# Symbion Series Workstation

# AXP164SX

The Choice 533MHz Alpha Powered 3D Workstation

## A New Generation in Alpha Powered Desktop 3D Workstations for Windows NT

Take a close look at the latest Symbion Series product for an unbelievable ultra-power desktop workstation at a PC price. The AXP164SX is powered by the 533MHz 64-bit Digital Alpha AXP 21164PC, a new version of the world's most powerful microprocessor using 64-bit superscalar, super-pipelined architecture. To supply this powerful compute engine with data, the Symbion AXP164SX features a high-performance two-level cache system. This includes a 16KB instruction and 8KB data cache and a 1MB on-board, synchronous RAM back-up cache that accesses the microprocessor with a 128-bit data path to main memory. The Symbion AXP164SX blazes through more than 2500 native business, multi-media, and desk-top-publishing applications. Products such as Pro/ENGINEER®, Pro/MECHANICA®, Pro/MANUFACTURE®, SolidWorks, MicroStation, EDS Unigraphics, and other popular CAD/CAM/CAE and 3D applications perform at unprecedented speeds in native mode under Windows NT.

The AXP164SX offers generous growth potential with four PCI

slots and two ISA slots and can be configured with up to 512MB of SDRAM memory and 54GB (full tower) of internal storage. Additional features include a 300 watt power supply, PCI 10/100 Base-TX Fast Ethernet interface, 64-bit PCI audio, hi-fidelity loudspeakers with microphone, and options for tape drives, devices, and many other popular expansion devices. The Symbion AXP164SX raises the mark for 3D desktop workstations by offering an exclusive set of quality features integrated specifically for technical and creative professionals using today's CAD/CAM/CAE, AEC, plant design, vis/sim, and animation applications.

## MaxGraphix™ 3D OpenGL Accelerators

For the demanding needs of high-performance 3D graphics applications, the Symbion AXP164SX is offered with a choice of MaxVision's MaxGraphix™ OpenGL accelerators. The feature-rich GLmax88M is designed using 3Dlabs' GLINT MX graphics processor and the GLINT Delta floating point processor. The card supports resolutions up to 1920 x 1080, double buffered, 16-bit color, high-speed 24-bit Z buffering, stenciling, fog/depth cueing, texture storage, trilinear mip-mapping, anti-aliasing and alpha blending. Providing superior graphics at a remarkably affordable price, the 3DmaxP2 introduces the next generation of affordable OpenGL accelerated graphics. The 3DmaxP2 is based on 3Dlabs' new PERMEDIA2 graphics processor and supports double-buffered 16-bit color at 1280 x 1024 with 16-bit Z buffering. The GLmax88M and 3DmaxP2 both support all standard Windows 3D programming interfaces, including OpenGL 1.1.

## Features & Specifications

***Motherboard & System***

**Processor–** 533MHz Alpha AXP 21164PC processor

**Chip Set –** Digital Semiconductor 21174 core logic chip set

**Main Memory -** 64MB to 512MB; SDRAM support in four 168-pin DIMM sockets

**Cache –** L1:16KB instruction cache & 8KB data cache on-chip; L2: 1MB on-board SRAM with 128-bit data path

**On-Board I/O –** Primary and secondary PCI EIDE ports; two 16550 UART serial ports, one ECP/EPP bi-directional parallel port, floppy, keyboard

**I/O Bus Slots –**Two 32-bit, two 64-bit BusMaster PCI and two 16-bit ISA slots

**BIOS –** Alpha BIOS

**Floppy Drive -** 1.44MB, 3.5 in. floppy drive

**Keyboard -** 104-key Windows NT 4.0 enhanced **Mouse** – 3-button PS/2 mouse

**Disk Bays –** Full tower: Six 5.25 in. external, one 3.5 in. external and three 3.5 in. internal; Mid-tower: Two 5.25 in. and three 3.5 in. external

***Graphics Options***

**2D Video Controller -** Matrox MGA Millennium II

**3D OpenGL Accelerators –** MaxGraphix GLmax88T, GLmax88M, & 3DmaxP2

***Physical and Environmental Characteristics***

**Dimensions –** Full-tower**:** 25.2 in. H x 7.5 in. W x 16.6 in. D (64 cm x 19 cm x 42.2 cm); Mid-tower: 16.7 in. H x 7.3 in. W x 16.75 in. D (42.4 cm x 18.5 cm x 42.5 cm)

**Ambient Temperature -** 50º- 100ºF (10º- 37.8ºC) **Humidity** - 20% to 80%

**Power Supply -** 300 watts (UL listed, CSA approved)

**Electrical Rating -** 3A max (0.5A typ) @ 115 VAC, 1.7A max (0.3A typ) @ 230 VAC, 50/60Hz

***Certifications and Approvals -*** FCC class A compliant, Windows NT 4.0 certified and PTC certified for Pro/ENGINEER®

***Hardware & Software Options***

**SCSI Controller -** 32-bit PCI Ultra SCSI controller

**Disk Drives -** 2GB - 9GB SCSI-3 Ultra-Wide or 2GB - 8GB EIDE

**Network Interface -** SMC EtherPower 10/100 PCI 32-Bit Fast Ethernet adapter, 10BaseT and 100BaseTX

**CD-ROM Drive -** 15X Fast SCSI-2 or 24X EIDE

**Sound Boards -** Creative Labs Soundblaster 16, AWE64, or Ensoniq AudioPCI

**Modem -** 56k internal data/fax modem

**Operating Systems -** Windows NT Workstation v4.0, Windows NT Server v4.0

**800-533-5805**

Expert Lifetime Support
Three-year Full Warranty
Next-day Replacement Parts

Certified for Pro/ENGINEER

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