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# SECTION 1.

## PRODUCT INFORMATION

Thanks for purchasing BXA Pentium II mainboard.

This user' s manual contains all the information and features that show you how to use the BXA mainboard. Please take a moment to familiarize yourself with the design and organization of this manual.

### 1-1 Manual Features

This manual is divided into the following four sections:

#### **Section 1: Product Information**

A brief overview of what comes in the mainboard package, the mainboard layout and the specification it appears.

#### **Section 2: Hardware Installation**

Tell you the usage of the mainboard jumpers and the connectors.

#### **Section 3: CMOS Setup Utility**

A summary of the mainboard CMOS (BIOS) Setting.

#### **Section 4: BIOS/Software Utility**

Introduction of some useful mainboard BIOS/Software utility.

### 1-2 Package Check List

This BXA mainboard package contains the following items. Please inspect the package contents and confirm that everything is there. If anything is missing or damaged, call your vendor for instructions before operating.

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The package includes:

- One BXA Mainboard
- One Pentium II Retention Module
- One Floppy Interface Cable
- One IDE Interface Cable
- One CD Title including Bus Master IDE Driver and Utilities
- One User' s Manual

## 1-3 Mainboard Specification

<b>Form Factor</b>	● ATX form factor
<b>Board Size</b>	● 30.48 cm x 19 cm
<b>CPU</b>	● Supports Pentium II CPUs 233 ~ 450 MHz
<b>System Memory</b>	● DIMM 168-pin x 3 , SDRAM maximum 768MB ● Supports 64M-bit SDRAM technology
<b>Chipset</b>	● Intel 440BX AGP Chipset
<b>System Bus/FSB</b>	● 66/100MHz ● 75/83.3/112/124/133MHz (Available for over-clocking)
<b>Expansion Slots</b>	● 1 x AGP bus ● 2 x ISA bus ● 5 x PCI bus with Bus master mode
<b>Serial Port</b>	● Two serial ports UART 16C550 compatible ● Sets serial port 2 to operate in normal mode , IrDA or ASKIR
<b>Parallel Port</b>	One parallel port supports : ● SPP-standard parallel port ● EPP-enhanced parallel port ● ECP-extended capabilities port
<b>Floppy Interface</b>	Supports drives inches/format with:

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	<ul style="list-style-type: none"><li>● 3.5 inches–720KB/1.44MB/2.88MB</li><li>● 5.25 inches–360KB/1.2MB</li></ul>
<b>IDE Interface</b>	<ul style="list-style-type: none"><li>● Dual PCI IDE interface support up to 4 x IDE HDD or CDROM</li><li>● Supports PIO mode 4 , DMA mode 2 and Ultra DMA 33</li></ul>
<b>USB Interface</b>	<ul style="list-style-type: none"><li>● Two USB ports supported</li><li>● USB legacy keyboard function supported</li></ul>
<b>PS/2 Mouse</b>	<ul style="list-style-type: none"><li>● PS/2 mouse supported by connector onboard</li></ul>
<b>Keyboard</b>	<ul style="list-style-type: none"><li>● PS/2 keyboard by connector onboard</li></ul>
<b>Fuse</b>	<ul style="list-style-type: none"><li>● Supports recoverable fuse for USB and KB/Mouse</li></ul>
<b>RTC and Battery</b>	<ul style="list-style-type: none"><li>● RTC build in chipset (south bridge PIIX4)</li><li>● Lithium (CR-2032) battery</li></ul>
<b>Wake Up Function</b>	<ul style="list-style-type: none"><li>● Modem ring wake up</li><li>● LAN wake up</li><li>● RTC Alarm wake up</li></ul>
<b>Synchronous Switching Regulator</b>	<ul style="list-style-type: none"><li>● High efficient synchronous switching regulator for CPU core voltage from 2.0V to 3.5V</li><li>● Supports over-voltage / over-current protection function</li></ul>
<b>Hardware Monitor (Optional)</b>	<ul style="list-style-type: none"><li>● Fan speed monitor–Two fan connectors , warning when CPU or Housing fan is malfunction</li><li>● Voltage monitor–Warning when system voltage (5V,12V,3.3V,VCORE) are abnormal</li><li>● CPU and system thermal monitor–Warning when CPU and system temperature is higher than a predefined value</li></ul>
<b>Power Connector</b>	<ul style="list-style-type: none"><li>● Supports ATX(20-pin) power connector</li></ul>
<b>Power On Function</b>	<ul style="list-style-type: none"><li>● Panel switch power on</li><li>● Keyboard power on (optional)</li></ul>
<b>BIOS</b>	<ul style="list-style-type: none"><li>● Award BIOS</li><li>● Year 2000 Compliance</li></ul>

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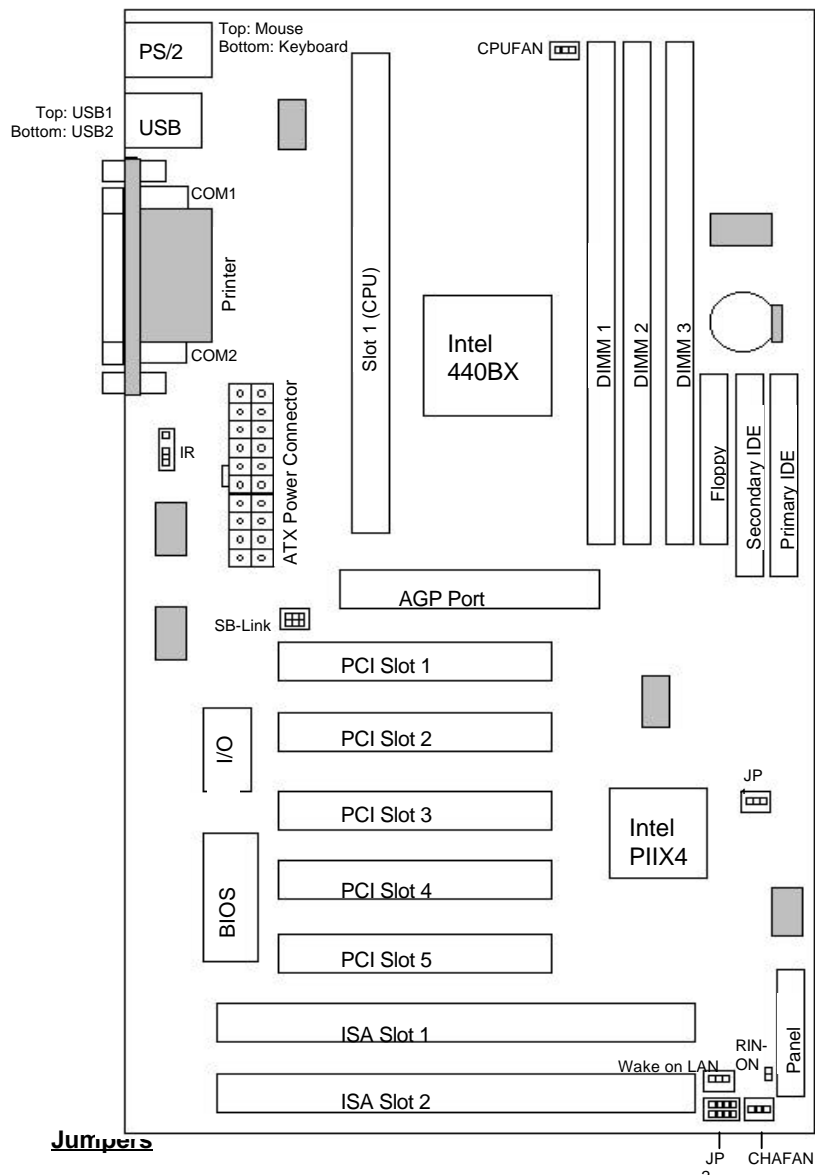
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	<ul style="list-style-type: none"><li>● PCI 2.1 Compliance</li><li>● PnP BIOS v1.0a Compliance</li><li>● APM v1.2 Compliance</li><li>● DMI 2.0 compliance</li><li>● Flash/Upgrade BIOS protection</li><li>● Supports ACPI (Advanced Configuration and Power Interface) and OS Directed Power Management</li><li>● Supports SOFT power</li><li>● Virus warning supported</li><li>● Floppy drive swapping function supported</li></ul>
<b>LED Indicator</b>	<ul style="list-style-type: none"><li>● System power LED</li><li>● HDD activity LED</li></ul>
<b>SB-Link Connector (Optional)</b>	<ul style="list-style-type: none"><li>● Supports Creative PCI sound card</li></ul>

### 1-4 Mainboard Layout

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|-------------------|---|
| 1. JP1            | Clear CMOS (Real Time Clock)                              |
| 2. JP2            | CPU Clock Ratio & CPU Type                                |
| 3. JP3 (Optional) | Power On Mode (Keyboard Power On / Panel Switch Power On) |

### Expansion Sockets

- |           |                             |
|-----------|-----------------------------|
| 1. DIMM 1 | Support 168-pin DIMM Memory |
| 2. DIMM 2 | Support 168-pin DIMM Memory |
| 3. DIMM 3 | Support 168-pin DIMM Memory |

### Expansion Slots

- |                         |                                      |
|-------------------------|--------------------------------------|
| 1. CPU                  | Slot 1 for supporting Pentium II CPU |
| 2. ISA Slot 1 & Slot 2  | 16-bit ISA Bus Expansion Slot        |
| 3. PCI Slot 1 to Slot 5 | 32-bit PCI Bus Expansion Slot        |

### Connectors

- |                        |   |
|------------------------|---|
| 1. PS/2 KB             | PS/2 Keyboard Connector (6-pin female)                    |
| 2. PS/2 Mouse          | PS/2 Mouse Connector (6-pin female)                       |
| 3. USB                 | Universal Serial Bus Port 1 and Port 2 (two 4-pin female) |
| 4. COM1/COM2           | Serial Port 1 / Serial Port 2 (two 9-pin female)          |
| 5. PRINTER             | Printer (Parallel) Port Connector (25-pin female)         |
| 6. ATX POWER           | ATX Mainboard Power Connector (20-pin block)              |
| 7. CPUFAN              | Pentium II CPU Fan Connector (3 pins)                     |
| 8. CHAFAN              | Chassis Fan Connector (3 pins)                            |
| 9. Floppy              | Floppy Drive Connector (34 pins)                          |
| 10. Primary IDE        | Primary IDE Connector (40 pins)                           |
| 11. Secondary IDE      | Secondary IDE Connector (40 pins)                         |
| 12. IR                 | Infrared Port Connector (5 pins)                          |
| 13. RIN-ON             | Internal Modem Ring-On                                    |
| 14. SB-LINK (Optional) | Creative PCI Sound Card Link                              |
| 15. Panel:             |   |

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- **PWR LED** ATX Power LED Connector (3 pins)
- **KBLCK** Keyboard Lock Switch Connector (2 pins)
- **SLP** Suspend Switch Connector (2 pins)
- **SPEAKER** Chassis Speaker Connector (4 pins)
- **GRN LED** Green Status LED Connector (3 pins)
- **HDD LED** HDD LED Connector (4 pins)
- **RESET** Reset Switch Connector (2 pins)
- **PWR ON** ATX Power Switch Connector (2 pins)