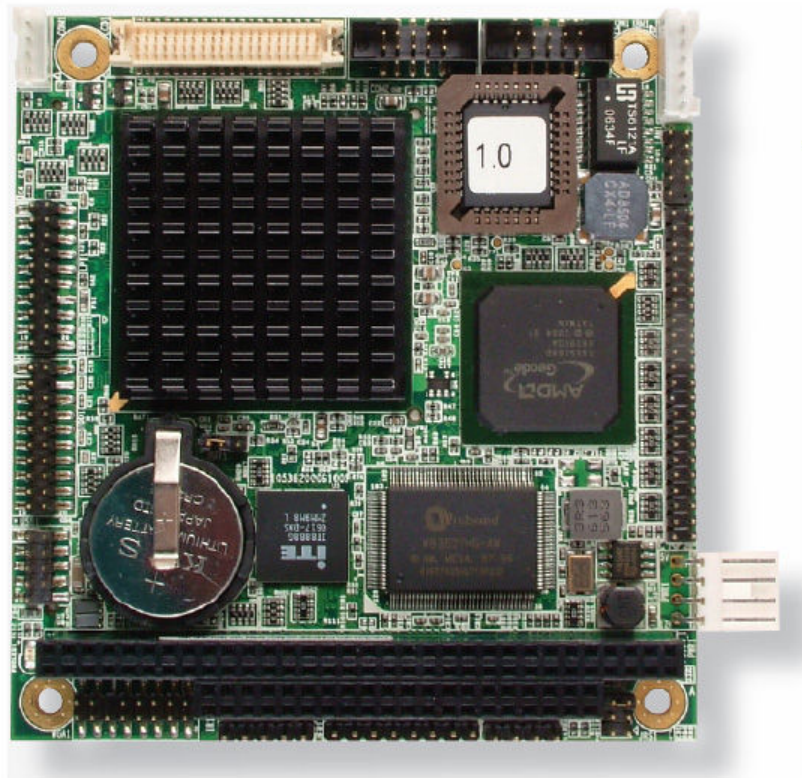




## Rhodeus

*Low Power AMD Geode™ LX800 PC/104 CPU Module with CRT/LCD, LAN and CF*

### User's Manual



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# Chapter 1

## Introduction

## 1.1 Copyright Notice

All Rights Reserved.

The information in this document is subject to change without prior notice in order to improve the reliability, design and function. It does not represent a commitment on the part of the manufacturer.

Under no circumstances will the manufacturer be liable for any direct, indirect, special, incidental, or consequential damages arising from the use or inability to use the product or documentation, even if advised of the possibility of such damages.

This document contains proprietary information protected by copyright.

All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic, or other means in any form without prior written permission of the manufacturer.

## 1.2 About User's Manual

This User's Manual is intended for experienced users and integrators with hardware knowledge of personal computers. If you are not sure about any description in this User's Manual, please consult your vendor before further handling.

## 1.3 Warning

Single Board Computers and their components contain very delicate Integrated Circuits (IC). To protect the Single Board Computer and its components against damage from static electricity, you should always follow the following precautions when handling it :

1. Disconnect your Single Board Computer from the power source when you want to work on the inside.
2. Hold the board by the edges and try not to touch the IC chips, leads or circuitry.
3. Use a grounded wrist strap when handling computer components.
4. Place components on a grounded antistatic pad or on the bag that came with the Single Board Computer, whenever components are separated from the system.

## **1.4 Replacing the lithium battery**

Incorrect replacement of the lithium battery may lead to a risk of explosion. The lithium battery must be replaced with an identical battery or a battery type recommended by the manufacturer.

Do not throw lithium batteries into the trashcan. It must be disposed of in accordance with local regulations concerning special waste.

## **1.5 Technical Support**

Please do not hesitate to e-mail our support team when you need assistance.  
[www.diamondsystems.com](http://www.diamondsystems.com)  
[support@diamondsystems.com](mailto:support@diamondsystems.com)

## **1.6 Warranty**

This product is warranted to be in good working order for a period of two years from the date of purchase. Should this product fail to be in good working order at any time during this period, we will, at our option, replace or repair it at no additional charge except as set forth in the following terms. This warranty does not apply to products damaged by misuse, modifications, accident or disaster.

Vendor assumes no liability for any damages, lost profits, lost savings or any other incidental or consequential damage resulting from the use, misuse of, or inability to use this product. Vendor will not be liable for any claim made by any other related party.

Vendors disclaim all other warranties, either expressed or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the hardware, the accompanying product's manual(s) and written materials, and any accompanying hardware. This limited warranty gives you specific legal rights.

Return authorization must be obtained from the vendor before returned merchandise will be accepted. Authorization can be obtained by calling or faxing the vendor and requesting a Return Merchandise Authorization (RMA) number. Returned goods should always be accompanied by a clear problem description.

## 1.7 Packing List



1 x Rhodeus Single Board Computer



1 x CD-ROM



1 x Quick Installation Guide

If any of the above items is damaged or missing, contact your vendor immediately.

## 1.8 Ordering Information

Rhodeus	PC/104 CPU module with AMD Geode™ LX800 (500MHz), 1 x SO-DIMM, CRT/LCD & LAN
Cable Kit (Optional)	1 x USB Cable 2 x COM Port Cable 1 x FDD Flat Cable 1 x IDE Cable 1 x Parallel Port Cable 1 x LAN Cable 1 x VGA Cable 1 x KB/MS Cable

## 1.9 Specification

Form Factor	PC/104 CPU module
Processor	AMD Geode™ LX800
Cache	64K L1 cache and 128K L2 cache
Chipset	AMD LX800 + CS5536
System Memory	1 x 200 pins DDR SO-DIMM up to 1GB SDRAM
VGA/ LCD Controller	AMD Geode LX series CPU integrated VGA controller with 2D Engine (Shared memory Max. 64MB)
Ethernet	Realtek 8100CL 10/100 base-T Ethernet
LCD	Supports 18/24-bit TTL up to 1280 x 1024
I/O Chips	W83627HG
BIOS	Phoenix-Award BIOS
IDE Interface	1 x Ultra DMA 33, support 2 IDE devices
Serial Port	2 x RS-232 ports COM2: RS-232/RS-422/RS-485 selectable
Parallel Port / Floppy	1 x SPP/EPP/ECP mode 1 x Floppy connector
KBMS	Standard PS/2 Keyboard and Mouse
Universal Serial Bus	2 x USB 2.0 ports
PCI to ISA bridge	ITE8888G
Expansion Bus	1 x PC/104 interface
Flash Disk	1 x Type II Compact Flash Disk Socket up to 4GB
Hardware Monitor	Integrated in W83627HG
RTC	AMD Geode CS5536 built-in RTC with lithium battery
Power Input Connector	1*4 pins power connector
Operation Temp.	-20oC to +70oC or -40oC to +85oC
Watchdog Timer	1 - 255 Level (Sec. or Min.)
Dimension (L x W)	96 x 90 mm (3.8" x 3.5")

































































































