

# Overview

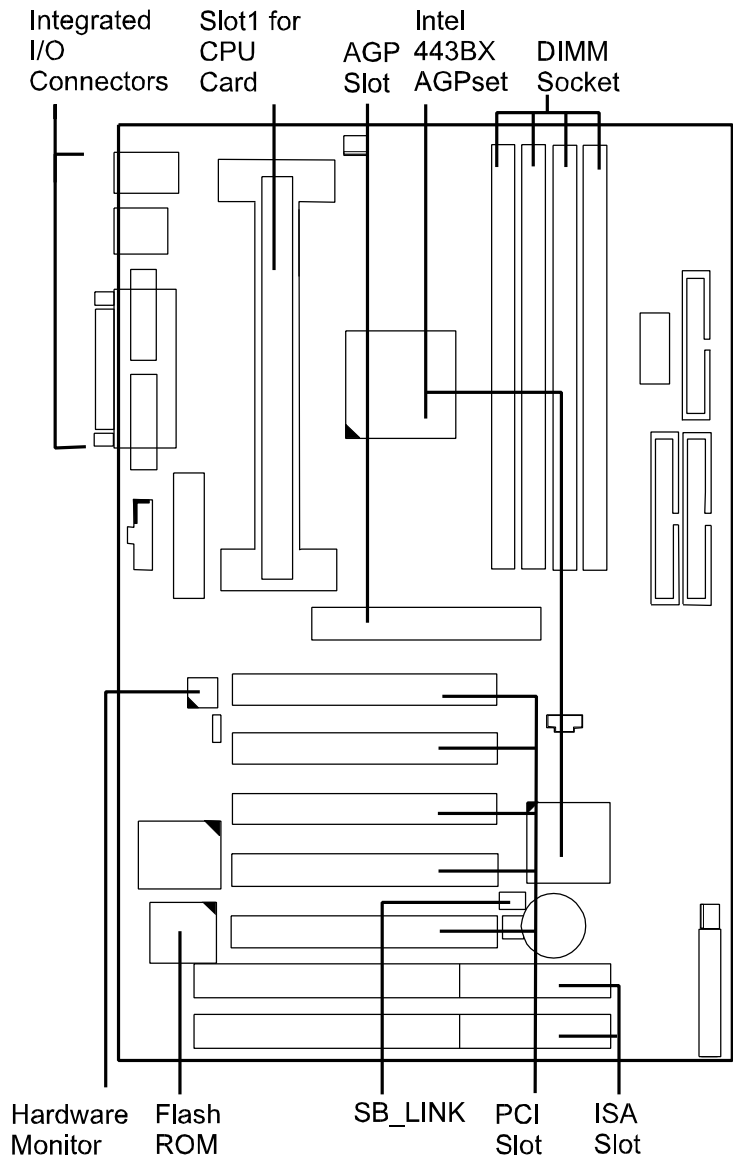
Based on the advanced [Intel 440BX AGPset](#), the VB-601 combines blistering [Pentium II](#) processor performance with support for the new [Accelerated Graphics Port \(AGP\)](#) interface that provides a dedicated path for memory to deliver faster system performance and arcade-quality 3D graphics. Also, it accepts two host bus frequencies, 66MHz and 100MHz, to run a range of [Intel Pentium II and Celeron processors](#). Compliant with the [Microsoft PC'97](#) standard at both the hardware and BIOS levels, the VB-601 comes with support for [ISMP](#) which continuously checks the thermal and voltage status of your system changes where necessary and reports any discrepancies to a network administrator. The VB-601 reduces the total cost of ownership with support for [DMI \(Desktop Management Interface\)](#) and manufacturing optional [Intel LANDesk Client Manager \(LDCM\)](#) software which allows for optimized system manageability across a network. For the most up-to-date information about your motherboard and the latest FAQs and BIOS updates, visit FIC Online at [www.fic.com.tw](http://www.fic.com.tw).

## Package Checklist

Please check that your package contains all the items listed below. If you discover any item is damaged or missing, please contact your vendor.

- n [The VB-601 motherboard](#)
- n [This user manual](#)
- n [One IDE device cable](#)
- n [One floppy disk drive cable](#)
- n [Retention Module](#)
- n [Software Utilities](#)

**The VB-601 Motherboard**



## Main Features

- n [Easy Installation](#)  
BIOS with support for Plug and Play, auto detection of IDE hard drives, LS-120 drives, MS Windows 95, Windows 98, Windows NT, and OS/2.
- n [Flexible Processor Support](#)  
Onboard 242-pin Slot1 supports leading-edge processors: Intel Pentium II , and Celeron 233/266/300/333/350/400/450MHz.
- n [Leading Edge Chipset](#)  
Intel 440BX AGPset includes a CPU interface controller, integrated SDRAM controller, synchronous ISA bus controller, integrated power management unit, concurrent PCI (PCI 2.0 and 2.1), and USB.
- n [Versatile Main Memory Support](#)  
Accepts up to 1GB DRAM in four banks by using of 8, 16, 32, 64, 128, 256MB with support for SDRAM DIMMs.
- n [Onboard Accelerated Graphics Port \(AGP\)](#)  
One 32-bit AGP slot supports 1x/2x AGP VGA cards for superior 3D video performance with transfer speeds up to 264MB/second under 1x AGP transfer mode and up to 528MB/second under 2x AGP transfer mode.
- n [Super Multi I/O](#)  
Integrated W83977TF-AW or W83977EF-AW multi-I/O chip provides keyboard/mouse wake-on capability and two UART 16550 compatible serial ports, one EPP/ECP capable parallel port, and one FDD connector.
- n [Wake-On-LAN Support](#)  
Onboard WOL connector allows remote management in a simpler and convenient control to LAN-based networks.
- n [Advanced Hardware Monitoring](#)  
This board may equipped either W83781D or W83782D for the detection of the CPU voltage to achieve a more stable system performance.  
W83782D also supports: two-fan speed, power supply voltage, system temperatures monitoring; and the CPU temperature reporting to lower the system overheating problem.  
W83782D provides both ISA and I<sup>2</sup>C serial bus interface and selectable address setting for application of up to eight devices.

- n [LDCM Software Support \(manufacturing optional\)](#)  
Intel LANDesk Client Manager is a Desktop Management Interface (DMI)-compliant application for local and network management of desktop client systems. The application reduces the number of help desk calls by supplying the user with self diagnostics such as a PC health meter and local alert for potential problems.
- n [SB-LINK for the Audio Card with PCI Bus](#)  
The 2x3 SB-LINK header accepts the Creative CT4600 series PCI audio cards with PCI solution to migrate the legacy Sound Blaster compatible audio to the PCI bus.
- n [Optimized Intel Pentium II Processor Performance](#)  
The motherboard utilizes the advanced features of the Intel 443BX AGPset to optimize the unrivaled performance of the Intel Pentium II processor, providing users with a much richer video, audio, digital imaging and communications experience from multimedia software.
- n [Optional CPU Thermal Monitoring Alert \(Available on the Deschutes CPU\)](#)  
A special heat sensor monitors the CPU temperature to make sure that the system is operating at a safe heat level. If the temperature is too high, the sensor automatically generates an SMI (System Management Interrupt) to slow down the CPU clock frequency. CPU utilization is restored to normal levels when the temperature returns to a safe level.
- n [Optional System Over-Voltage Report](#)  
System voltage levels are monitored. It warns you that the CPU is overheating, if LDCM is installed. The monitored range for system voltage is -12V, -5V, +12V, +5V, +3.3V, CPU core voltage  $\pm 10\%$ . This board does not provide onboard 3.3V support; therefore, your ATX power supply must provide 3.3V voltage.

## ACPI Ready

This motherboard 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. To install Windows 98 with the ACPI control, please read Page 53, **Setup ACPI Under Windows 98** for more information.

