

## ITEM LIST CHECKUP

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- ☒ Mainboard
- ☒ Support CD
- ☒ User's Manual
- ☒ Bundled Bonus Pack CD
- ☒ Bundled Bonus Pack Manual
- ☐ Temperature Sensor Cable (Optional)
- ☒ ATA66/100/133 IDE Cable
- ☐ RS232 Cable
- ☒ FDD Cable
- ☒ USB Cable (Optional)



# *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 AMD Athlon™ Thunderbird processor up to 1.5GHz or above.
- Supporting AMD Duron™ processor up to 1.2GHz or above.
- Supporting 200MHz & 266MHz FSB bus.
- Supporting Processor VID(voltage ID) and FID(Frequency ID) auto detection.
- Supporting Athlon™ XP Processors.

### **1-1.2 Chipset**

- VIA KT333 DDR V-Link Host North Bridge.
- VIA VT8233A V-Link Client South Bridge.
- ITE 8705 LPC I/O.

### **1-1.3 AWARD BIOS V6.0 Supporting**

- Plug & Play V1.0.
- Flash Memory for easy upgrade.
- Year 2000 compliant.
- BIOS writing protection.
- TrueBlue 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 POS mode (Power On Suspend).
- System event monitoring with two event classes.
- Supporting Wake On LAN (WOL) & Wake On Ring.
- Supporting Real Time Clock (RTC) with date alarm, month alarm, and century field.
- USB wake up from S3 function.



### **1-1.6 Full Featured Accelerated Graphic Port (AGP) Controller**

- AGP v2.0 compliant.
- Supporting 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-33/66/100/133 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 FDD 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 4x mode slot.
- Three 184-pin DIMM slots.

### **1-1.9 Advanced High Performance DDR DRAM Controller**

- Supporting memory size up to 3GB.
- Supporting 184-pin DDR SDRAM type only.
- Supporting PC1600, PC2100 and PC2700 DDR SDRAM.

### **1-1.10 Form Factor**

- ATX form factor, 4- layer PCB.
- Mainboard size 22.5cm x 30.5cm.

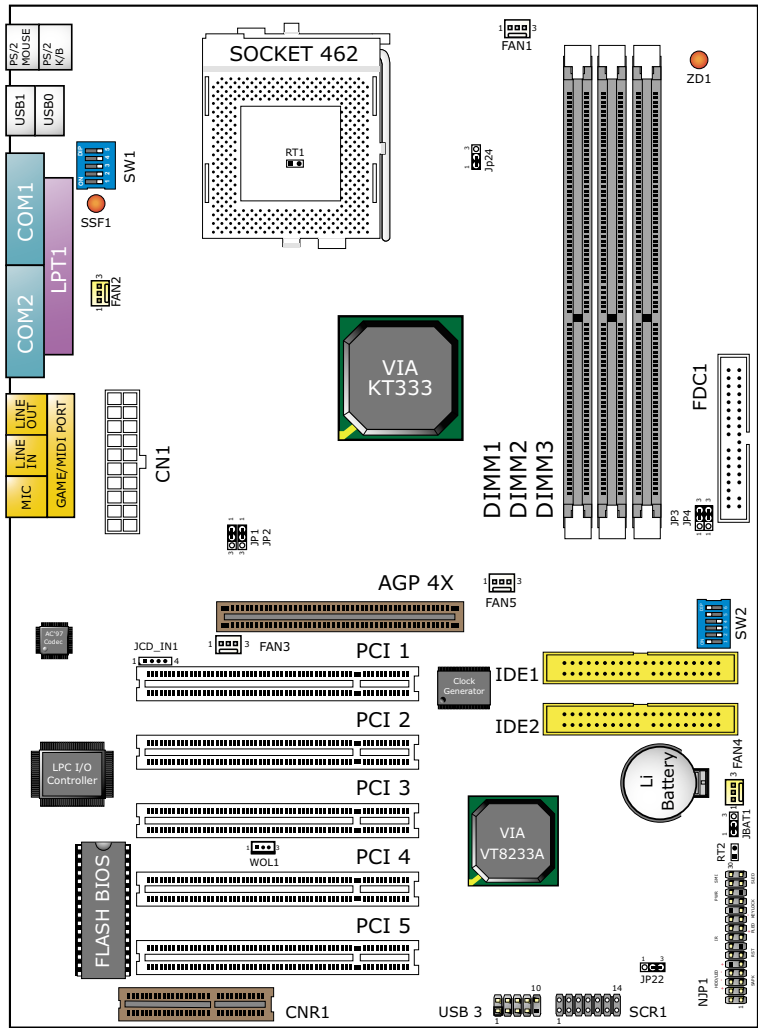


### **1-1.11 Hardware Monitoring**

- 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 (overclocking) may severely compromise the integrity of system.



### 1-3 Chipset Diagram

- The KT333 and VT8233A chipset is a high performance, cost-effective and energy efficient system controller for the implementation of AGP / PCI desktop personal computer system based on 64-bit Socket-A (AMD Athlon) processors.

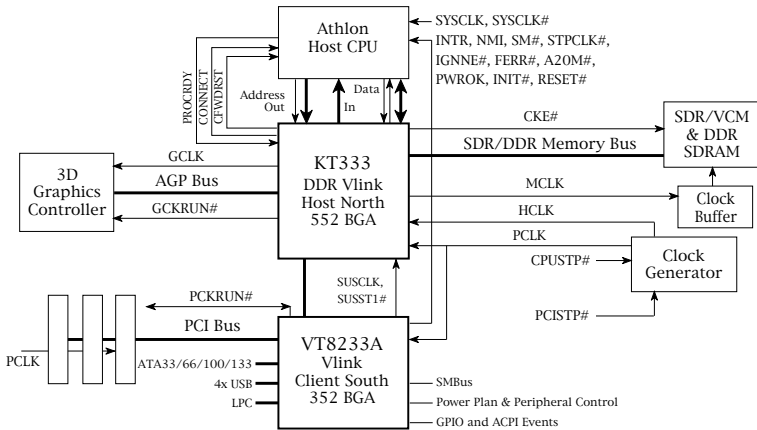


Diagram of Apollo KT333 System Block Using the VT8233A V-Link South Bridge