



LPX30WB VL-Bus System Board Manual

Document Number: 06-00226-01, Rev. 3A
February 1995
221 Warren Ave., Fremont, CA 94539-7085

Copyright Notices

Micronics Computers, Inc.

The information contained in the LPX30WB system board manual has been carefully checked and is believed to be accurate. Micronics assumes no responsibility for any inaccuracies that may be contained in this document. Micronics makes no commitments to update or to keep the information in this manual at a current level when changes are made to the product.

Micronics reserves the right to make improvements to this document and/or product at any time and without notice.

All Rights Reserved. No part of this document may be photocopied, reproduced, translated, or reduced to any medium or machine form without prior, written consent from Micronics.

COPYRIGHT (C) 1994, 1995 Micronics Computers, Inc.

Portions of the Manual

Portions of this manual were copied (with permission) from Phoenix Technologies, Ltd. Copyright 1994. All rights reserved.

Trademarks

IBM is a registered trademark of International Business Machines. Microsoft, Microsoft Word, Windows are registered trademarks of Microsoft Corporation. Intel and PCI are registered trademarks of Intel Corporation. UNIX is a registered trademark of AT&T Corporation. Lotus 1-2-3 is a registered trademark of Lotus Development Corp. All other product names mentioned herein are used for identification purposes only and may be the trademarks of their respective companies.

Micronics Quick Installation

We know many experienced people prefer to read as little of the documentation as possible. If this sounds like you, here's the short form:

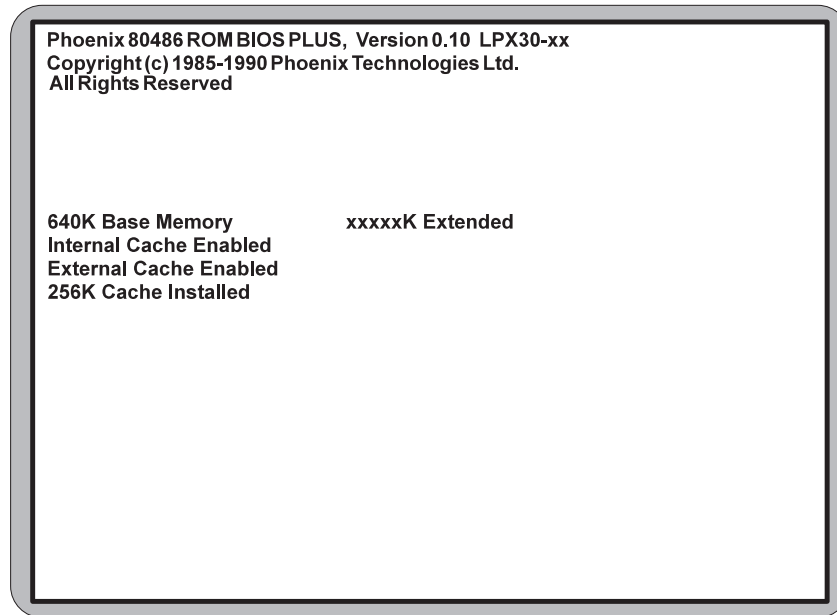
1. Ground yourself to prevent damaging static discharge, then remove the LPX30WB from its packaging.
2. Check the voltage of your CPU and install a Power Module, if necessary. See Chapter 2 for information on whether or not you will need a Power Module.

Warning:

This system board has been factory set to support 5.0V processors. If using a 3.3V or 4.0V processor, you must install a Power Module (Appendix E). Failure to install a Power Module could result in damage to the CPU.

3. Configure and verify the system board's jumper settings. (See Jumper Settings in Chapter 2)
4. Install the CPU and the system memory. (Chapter 3)
5. Install the motherboard into the system case and make all of the necessary case connections.
6. Install any peripherals (Chapter 3). Do not replace the computer cover until you have verified the system is working properly.

7. Turn the computer on and press the <Ctrl>, <Alt>, and <Esc> keys simultaneously after you see the screen below:



8. Set the time and date. Adjust the BIOS settings to match what is installed in your system. If installing an IDE drive, select the IDE device you wish to configure. Press <Enter> with AUTO CONFIG selected and the BIOS will automatically configure the drive for you. (See Chapter 4)
9. After you have configured the BIOS Settings, press the <Esc> key followed by the <F4> key to save the changes and exit. The system will reboot.
10. Install the video drivers provided with the system (Chapter 5).
11. The system is ready for use.

Contents

| | |
|---|----------------|
| Introduction | 1-1 |
| Features | 1-2 |
| Configuring the LPX30WB | 2-1 |
| Static Electricity | 2-1 |
| Office Environment | 2-1 |
| LPX30WB Components | 2-2 |
| Jumper Settings..... | 2-3 |
| Installing the LPX30WB, System Memory, CPUs and Peripherals..... | 3-1 |
| Installation of the LPX30WB | 3-2 |
| Tools Required | 3-2 |
| Equipment Required..... | 3-2 |
| System Memory..... | 3-3 |
| SIMMs Supported | 3-3 |
| Memory Configurations | 3-4 |
| Installing the SIMMs..... | 3-5 |
| Removing SIMMs | 3-5 |
| Installing a CPU..... | 3-5 |
| Installing 128K of Cache Memory | 3-6 |
| Installing 256K of Cache Memory | 3-7 |
| Video Memory- Upgrading to 1 MB | 3-8 |
| Video Memory- Upgrading to 2 MB | 3-9 |
| Installing an ISA Riser Card..... | 3-10 |
| Installing a VL-Bus Peripheral Card | 3-11 |
| Installing an ISA Peripheral Card | 3-12 |
| The BIOS Setup Utility | 4-1 |
| Configuration..... | 4-1 |
| Initial Boot Up | 4-1 |
| Setup | 4-2 |
| Running the Setup Procedure | 4-2 |

| | |
|--|------------|
| Setting the CMOS Parameters | 4-3 |
| Setting the CMOS Main Screen | 4-4 |
| System Time and Date | 4-4 |
| Diskette Drive A or B | 4-4 |
| Hard-Disk Drive 1-4 (IDE Drives Only) | 4-4 |
| Base Memory and Extended Memory | 4-4 |
| Video Card | 4-4 |
| System Speed | 4-4 |
| CPU Type | 4-4 |
| Cache | 4-5 |
| External Cache Mode | 4-5 |
| Setting the CMOS Extended Screen | 4-5 |
| System BIOS | 4-5 |
| Video BIOS | 4-6 |
| On Board Floppy | 4-6 |
| Primary IDE | 4-6 |
| Master Speed | 4-6 |
| Slave Speed | 4-6 |
| Secondary IDE | 4-6 |
| Serial Port 1 | 4-6 |
| Serial Port 2 | 4-6 |
| Parallel Port | 4-6 |
| Parallel Port Mode | 4-7 |
| Energy Saving Timer | 4-7 |
| Non-Cacheable Area | 4-7 |
| Keyboard | 4-7 |
| System Password | 4-7 |
| Setup Password | 4-8 |
| Re-Configuring Your Computer | 4-8 |
| Installing Video Drivers | 6-1 |
| Installation | 6-1 |
| Microsoft Windows 3.1 | 6-2 |
| SCREEN CONTROL | 6-3 |
| Advanced Features (Virtual Screen Control) | 6-5 |
| DPMS (Display Power Management SIGNALING) | 6-8 |
| Display Driver UNinstallation | 6-11 |
| Microsoft Windows NT | 6-12 |
| Microsoft Windows NT 3.1 | 6-12 |
| Microsoft Windows NT 3.5 | 6-12 |
| Utilities Installation | 6-13 |
| Installation Procedures | 6-13 |

| | |
|--|----------------|
| Utilities Summary | 6-14 |
| Driver Installation | 6-18 |
| Lotus 1-2-3, versions 2.1 and 2.2 | 6-18 |
| Symphony 2.x | 6-19 |
| GEM Desktop 3.xx | 6-20 |
| Ventura Publisher | 6-20 |
| WordPerfect | 6-21 |
| WordPerfect 5.1 | 6-21 |
| WordPerfect 6.0 | 6-22 |
| Microsoft Word for DOS | 6-24 |
| MS Word 5.0 | 6-24 |
| MS Word 5.5 | 6-24 |
| Panacea AutoCAD TurboDLD Driver | 6-25 |
| AutoCAD/386 Release 10 and 11 | 6-25 |
| AutoCAD/386 Release 12 | 6-26 |
| Quattro Pro 2.x for DOS | 6-28 |
| POST Messages | A-1 |
| Beep Codes | B-1 |
| Hard Disk Drive Types | C-1 |
| Specifications | D-1 |
| Environmental Specifications | D-2 |
| Temperature Range | D-2 |
| Relative Humidity | D-2 |
| Battery Disposal | D-3 |
| Installing a Power Module | E-1 |
| FCC Warning Statement | F-1 |
| Glossary | G-1 |
| Limited Warranty | W-1 |
| Non-Warranty Service | W-2 |

