

Specification Summary: AM-8000 Business Server

The Alpha Microsystems™ AM-8000 is a high-performance computer server designed for a wide range of business applications. The server is configured in a desktop chassis, and contains dual high speed Athlon MP microprocessors. The AM-8000 provides serial and parallel I/O, two high performance wide Ultra 320 SCSI busses, Gigabit and Fast Ethernet communication ports, one paddle card bus (optionally two) for connecting up to 30 I/O cards (8 ports per I/O card), four DIMM memory slots, and optional UPS monitoring.



The following specifications are subject to change without notice.

GENERAL SPECIFICATIONS

Temperature/Humidity	60 to 90 degrees F (15.6 to 32.2 degrees C); 10 degrees C per hour maximum fluctuation; 20% to 80% humidity non-condensing
Power Requirements	United States: 115 VAC (90 to 132 VAC), 47 to 63Hz International: 230 VAC (180 to 264 VAC), 47 to 63Hz
Maximum Power Consumption	115 volts at 5 amps or 230 volts at 2.5 amps
Electromagnetic Interference	Complies with US FCC rules and regulations, Class B
System Dimensions	Height: 20.6" (52.2 cm) Width: 8.1" (20.5 cm) Depth: 18.6" (47.3 cm) Weight: Up to 70 lbs. (32 kg)
Enclosure Composition	Sheet metal and plastic
Additional Features	Clock/calendar with battery backup Console display monitor with diagnostic window Programmable interval timer AC power failure detect Security lock CMOS setup feature Optional UPS interface.

AM-8000 CENTRAL PROCESSING UNIT

Processor	Dual Athlon MP 2800+ (min) microprocessors
Memory Expansion	From 1 GB to 4GB, 3.5 GB usable
I/O Expansion Slots	Two 64-bit PCI slots and two 32-bit PCI slots
Integrated I/O	One floppy connector, supporting up to two floppy drives. Support for ATA-100/66/33 IDE and ATAPI devices Two 9-pin serial I/O ports One 25-pin SPP/ECP/EPP parallel I/O port PS/2 keyboard and mouse ports Two USB 2.0 ports and two front side USB headers Integrated PCI VGA controller

AM-8000 MULTIFUNCTION COPROCESSOR (AM-113-50)

Serial I/O Port Interface	Four on-board serial I/O ports (RJ-45 style connectors). One paddle card bus interface, supporting up to 15 AM-359 serial I/O paddle cards in an external enclosure.
Software Security Device	Includes support for one SSD.
Hardware timer	Yes
Uninterruptible power source monitor	Supports external interface for monitoring status of optional uninterruptible power source (UPS).
Optional Front Panel Interface	Yes

AM-359 EIGHT-PORT SERIAL I/O BOARD (EXTERNAL OPTION)

Number of ports	Eight RS-232 ports maximum
Interface connection	AM-349-50 and AM-349-20 interface pair used to attach I/O paddle cards to the AM-113-50 Multifunction Coprocessor
Characteristics	All asynchronous serial communication ports configurable for RS-232 only
Interface	RJ-45 8-wire connectors. For pinout signals, see <i>AM-8000 Computer Owner's Manual</i>
Supported Baud Rates:	50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600, 19200, 38400, 57600.
Stop Bit	Programmable
Word Length	Programmable
Parity	Programmable

PARALLEL PORT

Number of Ports	One 25-pin standard
Characteristics	SPP/ECP/EPP compatible
Interface	DB-25 connector: for DB-25 connector signals, see Appendix A in the <i>AM-8000 Computer Owner's Manual</i> .
Cable Length	Parallel printer cable should not exceed six feet

SCSI (SMALL COMPUTER SYSTEM INTERFACE) PORT

Physical Interface	Two Ultra 320 SCSI busses, one available externally.
Maximum Bus Length	3 feet external cable length without SCSI Bus Repeater, depending upon peripheral device configurations.
Maximum Number of Devices	Eight internal SCSI devices maximum, subject to mounting slots in the chassis.
Protocol Supported	Full Ultra 320 SCSI support, including support for connect and disconnect protocols.
Implementation	Single host only. Multiple host architecture not supported.

INTEGRATED LAN SUPPORT (ETHERNET)

Number of Ports	Two external RJ-45 connectors.
Speed	One Fast Ethernet interface (10/100 Mbps) One Gigabyte Ethernet interface (100/1000 Mbps)

STORAGE AND BACKUP

Hard Disk Drive

Consult the *SCSI Hard Disk Installation Guide* for specifications appropriate to your installation.

Maximum Number	Up to eight, depending upon other peripherals included
Physical Size	3.5"
Interface	Wide Ultra320-SCSI

3.5" Diskette Drive (Optional)

Physical Size	3.5"
Data Capacity	1.44MB
Diskettes	3.5", double-sided, double-density
Interface	Standard floppy interface contained on main CPU board.
Transfer Rate	500K bits/second

DVD-RAM Drive

Physical Size	5.25" half-high
Data Capacity	4.7 GB / side, DVD-R and DVD-RAM media
Supported Media Formats	DVD-RW, DVD-R, DVD-RAM, CD-RW, CD-R
Read Speed	32X (CD), 12X (DVD-R)
Write Speed	12X (CD-R), 8X (CD-RW), 2X (DVD)
Average Access Time	115 ms
Interface	ATAPI-5 or ATAPI-6

Streaming Tape Drive (Optional)

Physical Size	5.25" half-high
Data Capacity	4GB to 60G, depending upon model selected
Interface	SCSI, narrow or wide, depending upon model selected

CONSOLE DISPLAY

Type	15" flat screen, active matrix LCD, anti-glare
Compatibility	PC compatible, VGA
AC Power	100 - 240 VAC (auto switch), 50 - 60 Hz

CONSOLE INPUT

Keyboard	104 Keys, PS2 style
Mouse	Optical, PS2 style, two button and wheel

SOFTWARE

Standard AMOS 8.0 Software Release

- Operating System, AMOS: A multi-user, multi-tasking, timesharing monitor
- Multiple printer spoolers
- AlphaTCP TCP/IP networking software for Internet/intranet connectivity
- Parameterized command file processor
- Multi-pass macro assembler, M68
- Linkage editor, LNKLIT
- Symbolic debugger, AlphaFIX
- Object file librarian, LIBLIT
- Background task manager
- Object file patching utility, PATCH
- Indexed sequential access method data access package, ISAM
- Over 150 other utility programs
- AlphaBASIC and AlphaBASIC PLUS programming languages
- Screen oriented text editor, AlphaVUE
- Text formatter, TXTFMT

Embedded Windows XP

The underlying Microsoft Windows XP Embedded® software provides the integration of AMOS software with Windows software, printers, and networking functions.

Norton Ghost 2002

Used for system backup and emergency boot facilities.

Other software packages are available from your dealer.