1 Introduction

The LPM30 is an integrated, low-profile, LPX system board which allows you to create a multimedia system without any add-in cards or IRQ/DMA hassles. The LPM30 features VESA Localbus architecture, a Mode 3 IDE controller, 16-bit Sound Blaster compatible sound, and 64-bit graphics. The Micronics LPM30 system board represents Micronics' third generation of VESA Local Bus system boards and makes an excellent foundation for an advanced personal computer or workstation.
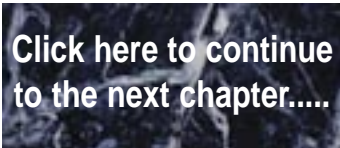
Micronics is a forerunner in VESA Localbus technology. The VESA Localbus Architecture provides high performance for Graphical User Interfaces (GUIs) and peripherals that perform high speed data transfers, such as disks and multimedia.

The LPM30 is also a **"Green Board"** which means it adheres to the Environmental Protection Agency's strict Energy Star efficiency guidelines. **The Green features are not available when a DX4-100MHz is installed.** See Chapter 4 for information and instructions on how to set up the "Green Section" of the BIOS.

Features

The LPM30 includes the following features:

- ⊛ LPX form factor system board.

- ⊛ Micronics' X30 chipset with an on-chip external level 2 cache controller.

- ⊛ One VL slot built onto the system board. Slot will accommodate a riser card which supports up to one VESA and four ISA peripheral cards.

- ⊛ On-board VESA Localbus video adapter, using the 64-bit ATI *mach64* graphics accelerator with 1MB of VRAM (2MB optional).

- ⊛ On-board 16-bit sound controller.

- ⊛ On-board feature connectors accept:
  14,400 Faxmodem module (optional).
  Ethernet network adapter module (optional).
  3.3V and 4.0V power modules for low voltage CPU's.

- ⊛ Accepts up to 256K of external cache.

- ⊛ On-board Localbus IDE controller.

- ⊛ Floppy controller (supports 2.88MB, 1.44MB, 1.2MB, 720K, and 360K floppy drive).

- ⊛ Two high speed 16550 compatible serial ports.

- ⊛ Bi-directional parallel port which is EPP and ECP compatible.

- ⊛ Battery-backed real-time clock.

- ⊛ Supports the following processors in the CPU ZIF socket:

  - 486SX2, 50MHz
  - 486DX, 33MHz
  - 486DX2, 50 or 66MHz
  - 486DX4, 75 or 100MHz
  - Cyrix DX2/80 or DX/40
  - AMD DX40, DX2/80, or DX4/100