AT&T 3430/3431 Server

Overview

The AT&T 3430/3431 is a high-performance scalable software/hardware server with single or dual-Pentium™ processor power. The 3430 and the 3431 are the same, except for the processor: the 3430 uses the 60 MHz processor and the 3431 uses the 90 MHz processor.

The 3430/3431 is targeted for the AT&T UNIX SVR4 MP-RAS and Microsoft® Windows NT server operating environments, as well as SCO UNIX. The dual-Pentium AT&T 3430/3431, the first symmetric multiprocessing (SMP) Pentium system in the industry, has two closely coordinated microprocessors. Each processor has equal access to all other resources in the system and its own path to memory, video, I/O devices, and the Micro Channel bus. The Micro Channel architecture provides a data superhighway in comparison with competitors' single-lane data paths.

The AT&T 3430/3431 is ideal for customers who want time-to-market efficiency of a high-power computer from a company with considerable SMP architecture experience. Such environments include commercial workstation and development workstation. The AT&T 3430/3431 offers customers a powerful server at an affordable price.

The AT&T 3430/3431 is available with one or two Intel Pentium processors with 256 KB zero-wait state external cache memory. If ordered with one Pentium processor, the system can be expanded with the additional Pentium upgrade kit.

The AT&T 3430/3431 product includes Enhanced Micro Channel architecture, at least one Pentium processor board, one EDAC or parity SIMM memory board (no SIMM RAM installed), integrated 53C710 SCSI-II controller and dedicated upgrade socket for the AT&T 53C710 SCSI-II daughter card, 16-bit advanced VGA circuitry, local bus slot for AT&T Clarity II graphics adapter with 2 MB of video RAM, five 32-bit Micro Channel slots (one with video extension), and seven half-height drive bays.
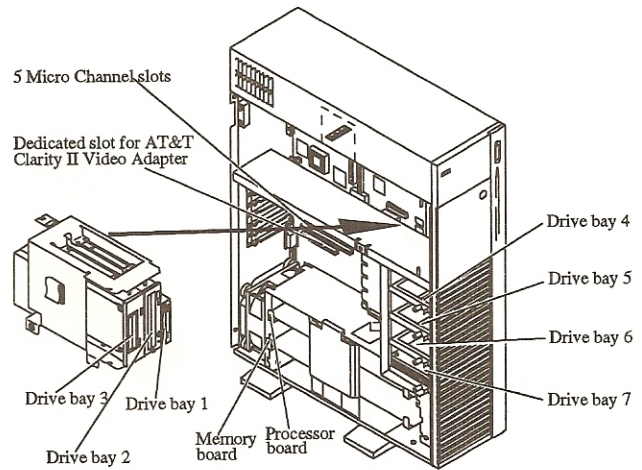
Every Unit Items/Available Models			
	3430-1000-80XX (Base-medialess)	3430-1010-80XX (Base-medialess)	3430-1002-80XX (Base-Windows NT Server, Flex)
Processor	1 Pentium - 60MHz upgradable to 2 processors	1 Pentium - 60MHz upgradable to 2 processors	1 Pentium - 60MHz upgradable to 2 processors
Architecture	Enhanced Micro Channel	Enhanced Micro Channel	Enhanced Micro Channel
Base RAM/Speed	0MB/70ns, EDAC memory board installed	0MB/70ns, Parity memory board installed	0MB/70ns, EDAC memory board installed
Max. RAM	256MB EDAC	512MB Parity	256MB EDAC
Cache	256KB	256KB	256KB
Advanced VGA	Not included	Not included	Not Included
Total Slots/ Sockets	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card
Available Slots	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card
Total Drive Bays	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal
Bays Available	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(0) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal
Flex Drive	Diskless	Diskless	(1) 3.5" 1.44MB
Hard Drive Controller	SCSI-II	SCSI-II	SCSI-II
Hard Drive	Diskless	Diskless	Diskless
Additional Features	n/a	n/a	MS Windows NT Server*, mouse
Keyboard	Not included	Not included	Not included
Ports	(2) RS-232-C 50 to 19,200 baud serial port; (1) Bi-directional parallel port; (1) PS/2 type keyboard; (1) PS/2 type mouse	(2) RS-232-C 50 to 19,200 baud serial port; (1) Bi-directional parallel port; (1) PS/2 type keyboard; (1) PS/2 type mouse	(2) RS-232-C 50 to 19,200 baud serial port; (1) Bi-directional parallel port; (1) PS/2 type keyboard; (1) PS/2 type mouse
Power Supply	380 watt	380 watt	380 watt
Required Items	EDAC memory required. May add additional features/ kits as options. Operating systems must be ordered separately.	Parity memory must be utilized. May add additional features/kits as options. Operating systems must be ordered separately.	EDAC memory & flex disk are required. Monitor, video & keyboard are optional.
Cabinet Dimensions	25.5" (64.77cm) H x 6.9" (17.51cm) W x 20" (50.8cm) D		
Base System Weight	46.4 - 66.4 lbs. (21.1 - 30.2kg)		

Every Unit Items/Available Models

	3430-1012-80XX (Base-Windows NT Server, Flex)	3430-2000-80XX (Base-medialess)	3430-2002-80XX (Base-Windows NT Server, Flex)
Processor	1 Pentium - 60MHz upgradable to 2 processors	1 Pentium - 90MHz upgradable to 2 processors	1 Pentium - 90MHz upgradable to 2 processors
Architecture	Enhanced Micro Channel	Enhanced Micro Channel	Enhanced Micro Channel
Base RAM/Speed	0MB/70ns, Parity memory board installed	0MB/70ns, EDAC memory board installed	0MB/70ns, EDAC memory board installed
Max. RAM	512MB Parity	256MB EDAC	256MB EDAC
Cache	256KB	256KB	256KB
Advanced VGA	Not included	Not included	Not included
Total Slots/Sockets	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card
Available Slots	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (0) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (1) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card	(2) Processor board slots; (5) 32-bit Micro Channel (one w/video extension); (0) Local Bus slot; (1) Socket for opt. AT&T SCSI-II daughter card
Total Drive Bays	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal
Bays Available	(0) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(1) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal	(0) 3.5" HH flex accessible (1) 3.5/5.25" HH flex accessible (1) 5.25" HH SCSI accessible (4) 3.5" HH SCSI internal
Flex Drive	(1) 3.5" 1.44MB	Diskless	(1) 3.5" 1.44MB
Hard Drive Controller	SCSI-II	SCSI-II	SCSI-II
Hard Drive	Diskless	Diskless	Diskless
Additional Features	MS Windows NT Server*, mouse	n/a	MS Windows NT Server*, mouse
Keyboard	Not included	Not included	Not included
Ports	(2) RS-232-C 50 to 19,200 baud serial port; (1) Bi-directional parallel port; (1) PS/2 type keyboard; (1) PS/2 type mouse	(2) RS-232-C 50 to 19,200 baud serial port; (1) Bi-directional parallel port; (1) PS/2 type keyboard; (1) PS/2 type mouse	(2) RS-232-C 50 to 19,200 baud serial port; (1) Bi-directional parallel port; (1) PS/2 type keyboard; (1) PS/2 type mouse
Power Supply	380 watt	380 watt	380 watt
Required Items	Parity memory & flex disk required. Monitor, video, & keyboard are optional.	EDAC memory required. May add additional features or kits as options. Operating systems must be ordered separately.	EDAC memory & flex disk required. Monitor, video, and keyboard are optional.
Cabinet Dimensions	25.5" (64.77cm) H x 6.9" (17.51cm) W x 20" (50.8cm) D		
Base System Weight	46.4 - 66.4 lbs. (21.1 - 30.2kg)		

*Operating System is pre-loaded on the system.

Internal View:

5 Micro Channel slots
Dedicated slot for AT&T Clarity II Video Adapter
Drive bay 4
Drive bay 5
Drive bay 6
Drive bay 7
Drive bay 3
Drive bay 1
Drive bay 2
Memory board
Processor board

Storage Devices

Description	Part Number	Description/Dependencies
3.5-inch, 1.44MB flex drives	3430-F400 (feature only)	Slimline drive supplied by Sony (Model MP-F17W) is intended to be the first flex drive in drive bay 1. The 3430/3431 does not come with a flex drive and requires either a 1.44MB or a 2.88MB drive.
3.5-inch, 1.44MB Flex Drive	3430-F401 3355-K401	Same as in 3430-F400 but adapted to fit the 5.25-inch form factor in drive bay 2.
3.5-inch, 2.88MB Flex Drive	3430-F405 (feature only)	Slimline drive adapted to the 3.5" form factor and supplied by Sony (Model MP-F40W) is intended to be the first flex drive in drive bay 1 (in place of 3430-F400). Compatible with the new IBM flex interface which supports 2.88MB diskettes. The 3430/3431 does not come with a flex drive and requires either a 1.44MB or a 2.88MB drive.
3.5-inch, 2.88MB Flex Drive (5.25" frame)	3430-F4063355-K406	Same as in 3430-F405 but adapted to fit the 5.25-inch form factor in drive bay 2 (in place of 3430-F401).
5.25-inch, 1.2MB Flex Drive	3430-F410 3350-K410	Can be installed in drive bay 2 only. Currently supplied by Teac (Model FD 55 GFR 213). Includes plug-in interface adapter necessary for compatibility with the system. (Adapter also available separately as 3350-K412 to accommodate customers who want to install their own 1.2MB flexible disk drive.)
3.5-inch, 2 GB HH SCSI Hard drive	3430-F336 3099-K336	Supplied by DEC. Can be installed in drive bays 4 through 7 and adapted to fit drive bay 3 when the maximum 5 hard drives are desired.
3.5-inch, 1.0 GB SCSI Hard drive	3430-F340 3350-K340	Supplied by Digital Equipment Corporation (Model DSP-3105). Can be installed in drive bays 4 through 7 and adapted to fit drive bay 3 when the maximum 5 hard drives are desired.