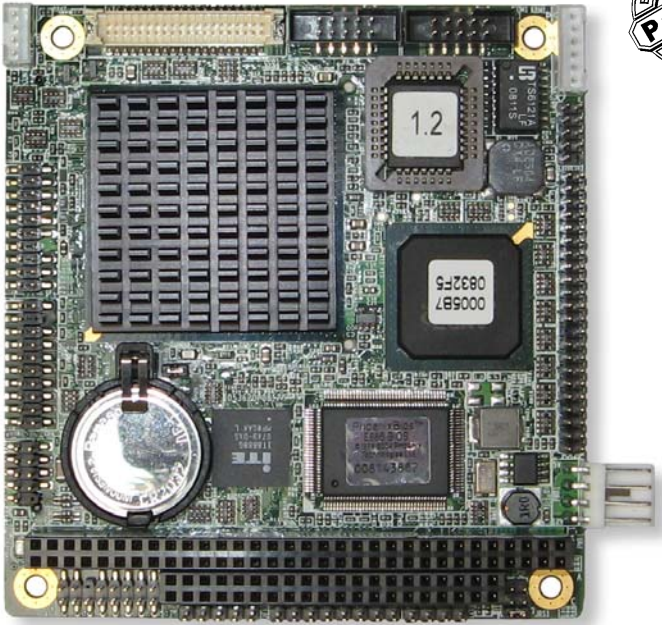


# RHODEUS-LC

## Low-Power 500MHz PC/104 SINGLE BOARD COMPUTER



- ◆ Low power, mid-range PC/104 expandable single board computer
- ◆ AMD Geode LX800 processor operating fan-less at 500MHz
- ◆ Up to 1GB DDR SO-DIMM DRAM
- ◆ Fully featured including support for:
  - Two USB 2.0 ports
  - Two RS-232 serial ports
  - 10/100Mbps Ethernet
  - IDE hard drive interface for two devices
  - CompactFlash Type II storage
  - VGA CRT or 1280 X 1024 LCD
- ◆ PC/104 ISA expansion
- ◆ -20°C to +70°C operating temperature

### DESCRIPTION

Rhodeus-LC offers mid-range computing power in a compact, low power consumption and low cost PC/104 single board computer. It is a superior choice for low-cost / high volume applications such as medical equipment, process control and instrumentation.

Rhodeus-LC utilizes the AMD Geode LX800 processor operating fan-less at 500MHz. The LX800 has an integrated VGA controller with 2D hardware acceleration and support for high resolution CRT and LCD displays. In addition the Realtek RTL8100CL Ethernet controller provides 10/100Mbps network connectivity with wake-on-LAN capability supported in BIOS. Up to 1GB of SDRAM system memory is provided via a standard 200-pin DDR SO-DIMM.

A full set of I/O ports is provided to support any application's requirements including Ethernet, UDMA-33 IDE, CompactFlash, floppy, parallel, PS/2 keyboard and mouse, and 2 USB 2.0 ports. The SBC also has two 16450-compatible serial ports: one is fixed RS-232 and the second is jumper configurable for RS-232, RS-422, and RS-485 protocols. The watchdog timer provides protection from software crashes and is programmable for delays between 1 and 255 seconds or minutes.

### MASS STORAGE

Multiple mass storage devices can be used with Rhodeus, including:

- UDMA-33 IDE hard drive (up to 2 devices)
- CompactFlash Type II (socket on bottom side)
- Floppy drive (up to 2 devices)

### CABLE KIT

A cable kit is available that provides all of the cables necessary to bring the on-board I/O out from the pin headers to industry standard connectors.

### CUSTOMIZATION / RUGGEDIZATION

Rhodeus-LC can be customized to meet your specific application needs. Minimum order quantities may apply.

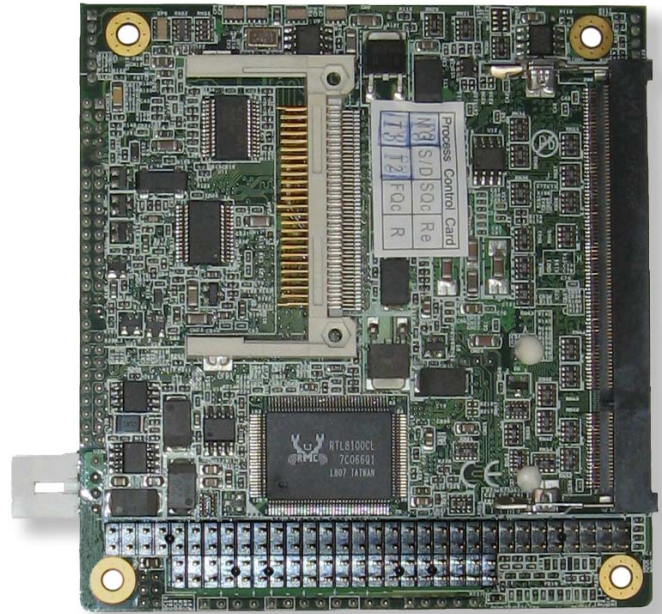
- Conformal coating: Acrylic, Urethane, or Silicone
- Hardwired configurations to replace jumpers
- Battery-less boot
- Custom splash screen at boot-up

## OPERATING SYSTEM SUPPORT

Rhodeus-LC supports Windows 2000, Windows XP, Windows CE 5.0 and Linux.

## SPECIFICATIONS

<b>Form Factor</b>	PC/104
<b>Processor</b>	AMD Geode™ LX800
<b>Cache</b>	64K L1 cache & 128K L2 cache
<b>Chipset</b>	CS5536
<b>I/O Chip</b>	W83627HG
<b>PCI to ISA bridge</b>	ITE8888G
<b>System Memory</b>	1 x 200 pins DDR SO-DIMM up to 1GB SDRAM
<b>VGA/ LCD Controller</b>	AMD Geode LX series CPU integrated VGA controller with 2D engine (shared memory max, 64MB)
<b>LCD</b>	Supports 18/24-bit TTL up to 1280 x 1024
<b>Ethernet</b>	Realtek 8100CL 10/100 Base-T Ethernet
<b>BIOS</b>	Phoenix-Award BIOS
<b>IDE Interface</b>	1 x Ultra DMA 33, supports 2 IDE devices
<b>Serial Ports</b>	2 x RS-232 ports COM1: RS-232 COM2: RS-232/RS-422/RS-485 selectable
<b>Parallel Port</b>	1 x SPP/EPP/ECP mode
<b>Floppy Port</b>	1x Floppy connector
<b>Keyboard / Mouse</b>	Standard PS/2 Keyboard and Mouse
<b>Universal Serial Bus</b>	2 x USB 2.0 ports
<b>On-Board Mass Storage</b>	1 x Type II Compact flashdisk socket up to 4GB
<b>Hardware Monitor</b>	Integrated in W83627HG
<b>Real-Time Clock</b>	AMD Geode CS5536 built-in RTC with lithium battery
<b>Watchdog Timer</b>	1 - 255 Levels (Sec. or Min.)
<b>Expansion Bus</b>	PC/104 (ISA) interface
<b>Power Input</b>	+5V +/-5% @ 2.0A typical
<b>Power Consumption</b>	10W typical
<b>Operating Temp.</b>	-20°C to +70°C
<b>Dimension (L x W)</b>	96 x 90 mm (3.775" x 3.550")



Bottom view of Rhodeus-LC SBC showing SO-DIMM memory socket and CompactFlash socket

## ORDERING INFORMATION

Part Number	Description
<b>RDS800-LC</b>	Rhodeus SBC, 500MHz LX800, 0MB RAM
<b>MEM-256-04</b>	256MB DDR SO-DIMM DRAM
<b>MEM-512-04</b>	512MB DDR SO-DIMM DRAM
<b>MEM-1024-04</b>	1024MB DDR SO-DIMM DRAM
<b>C-RDS-KIT</b>	Rhodeus Cable Kit

## FOR MORE INFORMATION

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