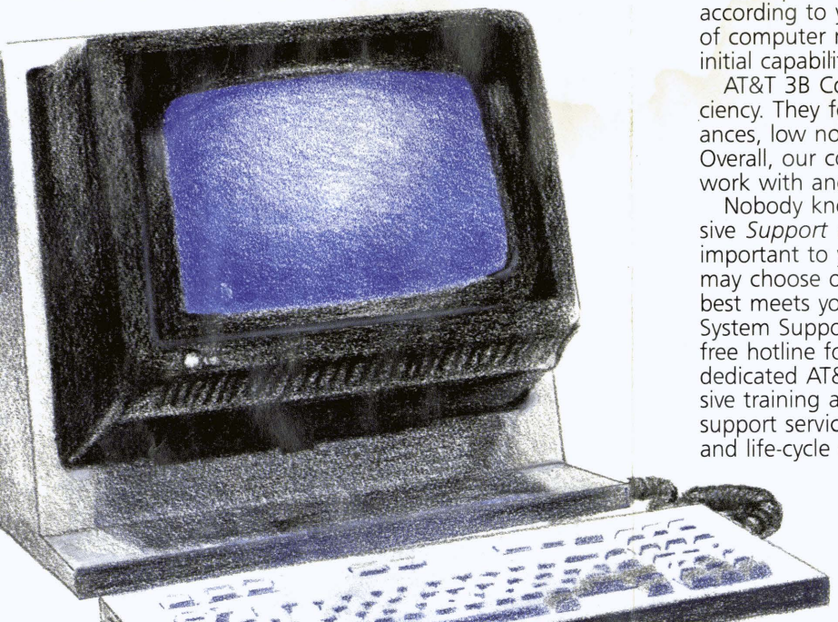
UNIX System V is designed to allow you to easily move application software between AT&T 3B Computers.

So your software investment remains secure in rapid technological change. When your system changes or expands, you preserve your unique applications portfolio. To you, this *Portability* means cost savings.

UNIX System V prepares you for the future and is economical. It gives you *Multi-User and Multi-Tasking* capabilities. The multi-user feature creates an environment where expensive computer resources are shared, and where your system can be easily expanded. With multi-tasking, a user can do more than one job at a time, eliminating a long wait for complex processing.

AT&T is making sure your **UNIX** System Software stays a good business decision. With **UNIX** System V, we have developed an interface standard to encourage applications growth and insure maximum portability and compatibility.

You benefit from the familiar AT&T commitment — in software *and* hardware.



AT&T 3B COMPUTERS

The AT&T 3B Computer family provides state-of-the-art technology from supermicrocomputers to fault-tolerant and ultra-reliable superminicomputers. It is made up of building blocks that feature enormous distributed processing power, reliability, communications, networking and price/performance.

Reliability is AT&T's forte as demonstrated by its rich heritage in building the world's finest telecommunications system. This same technology is the foundation for the AT&T 3B Computer family. Reliability is designed and built into each system as are the tools for rapid diagnostics.

AT&T's advanced silicon technology results in high-quality machine *Performance*. The 3B Computers are the first to use our new 256K DRAM chips for high-speed memory. The **WE**™32000 microprocessor family, with true 32-bit architecture, provides powerful microprocessor performance tailored to **UNIX** System V.

Flexibility in increasing CPU power and peripheral growth capability characterizes 3B Computers. You can expand your system according to your unique needs. A variety of computer models offer you a range of initial capabilities.

AT&T 3B Computers run with *Ergonomic* efficiency. They feature robust environmental tolerances, low noise and power consumption levels. Overall, our computers are easy to live with, work with and maintain.

Nobody knows better than AT&T that responsive *Support* and dependable *Service* are as important to you as the products you buy. You may choose one of our service options that best meets your needs. A nationally deployed System Support Network includes a 24-hour toll free hotline for fast, direct help from expert and dedicated AT&T staff. Coupled with comprehensive training and system documentation, our support service helps keep your maintenance and life-cycle costs low.

NETWORKING

A diverse range of machines work in synergy with AT&T networking products.

AT&T networking products help computers based on **UNIX** System V to talk to an installed base of data processing equipment running under **UNIX** System Software or other operating systems. This means you can arrange computer networks to suit your needs with the computers you now have.

Communications is AT&T's hallmark. With **UNIX** System V as a standard and its open architecture, we can provide a variety of networking options, applying a range of media and protocols.

AT&T 3BNET is a local area network designed for the AT&T 3B Computer family. It is a high-performance data communications system that provides *Ethernet*[1] network compatible interfaces for the entire 3B family. It features easy administration, low-host overhead, user friendly interfaces and non-interfering maintenance. 3BNET combines the flexibility of a highly reliable interconnecting medium with an intelligent network interface. This interface, through reduction of CPU overhead, increases system throughout and CPU utilization, providing high capacity processing and greater system efficiencies.

AT&T network products can provide numerous local area and wide area network solutions. Among them are: AT&T PC Interface which is a *MS*[2]-DOS to 3B2 **UNIX** System V bridge. It can utilize either simple RS 232 connections or an *Ethernet* local area network. Basic Networking Utilities provides **UNIX** System to **UNIX** System communications as well as **UNIX** System to terminal (Call Terminal) capabilities.

Wide area network capability will be provided by X.25 interface software for AT&T 3B Computers.

With AT&T simultaneously developing computers and communications, your office of the future is just around the corner.

1. Registered trademark of Xerox Corporation
2. Registered trademark of Microsoft Corp.

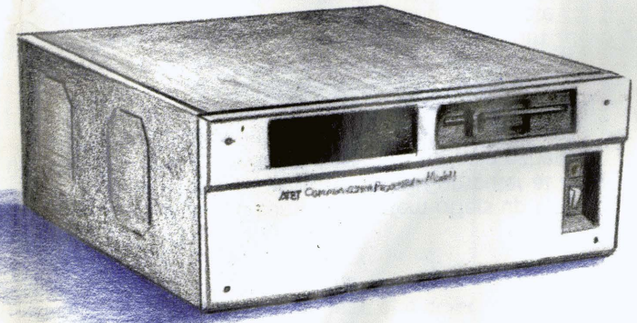
MAINFRAME CONNECTIVITY

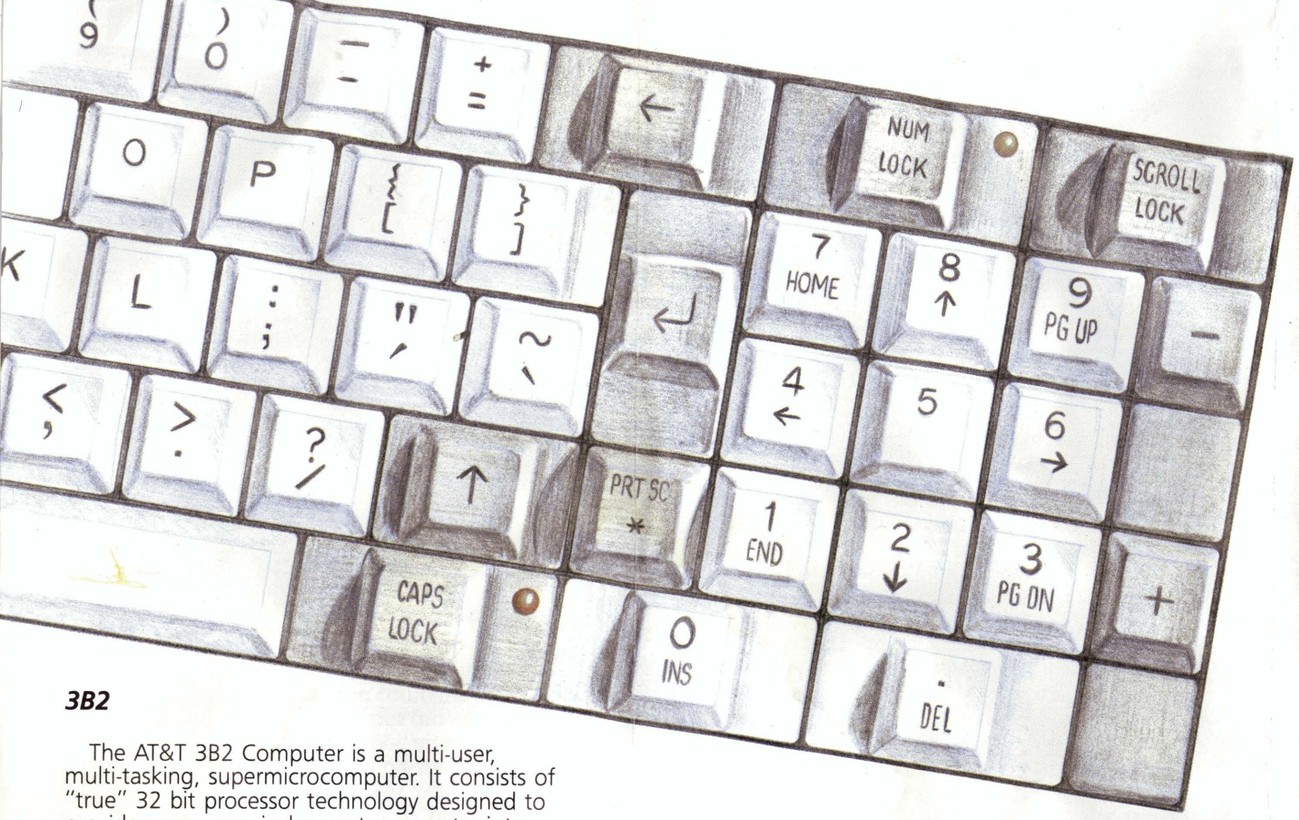
AT&T introduces a new family of products that allow access to IBM[3] mainframes via AT&T 3B Computer networking. Called "mainframe connectivity products," they are designed for distributed departmental processing, and integration with IBM mainframes using SNA or BSC protocol. Included are:

- ☐ AT&T SNA/3270 Emulator+
- ☐ AT&T BSC/3270 Emulator+
- ☐ AT&T Application Program Interface
- ☐ AT&T Communication Processor
- ☐ E4540: 3270-Compatible Information Display System

These mainframe connectivity products essentially develop a departmental "window" for accessing data to support management decisions. Mainframe data is easily down-loaded and processed by a 3B Computer family member and networked to the user. This unique extension of networking is another large step towards integrating information systems into one cohesive network driven by the 3B Computer family, the computers with the future built in.

3. Registered trademark of International Business Machines Corporation





3B2

The AT&T 3B2 Computer is a multi-user, multi-tasking, supermicrocomputer. It consists of "true" 32 bit processor technology designed to provide an economical, easy-to-use entry into the world of 3B computing. This **UNIX** System V powerhouse can serve up to 25 concurrent users, and offers a 3B base for continued growth.

3B2/300

☐ This model is designed for six to 10 concurrent users and up to 18 connected devices.

3B2/400

☐ This model is designed for 10 to 25 concurrent users and up to 46 connected devices.
☐ Offers optional advanced hardware for greater floating point performance.

XM

☐ AT&T's XM (expansion module) adds additional storage capacity: for tape back-up facilities, larger disk capacity, and multiple floppy disk drives.
☐ Compatible with both the 3B2/300 and 3B2/400 Computers.

3B5

The AT&T 3B5 Computer is AT&T's flexible mid-range offering of the 3B Computer line. The 3B5 is a multi-user, multi-tasking, minicomputer designed to support office automation, general computing, vertical, and other applications. It is a powerful computer capable of handling a wide range of requirements, such as a departmental computer that is part of a truly distributed data processing environment.

The 3B5 has exceptional power, versatility, and price performance for those customers who need mid-range minicomputer capabilities. To support a business and office environment, the 3B5 is designed to be extremely easy to install, configure, operate, and administer while providing a wide range of peripheral and communications options.

To protect your current investment, a migration package is available to bring 3B15 performance to your existing 3B5.

3B15

The 3B15 is a key addition to the AT&T 3B Computer family. Large workplaces will benefit from the 3B15 which supports up to 60 concurrent users. It provides the same extensive set of options as the 3B5 but with 25% greater performance. It is the logical choice for customers whose high-volume processing and complex computational needs exceed the capabilities of the 3B5 Computer.

The 3B15's performance is driven by the **WE**32100 microprocessor and an integral Math Acceleration Unit combined with an optimized version of **UNIX** System V.

3B20S

The 3B20S is a high-end superminicomputer. It's a powerful I/O system that meets the high-capacity needs of data centers, office environments and manufacturing locations. It doesn't need stringent air conditioning requirements or raised floors. No other supermini adapts as easily to such a broad range of environments. The 3B20S Computer runs under **UNIX** System V, making it compatible with other 3B Computer family members. It makes liberal use of microprocessor intelligence. Smart peripheral controllers act as front-end processors to boost system performance.

3B20A

This attached computer system offers up to 1.8 times the power of a 3B20S Computer at a price that's surprisingly low. It's available either as an upgrade feature for an existing 3B20S, or as a new system. Either way, parallel processing is central to the 3B20A Computer. Each processor executes its own system calls independently, thereby increasing processing capability. Both units can be diagnosed locally and via remote access. All current application software developed for the 3B20S Computer runs in object code form on the 3B20A Computer without modification. And like the 3B20S, it is compatible with other family members. The 3B20A Computer is one way we make system growth easy.

Features	***3B2/300***	***3B2/400***	***3B5***	***3B15***	***3B20S***	***3B20A***
Typical Applications	Software Development Communications General Business Office Automation	Software Development Communications General Business Office Automation	Software Development General Business Office Automation	Software Development General Business Office Automation	General Purpose Scientific/Engineering Software Development	General Purpose Scientific/Engineering Software Development
Operating System	**UNIX** System V	**UNIX** System V	**UNIX** System V	**UNIX** System V	**UNIX** System V	**UNIX** System V
Maximum # of User Ports	18	46	128	128	256	256
Typical # of Users	6-10	10-25	16-48[1]	16-60[4]	50-100	50-100
CPU *MIPS* *Word Size*	 .6 32 bit	 1.0 32 bit	 1.0 32 bit	 1.4 32 bit	 1.0 32 bit	 1.8 32 bit
Memory *RAM* *Cache*	 2 MB	 4 MB	 16 MB[2] 8 KB	 16 MB[2] 8 KB	 16 MB 8 KB	 16 MB *per CPU* 8 KB
Mass Storage *Disk*	☐ 10, 30, or 72 MB Hard Disk ☐ 720 KB Floppy Disk (formatted)	☐ 30 or 72 MB Hard Disk ☐ 720 KB Floppy Disk (formatted)	8 drives:[3] ☐ fixed media 340 MB/drive (279 MB/drive formatted) *OR* 160 MB/drive (134 MB/drive formatted) *OR* ☐ removable media 24 MB cartridge 48 MB/drive (40 MB/drive formatted)	8 drives:[3] ☐ fixed media 340 MB/drive (279 MB/drive formatted) *OR* 160 MB/drive (134 MB/drive formatted) *OR* ☐ removable media 24 MB cartridge 48 MB/drive (40 MB/drive formatted)	16 drives: ☐ removable media 300 MB/drive (256 MB/drive formatted) ☐ fixed media 340 MB/drive (279 MB/drive formatted) 675 MB/drive (550 MB/drive formatted)	16 drives: ☐ removable media 300 MB/drive (256 MB/drive formatted) ☐ fixed media 340 MB/drive (279 MB/drive formatted) 675 MB/drive (550 MB/drive formatted)
Maximum disk storage (unformatted)	86 MB Internal 528 MB with XM	172 MB Internal 860 MB with XM	2.7 GB	2.7 GB	10.8 GB	10.8 GB
Tape	½" Cartridge Tape Drive 23 MB (formatted) (with XM)	½" Cartridge Tape Drive 23 MB (formatted) (internal)	(4) 9 Track ☐ 1600 BPI 25 IPS Start-Stop 75 IPS Streaming ☐ (4) 9 Track 6250/1600 BPI 25 IPS Start-Stop 75 IPS Streaming	☐ (4) 9 Track 1600 BPI 25 IPS Start-Stop 75 IPS Streaming ☐ (4) 9 Track 6250/1600 BPI 25 IPS Start-Stop 75 IPS Streaming	9 Track ☐ 6250/1600 BPI 75 IPS Streaming 25 IPS Start-Stop ☐ 6250/1600 BPI 100 IPS Start-Stop ☐ 1600 BPI 125 IPS Start-Stop	9 Track ☐ 6250/1600 BPI 75 IPS Streaming 25 IPS Start-Stop ☐ 6520/1600 BPI 100 IPS Start-Stop ☐ 1600 BPI 125 IPS Start-Stop
Environment *Temperature* *Humidity* *Altitude (above sea level)*	 40-100°F 20%-80% 10,000 ft.	 40-100°F 20%-80% 10,000 ft.	 40-100°F 20%-80% 6500 ft.	 40-100°F 20%-80% 6500 ft.	 32-122°F 20%-80% 6000 ft.	 32-122°F 20%-80% 6000 ft.
Physical Characteristics *Height* *Width* *Depth*	 3.6" 22" 17"	 7.2" 22" 18"	Per Cabinet / Per Cabinet 67.50" / 69.25" *max./* *OR* / 30" *min.* 31.75" / 30.00" 28.00" / 31.25"	Per Cabinet / Per Cabinet 67.50" / 69.25" *max.*[1] *OR* / 30" *min.* 31.75" / 30.00" 28.00" / 31.25"	Per Cabinet *3 typical* 81" 26" 30"	Per Cabinet *4 typical* 81" 26" 30"

1. The 3B5/101 is recommended for 16-32 users
2. The 3B5/101 and 3B15/101 are limited to a max. of 8MB
3. The 3B5/101 and 3B15/101 are limited to a max. of 4 drives
4. The 3B15/101 is recommended for 20-40 users.