

UP1000 Motherboard

User's Manual

Document UP1000-UM — Alpha Processor, Inc.

Overview

The UP1000 is a single-processor Alpha Slot B motherboard built around the 64-bit Alpha 21264 microprocessor and the AMD-751 System Controller, designed for Linux and Windows NT systems that need memory and I/O bandwidth well ahead of contemporary x86 workstation boards.

Processor & Cache

- One Alpha 21264 processor, Slot B module: 600MHz with 2MB L2 cache, or 700MHz with 4MB L2 cache
- 3.2GB/s sustained L2 cache bandwidth
- Integrated I²C bus for system management; on-module thermal sensor

Chipset & Memory

- AMD-751 System Controller, 100MHz 64-bit memory bus, 800MB/s peak memory bandwidth
- ALi M1543C South Bridge (peripheral + ISA interface)
- Three PC100 168-pin unbuffered DIMM sockets, 64MB–768MB SDRAM
- 2x AGP bus for graphics

Expansion & I/O

- Four 32-bit/33MHz PCI slots, two ISA slots
- Two Ultra DMA IDE ports, floppy controller
- Two serial ports (modem control), one parallel port, dual USB
- PS/2 keyboard and mouse, 2MB flash ROM

Firmware & Software

Ships with AlphaBIOS v5.70 and SRM Console (beta). Supports Linux for Alpha (all major distributions) and Windows NT 4.0 (Alpha edition).

Safety & Handling

Disconnect power before installing or removing any component. The Alpha 21264 Slot B module and DIMMs are static-sensitive — use an anti-static wrist strap and handle boards by their edges.

Warranty & Support

Standard warranty terms are available from your reseller or systems vendor. For technical support, call (978) 318-1181 or see the Support section of this site.