

PFM-540I

AMD® Geode

LX 800 Processor

AMD LX 800 +CS 5536

RTL8139DL for 10/100Mbps

18/24-bit TFT LCD Panel

2 COM, 4 USB, 1 IrDA

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Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- 9681540I00
Cable Kit for PFM-540I
 - 1701160201 VGA cable x 1
 - 1701260201 Printer Port Cable x 1
 - 1709100201 USB Cable x 1
 - 1700100200 LAN Cable x 1
 - 1700060152 Keyboard & Mouse Cable x 1
 - 1701440350 44-pin IDE Cable x 1
 - 1701100207 RS-232 Cable x 2
 - 1701340703 Floppy Disk Cable x 1
- 9657666600
Jumper Cap
- Quick Installation Guide
- Utility CD
- PFM-540I

If any of these items should be missing or damaged, please contact your distributor or sales representative immediately.

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Chapter

1

**General
Information**

1.1 Introduction

We are a leading company in embedded boards manufacturing with a full range of PC/104 CPU Modules, launches an economic embedded PC/104 CPU Module-PFM-540I.

Its compact size and rich functionality ensures the most cost effective and compatible module to coincide with your existing system planning devices.

PFM-540I adopts an AMD Geode LX800 processor that is more cost effective compared to other PC/104 CPU modules on the market. This model supports DDR 333 SODIMM Memory up to 1GB (DDR 400 optional). Although PFM-540I is a small board, it offers the full functions customers demand. The chipset of PFM-540I deploys AMD LX800 and CS5536 that makes this board achieve high performance. It features one 10/100Base-TX Ethernet port, four USB 2.0 ports, two serial ports, one parallel port, IR interface, watchdog timer and includes PC/104 expansion.

PFM-540I is a RoHS compliant product that is fanless and fully supports ISA and CFD. For Operating Systems, it supports regular embedded OS, such as WinCE, and WinXP Embedded, Windows XP Professional for easy compatibility with customers' existing OS systems.

1.2 Features

- AMD Geode LX800 (500MHz) Processor
- Supports Onboard DDR SDRAM, Max. 1GB for DDR333 and 512MB for DDR400
- Supports 18/24-bit TFT LCD panel
- Supports CFD Type I, ATA-33
- Supports 4 USB 2.0 ports, 2 COM ports and 1 Parallel port
- Supports one 10/100Base-TX Ethernet
- Supports +5V/AT only
- Lead-free & ROHS Compliance

1.3 Specifications

System

- Processor AMD Geode LX 800 (500MHz)
Processor
- System Memory 200-pin Onboard DDR SDRAM
SODIMM x 1, Max. 1GB for DDR333
and 512MB for DDR 400 (Please refer
to the Quick Installation Guide **2.26**
DDR1 SODIMM Slot for details)
- Chipset AMD LX 800 + CS5536
- I/O Chipset IT8712F-A
- Ethernet Realtek RTL8139DL, 10/100Mbps,
RJ-45 x 1
- BIOS AWARD 512KB Flash ROM
- Watchdog Timer IT8712F-A
- RTC IT8712F-A
- Solid Storage Disk CompactFlash™ Type I x 1
- Expansion Interface PC/104 x 1
- Power Requirement +5V/AT
- Board Size 3.55”(L) x 3.775”(W) (90mm x 96mm)
- Operating Temperature 32°F~ 140°F (0°C ~ 60°C)

Display

- Chipset AMD LX 800
- Memory Shared system memory up to 254 MB
- Resolution Up to 1920 x 1440 @ 32bpp for CRT
Up to 1024 x 768 @ 24bpp for LCD
- LCD Interface Up to 18/24-bit TTL TFT LCD

I/O

- MIO EIDE x 1 (UDMA-33 x 1); Floppy Disk Drive x 1; Keyboard & Mouse x 1; RS-232 x 1; RS-232/422/485 x 1; Parallel x 1
- IDE Interface ATA-33 x 1 channel, 44-pin header
- USB Four USB 2.0 Ports—Two 5x2 pin headers support four USB ports
- IR Interface IrDA

Chapter

2

Quick Installation Guide

Notice:

The Quick Installation Guide is derived from Chapter 2 of user manual. For other chapters and further installation instructions, please refer to the user manual CD-ROM that came with the product.



2.1 Safety Precautions

Warning!



Always completely disconnect the power cord from your board whenever you are working on it. Do not make connections while the power is on, because a sudden rush of power can damage sensitive electronic components.

Caution!



Always ground yourself to remove any static charge before touching the board. Modern electronic devices are very sensitive to static electric charges. Use a grounding wrist strap at all times. Place all electronic components on a static-dissipative surface or in a static-shielded bag when they are not in the chassis

2.2 Location of Connectors and Jumpers

Component Side



