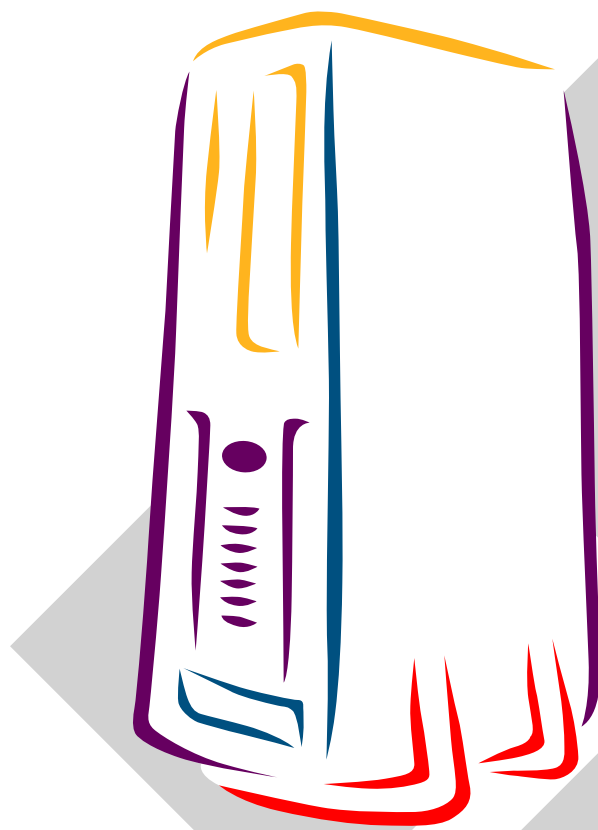




# CalypsoII

U S E R M A N U A L



## Chapter 2

### MAINBOARD INTRODUCTION

The CALYPSO II Micro LPX mainboard is a high-performance all-in-one computer mainboard based on Intel® 815 chipset. The CALYPSO II is designed for the Intel® Celeron™ processor/Pentium III(FC-PGA) processor for inexpensive business/personal desktop markets.

The Intel® 815 chipset integrates a Display Cache SDRAM controller that supports a 32-bit 133MHz SDRAM array for enhanced integrated 3D graphics performance. It is a highly-flexible chipset which is designed to extend the basic graphics/multimedia PC platform up to the mainstream performance desktop platform.

The Intel® 815 chipset implements the host address, control, and data bus interfaces within a single device, it takes advantage of the pipelined addressing capability of the processor to improve the overall system performance. In addition, the chipset also integrates a system memory controller that supports a 64-bit 100/133 MHz SDRAM array.

The Intel® 82801BA (ICH2) chipset is a highly integrated multifunctional I/O Controller Hub that provides the interface to the PCI Bus and integrates many of the functions needed in today's PC platforms. It communicates with the host controller over a dedicated hub interface and provides added flexibility in designing cost-effective system solutions.

## 2.1 Mainboard Features

### CPU

- Support Socket370 for Intel® Celeron™/Pentium III(FC-PGA) processor.
- Support 500MHz, 550MHz, 600MHz, 633MHz, 667MHz and up to 866MHz

### Chipset

- Intel® Solano chipset. (544 BGA)
  - Support PC100/133 memory bus
  - Support 66/100/133MHz FSB
- Intel® ICH2 chipset. (241 BGA)
  - AC'97 Controller Integrated
  - 2 full IDE channels, up to ATA100
  - Low pin count interface for SIO
  - Integrated 10/100Mbps Ethernet Controller
  - 2 Host USB controller, up to 4 USB ports

### MainMemory

- Support two 168-pin DIMM sockets.
- Support a 32 to 512MB using 16/64/128/256Mbit technology.

### Slots

- One 32-bit PCI Bus riser slot. (Extend to two PCI slots)
- Supports 3.3v/5v PCI bus Interface.

### On-BoardIDE

- An IDE controller on the ICH2 chipset provides IDE HDD/CD-ROM with PIO, Bus Master and Ultra DMA 66/100 operation modes.
- Can connect up to four IDE devices.

### Video

- Solano Chip Integrated
- 2D/3D Graphics

**Audio**

- ICH2 Chip Integrated
- AC'97 2.1 Compliant

**Network**

- Intel 82562 EM Platform LAN connect for 10Base-T and 100Base-TX
  - support basic AOL function (Alert on LAN)
- ICH2 chip integrated the 10/100Mbps Ethernet Controller

**TV-Out(Optional)**

- Chrontel CH7007
  - support S-Out/AV-Out

**1394 Controller (Optional)**

- 1394 PHY Controller
  - TI TSB41LV02 PHY Digital-to-Analog Transceiver
  - Support up to two 1394/1394A V2.0 compatible data channels
- 1394 Link Layer Controller
  - TI TSB12LV26 1394 Link Layer Host Controller
  - IEEE 1394, 1394 OHCI V1.0 & 1394A V2.0 compatible
  - Supports 100/200/400 Mbps High Throughput
  - 3.3V & 5V Operation for PCI-to 1394 Interface

**On-Board Peripherals**

- On-Board Peripherals include:
  - 1 floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
  - 1 serial port header (COM1) connected to rear COM port
  - 1 parallel port supports SPP/EPP/ECP mode
  - 2 USB rear port with 1 USB header for front side 2 USB ports
  - 1 IrDA connector for SIR.
  - 1 VGA port
  - 1 S-VIDEO for Video Output
  - 1 AV-composite jacks for video output
  - 1 Audio Port for Rear Panel
  - 3 Audio ports for Front Panel
  - 1 RJ45 LAN port
  - 2 IEEE 1394 ports

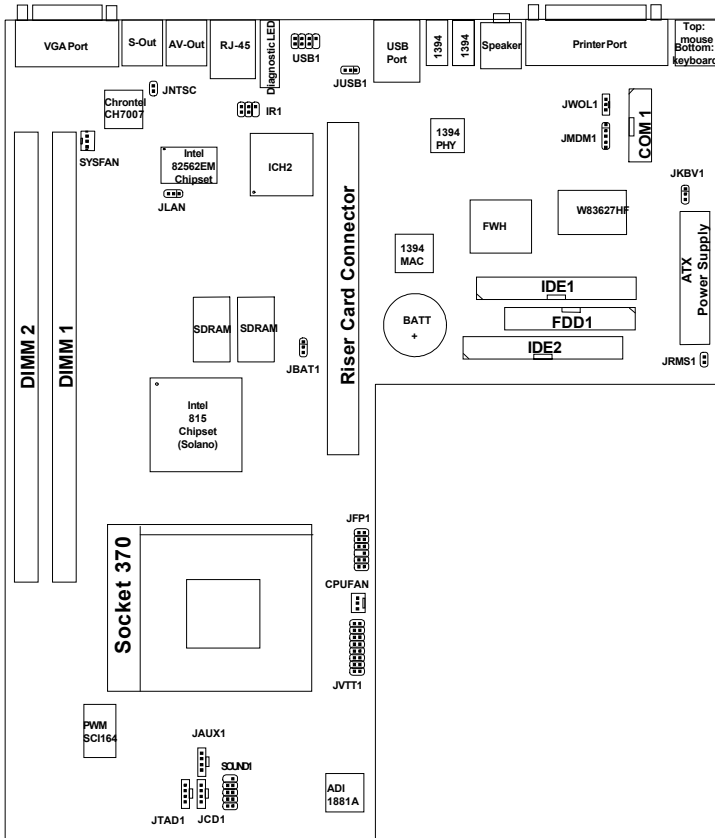
**BIOS**

- The mainboard BIOS provides “Plug & Play” BIOS which detects the peripheral devices and expansion cards of the board automatically.
- The mainboard provides a Desktop Management Interface(DMI) function which records your mainboard specifications.

**Mounting**

- 3 mounting holes.

**2.2 Mainboard Layout**



**CALYPSO II MICRO LPX Mainboard**

## Chapter 1

# CALYPSO II CHASSIS INSTALLATION GUIDE

## 1. Overview

The CALYPSO II is a specially designed chassis for MS-6351 mainboard. The chassis can accommodate one Floppy drive, Hard drive, and Standard CD-ROM. The chassis back panel support one VGA, Network(UTP), Speaker, Serial Port, LPT, PS/2® mouse and keyboard, IEEE 1394 ports, USB Ports, S/AV connector for TV-Out.

## 2. Installation Tools

Tools you need before you start:

- screw driver (phillips cross head type)
- long nose pliers
- anti-static wrist strap or glove
- user's guide.

## 3. Screw

Two types of screws are provided by the CALYPSO II: Flat head screw and Screw w/washer.



Pan Head

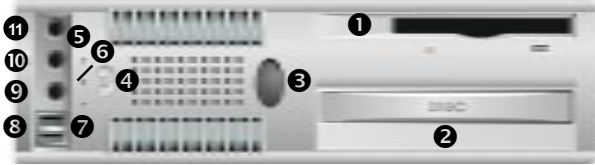
This type of screw is used to mount the mainboard into the Case.



Screw w/  
Washer

This type of screw is used to mount the Floppy Drive, CD-ROM Drive, and Hard Drive into the Case.

#### 4. Front Panel Overview



Front Panel (B)

- |    |                       |
|----|-----------------------|
| 1  | 3.5" Floppy Drive     |
| 2  | Standard CD-ROM Drive |
| 3  | IR Windows            |
| 4  | Power Switch          |
| 5  | Power & Suspend LED   |
| 6  | Hard Disk LED         |
| 7  | Network LED           |
| 8  | USB ports             |
| 9  | Earphone/Speaker Jack |
| 10 | Line-In Jack          |
| 11 | Microphone Jack       |

## 5. Installation Procedures

**The Cables used**



**The Mainboard**



**Front Panel Audio/  
USB peripheral with  
cables**



**Front Panel IR Peripheral  
with Cable**



**Riser Card**



**System Fan**



**1. Remove the screws and open the cover.**



**2. Release the lock to remove the Front Panel Bezel.**



- 3. Remove the HDD Bracket**  
- Unscrew the screw.  
Then, slide the HDD bracket to the left side to release.



- 4. HDD Bracket**



- 5. Unscrew the Rear I/O Shield. Then, remove the Rear I/O Shield.**



- 6. Insert the Motherboard.**



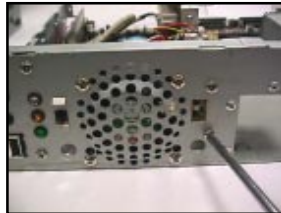
- 7. Align the Motherboard properly.**



- 8. Secure with screws.**



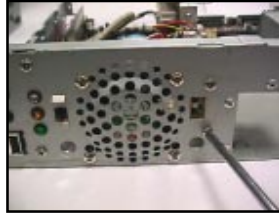
- 9. Connect the System Fan. Secure with screws. Connect the cable into the motherboard.**



- 10. Connect the Front Panel Audio/USB Peripheral. Secure with screws. Connect the necessary cable into the motherboard.**



- 11. Connect the Front Panel IR Peripheral. Secure with screws. Connect the necessary cable into the motherboard.**



- 12. Install the Processor. Then, install the Processor Fan.**



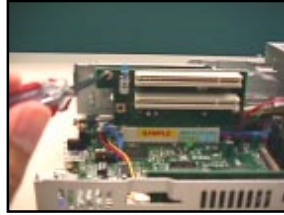
- 13. Install the DIMM module.**



- 14. Insert the Riser Card.**



- 15. Secure the Riser Card with screws.**



- 16. Reconnect the Rear I/O Shield. Secure with screws.**



- 17. Insert the CD-ROM Drive. Connect the CD-ROM Cable into the Motherboard.**



- 18. Connect the CD-ROM Audio Cable into the Motherboard.**



- 19. Secure the CD-ROM drive with screws.**



- 20. Insert the 3 1/2 Floppy Drive into the Chassis.**



- 21. Connect the Floppy Drive Ear.**



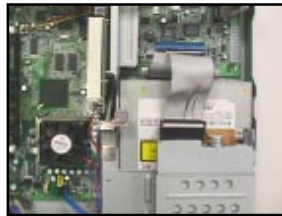
- 22. Secure the Floppy Drive Ear with screws.**



**23. Secure the Floppy Drive with screws.**



**24. Connect the Floppy Drive Cable into the Motherboard.**



**25. Secure the Hard Disk into the HDD bracket with screws. Reinstall the HDD Bracket.**



**26. Fit in the Power Supply. Connect the power connector into the Motherboard, CD-ROM, Floppy Drive, and Hard Disk.**



**27. Secure the Power Supply with screws.**



**28. Reconnect the Front Panel Bezel.**



**29. Close the Chassis Cover.**  
**- Secure with screws.**

