

## Overview

The 1stMainboard SD11 supports the next generation AMD Athlon processor at impressive speeds of 500/550/600/650 MHz, and eventually further. Equipped with the AMD Athlon system bus that speeds effectively reach a staggering 200 MHz. The ATX sized 1stMainboard SD11 utilizes AMD's enhanced 3DNow!™ technology, bringing unprecedented levels of power and performance to 3D graphics applications. Furthermore, the AMD Athlon processor offers high-performance cache technology, including 128KB of on-chip level one (L1) cache and a programmable, high-performance backside L2 cache interface.

Based around the advanced architecture of a chipset comprising of the AMD-751™ system controller for the North Bridge, and the VIA Super South (686A) for the South Bridge, the 1stMainboard SD11 benefits from superb levels of stability. With support for UDMA 66 and its high-speed interface, data transfer speeds and data integrity are significantly enhanced. This is especially the case for long sequential transfers that are typically associated with audio/visual applications.

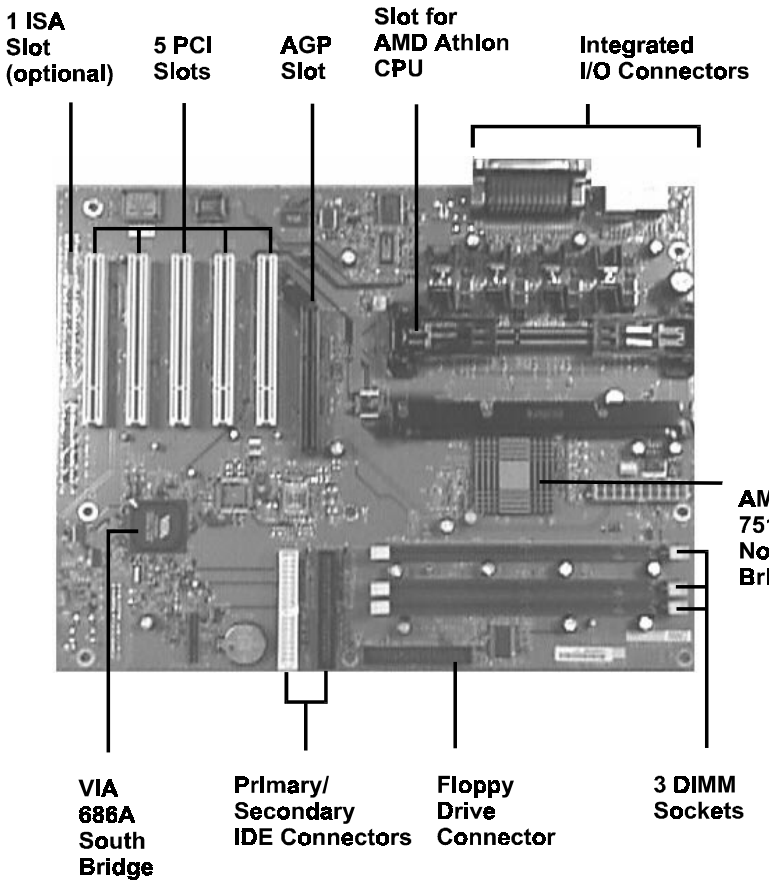
The 1stMainboard SD11 has three DIMMs, for up to 768 MB SDRAM, use PC100 SDRAM technology and are equipped with ECC memory support. With one AGP, five PCI and one ISA slot (optional) there is plenty of room for expansion. In addition, the 1stMainboard SD11 is equipped with two dual channeled enhanced PCI bus master IDE connectors. Standard I/O connections include a serial port, parallel port, PS/2 mouse and keyboard connector and two USB connectors.

## Package Checklist

If you discover any item below was damaged or lost, please contact your vendor.

- The mainboard
- This user manual
- One floppy disk drive cable
- One HDD cable
- One I/O Shading
- Software utilities

## The SD11 Mainboard



## Main Features

### ■ Easy Installation

BIOS with support for Plug and Play, auto detection of IDE hard drives, LS-120 drives, IDE ZIP drives, Windows 95, Windows 98/98 SE, Windows NT, and OS/2.

### ■ Leading Edge Chipset

AMD-751™ chip includes a CPU interface controller, integrated memory controller, concurrent PCI (PCI v.2.0, 2.1, 2.2), 3D video. VIA 686A™ chip includes integrated power management unit, IDE and ISA bus controller.

### ■ Flexible Processor Support

Onboard CPU Slot supports leading-edge AMD Athlon processors: 500/550/600/650 MHz.

### ■ Various External Bus and CPU/Bus Frequency Ratio Support

The board comes with AMI BIOS that automatically detects Bus and CPU/Bus Frequency Ratio you use.

### ■ Versatile Main Memory Support

Accepts up to 768MB RAM using three DIMMs of 8, 16, 32, 64, 128, 256MB with support for lightning-fast SDRAM (100MHz).

### ■ ISA and PCI Expansion Slots

Five 32-bit PCI Bus expansion slots and one optional 16-bit ISA Bus and provide the room to install a full range of add-on cards.

### ■ Enhanced PCI Bus Master IDE Controller with Ultra DMA/33 and Ultra DMA/66 Support

Integrated Enhanced PCI Bus Master IDE controller features two dual-channel connectors that accept up to four Enhanced IDE devices, including CD-ROM and Tape Backup Drives, as well as Hard Disk Drives supporting the new Ultra DMA/66 protocol. Standard PIO Mode 3, PIO Mode 4, DMA Mode 2, DMA Mode 4 devices are also supported.

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**■ Convenient Rear Panel USB Connection Support**

Two USB ports integrated in the rear I/O panel allow convenient and high-speed Plug and Play connections to the growing number of USB compliant peripheral devices on the market.

**■ Super Multi Input/Output (I/O) Support**

Integrated Plug and Play multi-I/O chipset features one high-speed UART 16550 compatible serial ports, one EPP/ECP capable parallel port, and one FDD connector.

**■ Optimized AMD Athlon® Processor Performance**

The mainboard utilizes the advanced features of the AMD-751™ system controller for the North Bridge and the VIA Super South (686A) for the South Bridge to optimize the unrivaled performance of the AMD Athlon® processor with 3D/NOW® technology allow you to enjoy a richer video, audio, digital imaging and communications experience from the latest generation of multimedia software.

**■ Onboard Accelerated Graphics Port (AGP)**

The motherboard is installed one 32-bit AGP bus with a dedicated 66MHz/133MHz path from the graphics card to the system memory (in 2x mode) offering much greater bandwidth than the 32-bit PCI bus does. The board is fully compliant with the AGP 1.0 specification. AGP enabled 3D graphics cards can directly access main memory across this fast path instead of using local memory. To make use of the improved AGP performance, the motherboard should be installed with SDRAM type memory and the VGA card and drivers should also be fully AGP compliant. Using Microsoft's Windows 98 and Windows 2000 which implement DirectDraw will allow the system to take full use of AGP's benefits without the need to install additional drivers.

## ACPI Ready

This mainboard fully implements the new ACPI (Advanced Configuration and Power Interface) 1.0 Hardware and BIOS requirement. If you install ACPI aware operating system, such as Windows 98, you fully utilized the power saving under ACPI.

It is compatible with all other none ACPI operating systems. If you want to setup ACPI feature under Windows 98, please follow the description below: Run Windows 98 setup by using **setup/p j** on the command line for installing Windows 98 with the ACPI control feature.

If you type **setup** without the parameter **/p j**, Windows 98 will be installed as APM, PnP mode, no ACPI will be used.

For more detail information, please visit the web site of Microsoft. Its address is: [www.microsoft.com/hwtest/](http://www.microsoft.com/hwtest/).

## CD-Pro Software Utilities

This mainboard came with software utilities for fully supporting your system performance. The software tools are suitable for Windows 95/98/98 SE/NT. These tools are necessary for your operating system to recognize some new chipset that equipped on this mainboard.

To install this software utilities are very easy. Right after your operating system is installed, start to run the CD-Pro immediately. It will detect the chipset on your mainboard automatically; then install the patch files contained in the CD-Pro for notifying your operating system about the chipset information. Please also refer to Chapter 4, **Windows 98/98 SE FAQs**, for more details.