

ITEM LIST CHECKUP

- Mainboard
- Support CD
- User's Manual
- Bundled Bonus Pack CD
- Bundled Bonus Pack Manual
- Temperature Sensor Cable
- ATA66/100 IDE Cable
- RS232 Cable
- FDD Cable

CHAPTER 1

INTRODUCTION

- This chapter briefly introduces the characteristics of the mainboards. It includes the information regarding the chipset, CPU types, built-in functions and layout. Users will have more ideas about mainboards after reading this chapter.

This chapter contains the following topics :

1-1 MAINBOARD SPECIFICATION

1-2 MAINBOARD LAYOUT

1-3 CHIPSET DIAGRAM

1-1 MAINBOARD SPECIFICATION

1-1.1 PROCESSOR

- Supporting Socket A-based AMD Athlon™/Duron™/Athlon 4™ processors.
- Supporting 200MHz & 266MHz FSB bus.
- Supporting Processor VID(voltage ID) and FID(Frequency ID) auto detection.

1-1.2 CHIPSET

- North Bridge: VIA VT8366A KT-266A.
- South Bridge: VIA VT8233.
- LPC I/O ITE 8705.

1-1.3 AWARD BIOS V6.0 SUPPORTING

- Plug & Play V1.0.
- Flash Memory for easy upgrade.
- Year 2000 compliant.
- BIOS writing protection.
- SmartDOC Anti-Burn shield.

1-1.4 SOUND CONTROLLER

- SoundBlaster Pro Hardware and Direct Sound Ready AC97 Digital Audio Controller with Codec onboard.

1-1.5 POWER MANAGEMENT

- ACPI 1.0 compliant (Advanced Configuration and Power Interface).
- APM V1.2 compliant (legacy power management).
- Supporting ACPI suspend STR mode (Suspend To DRAM) and POS mode (Power On Suspend).
- System event monitoring with two event classes.
- Supporting PS/2 Keyboard & Mouse power on.
- Supporting Wake On LAN (WOL) & Wake On Modem.
- Supporting real time clock (RTC) with date alarm, month alarm, and century field.
- USB boot-up Function.

1-1.6 FULL FEATURED ACCELERATED GRAPHICS PORTS (AGP) CONTROLLER

- AGP v2.0 compliant.
- Supports Side Band Addressing(SBA) mode (non-multiplexed address / data).
- Supporting 66MHz 1x, 2x, and 4x modes for AD and SBA signaling.

1-1.7 MULTI-I/O FUNCTION

- Two UltraDMA-33/66/100 Master Mode PCI EIDE ports.
- Two UARTs for complete Serial Ports.
- One dedicated IR connector:
 - At third serial port dedicated to IR function either through the two complete serial ports or the third dedicated port Infrared-IrDA (HPSIR) and ASK(Amplitude Shift Keyed) IR.
- Multi-mode parallel connector supporting:
 - Standard mode, ECP and EPP.
- Floppy Disk connector supporting:
 - One FDDs with drive swap function.
- Universal Serial Bus connector supporting:
 - USB v1.1 and Intel Universal HCI v1.1 compatible.
 - 2 built-in USB connectors, in addition to one internal USB header which requires a USB cable to support 2 more optional USB ports.
- PS/2 keyboard connector.
- PS/2 Mouse connector.

1-1.8 EXPANSION SLOTS

- Five PCI bus Master slots.
- One CNR slot.
- One AGP PRO 4x mode slot.
- Three 184-pin DIMM slots.
- One SCR (Smart Card Reader) slot.

1-1.9 ADVANCED HIGH PERFORMANCE SDR/DDR DRAM CONTROLLER

- Supporting memory size up to 3GB.
- Supporting 184-pin DDR SDRAM type only.
- Supporting PC1600 and PC2100 DDR SDRAM.

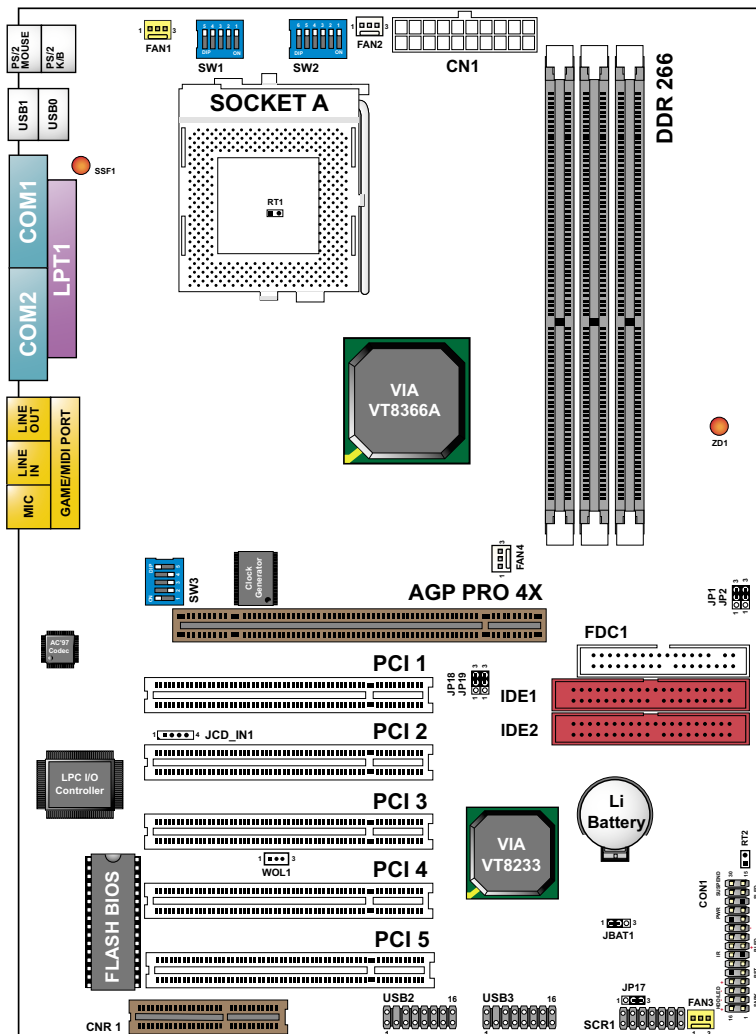
1-1.10 FORM FACTOR

- ATX form factor, 4- layer PCB.
- Mainboard size 22.0cm x 30.5cm.

1-1.11 HARDWARE MONITOR

- Programmable control, status to provide, monitoring and alarm for flexible desktop management (software include).
- 5 positive voltage statuses monitoring.
- 2 temperatures statuses monitoring.
- 2 Fan-speeds statuses monitoring.

1-2 MAINBOARD LAYOUT



Using non-compliant memory with higher bus clock (over clocking) may severely compromise the integrity of system.

1-3 CHIPSET DIAGRAM

- The VT8366A and VT8233 chipset is a high performance, cost-effective and energy efficient system controller for the implementation of AGP / PCI / ISA desktop personal computer system based on 64-bit Socket-A (AMD Athlon) processors.

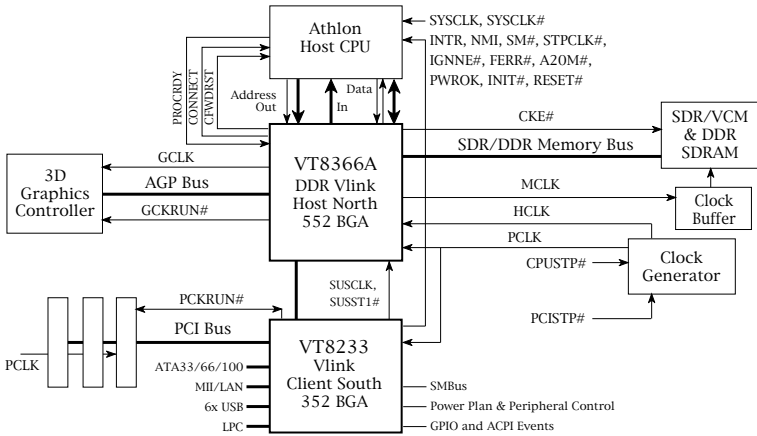


Diagram of Apollo Pro266A System Block Using the VT8233 V-Link South Bridge