
AT&T System 7000 Series: Product Profile

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System Overview

AT&T's new System 7000 Series of RISC-based, UNIX file servers is designed for departmental and corporate computing environments.

These symmetric, multiprocessing systems are repackaged MIServers built by Pyramid Technology.

The System 7000 Series comprises Models 7020, 7040, and 7080.

Vendor

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Morristown, NJ 07960
(800) 247-1212

In Canada:

AT&T Canada, Inc.
3650 Victoria Park Avenue
Willowdale, ON M2H 3P7
(416) 499-9400

Price

Basic configuration prices range from \$88,000 to \$225,000 and up.

GSA Schedule

Yes.

Competition

AT&T's System 7000 Series competes against products from Digital Equipment, IBM, Hewlett-Packard, Amdahl, and Sequent.

Characteristics

See Table 1 for a comparison of system characteristics, including main memory and processing components.

Peripherals

Mass Storage

See Table 2 for the specifications of mass storage devices.

Tape Drives

The System 7000 Series supports two tape units. All models support a 150M-byte, 1/2-inch streaming tape drive. It runs at 1600/6250 bpi and 125 ips. Model 7020 also supports a 150M-byte, 1/4-inch cartridge tape drive.

Model 7020 uses the SCSI interface; Models 7040 and 7080 use the Pertec tape interface.

Terminals/Workstations

The System 7000 Series supports a range of terminals, workstations, and PCs. Operator consoles include AT&T's Model 705 multitasking terminal, Model 615 color multitasking terminal, and X-based terminals such as AT&T's 730X Terminal.

Communications

Protocols Supported: TCP/IP; DARPA's UDP, FTP, Telnet, TFTP facilities; X.25, X.29, B(X.25), BSC, SDLC, NFS, TTY, OSI, and uucp.

Network Applications Supported: SNA 3270/3770, BSC 2780/3780, HLLAPI, SNA LU6.2, X.400, StarGROUP software, Datakit, DECnet, AppleShare.

LANs Supported: 802.3 Ethernet and 802.3 Starlan.

Operating Environment

All System 7000s can operate between 32 and 104 degrees Fahrenheit and within a humidity range of 10 to 80 percent (noncondensing).

Table 1. System Comparison

Model	7020	7040	7080
System Characteristics			
Min./Max. Memory (bytes)	16M-64M	32M-128M	32M-256M
Expansion Increments (bytes)	16M, 32M	32M	32M
Min./Max. Disk Storage (bytes)	323M-15G	470M-64G	470M-64G
Number of Processors	1-2	1-4	1-8
Number of Terminals			
Direct Connect/Shared Access	8-128	16-512	16-512
Max./Recommended No. of Users	128	256	1,000
Date First Installed	1/90	1/90	1/90
Central Processing Unit & Memory			
Computer Type	32-bit	32-bit	32-bit
Processor Model	Pyramid VLSI	Pyramid VLSI	Pyramid VLSI
Memory Type	ECC	ECC	ECC
Floating-Point Co-Processor	—	—	—
Cache Memory (bytes)	256K	256K	256K
Performance Characteristics			
Multiprocessing Capability (Yes/No)	Yes	Yes	Yes
MIPS	14-28	14-56	14-112
Proc. Clock Speed	100 ns.	100 ns.	100 ns.
I/O Transfer Rate (bytes/sec.)	40M	40M	40M
Purchase Price (basic configuration) (\$)	88,000	—	225,000
Memory/Storage Included (bytes)	16M	32M	32M

Note: A dash (—) in a column indicates that the information is unavailable from the vendor.

Table 2. Mass Storage

Model	73724	73786	73783
Type	5.25 inch internal	5.25 inch internal	9 inch internal
Characteristics			
Controller model	SCSI	SCSI	ESMD
Drives per subsystem/controller	8	8	4
Formatted capacity per drive (megabytes)	323	663	1,000
Average seek time (ms.)	—	16.5	—
Rotational/speed (rpm)	—	4002	—
Average access time (ms.)	24.8	24.8	17
Data transfer rate (bytes/sec.)	1.5M	1.5M	2.4M
Supported by system models	7020	7020, 7040, 7080	7040, 7080
Purchase price (basic) (\$)	6,400	9,600	19,500

Note: A dash (—) in a column indicates that the information is unavailable from the vendor.

Physical Specifications

Model	Height (in.)	Width (in.)	Depth (in.)	Weight (lb.)
7020	42	14	30	248
7040	51	24	41	315
7080	51	24	41	315

Electrical Specifications

Model	Power Consumption (watts)	Heat Dissipation (Btus/hr.)	Voltage	Amperage
7020	1.5K	15,000	115/208	12/6
7040	3-6K	18,000	208	24
7080	3-6K	18,000	208	24

Software**Operating System**

The System 7000 Series runs AT&T's UNIX System V.3 and Berkeley 4.2/4.3 operating systems. The operating system is UNIX SVID compliant, and it is compatible with other AT&T products.

Communications

At the network applications level, AT&T offers the Network File System (NFS) that allows users to transparently access files across a network of AT&T systems and workstations. Other network applications include mail, remote login, and file transfer programs.

Other Software

The System 7000 Series supports a broad range of languages and system software. Language offerings include optimizing C, C++, Cobol, Fortran, Pascal, and Common LISP compilers.

The OPEN LOOK Graphical User Interface and X Window environment are supported, as are the latest versions of major database management systems, such as Oracle, Informix, Sybase, Focus, and Ingres.

More than 20 database management programs for commercial and technical applications run on the System 7000 Series.

Sample Configuration Pricing

Sample System 7000 configurations and prices are outlined in the following tables.

Entry Level System: Model 7020

Description	Product ID	Price (\$)
CPU	7370-101	112,500
Main Memory	16MB	included
Console	73750	546
I/O Ports	XMI, STD	included
Disk Controller	SCSI, HA	included
Disk Drive	(2) 663MB	included
Tape Controller	—	included
Tape Drive	—	included
Workstation Controller	—	—
Printer	various	—
Workstation Display	—	—
Total Hardware		113,046
Monthly Maintenance	one-year warranty	—
Operating System	—	included
Languages	—	included
DBMS	—	—
Total		113,046

Intermediate Level System: Model 7040

Description	Product ID	Price (\$)
CPU	7371-100	170,000
Main Memory	32MB	included
Console	73750	546
I/O Ports	73760	6,000
Disk Controller	73728, 73765	11,500
Disk Drive	73786	9,600
Tape Controller	73728, 73765	—
Tape Drive	73745	18,400
Workstation Controller	—	—
Printer	various	—
Workstation Display	—	—
Total Hardware		216,046
Monthly Maintenance	one-year warranty	—
Operating System	—	included
Languages	—	included
DBMS	—	—
Total		216,046

Large System: Model 7080

Description	Product ID	Price (\$)
CPU	7372-100	225,000
Main Memory	32MB	included
Console	73750	546
I/O Ports	73760	6,000
Disk Controller	73730, 73765	13,000
Disk Drive	7378	9,600
Tape Controller	73730, 73765	—
Tape Drive	73745	18,400
Workstation Controller	—	—
Printer	—	—
Workstation Display	—	—
Total Hardware		272,546
Monthly Maintenance	one-year warranty	—
Operating System	—	included
Languages	—	included
DBMS	—	—
Total		272,546

Table 3. Magnetic Tape Equipment

Model	73725	73748	73726/73745	73789
Type	0.25 inch	0.25 inch	0.50 inch	0.50 inch
Format	Cartridge	Cartridge	Reel-to-reel	Reel-to-reel
Number of tracks	18	26	9	9
Recording density (bpi)	—	—	1600/6250	1600/6250
Recording mode	—	—	PE/GCR	PE/GCR
Characteristics				
Controller model	SCSI	SCSI	SCSI	Pertec
Storage capacity (bytes)	155M	320M/520M	146M	146M
Tape speed (inches/sec.)	72	120	125	125
Data transfer rate (bytes/sec.)	90K	240K	800K	800K
Streaming technology	Yes	Yes	Yes	Yes
Supported by system models	7020	7020, 7040, 7080	7020, 7040, 7080	7040, 7080
Purchase price (basic) (\$)	3,150	2,700	18,900/18,900	18,400

Note: A dash (—) in a column indicates that the information is unavailable from the vendor. ■