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PFM-540I



Onboard AMD Geode™ LX800 Processor

Fanless, 0 ~ 60°C (32 ~ 140°F) operation

Wide Temp version -40 ~ 85 °C Optional

AMD LX800 + CS5536 Chipset

DDR333 SODIMM Memory Socket upto 1GB

10/100 Base-TX Ethernet

CRT & Up to 24-bit LCD support

1x EIDE, 1x Compact Flash

4x USB 2.0, 2x or 4x COM, 1x Parallel

PC/104 Expansion

True PC/104 Dimensions & Interface

Low power, +5V only operation, AT Power Type

The PFM-540I is a single board computer based on the AMD Geode LX 800 processor. This low power PC/104 module is versatile product featuring four USB 2.0 ports and two Serial ports. The PFM-540I supports CRT and 18/24-bit TTL LCD panels, PC/104 expansion, and supports up to 1GB of DDR SDRAM. With a DDR memory capacity up to 1GB, the PFM-540I can run the latest operating systems, including Linux, RTAI Real-Time Linux, Microsoft Windows XP/XPE, WinCE, and DOS 6.22. A CompactFlash socket supports Type I/II CompactFlash Cards, which can be used to eliminate the use of fragile hard disks, increasing reliability in harsh environments. Four USB 2.0 ports are available as well as one parallel port (SPP/EPP/ECP modes) and 2 high speed serial ports (RS-232 and RS-232/422/485). Unlike other high-end PC/104 SBCs, the PFM-540I maintains the true PC/104 standard and does not require “wings”. The PFM-540I gives developers a low power, high performing platform that can fit into the tightest places. PC/104 expansion allows features to be quickly added

using any of EMAC's many PC/104 expansion modules. With its industrial grade reliability, the PFM-540I can operate continuously at temperatures up to 140º F (60º C) without a fan. A wider temperature version (-40º to 85ºC) is an option. The numerous features provide an ideal price/performance solution for high-end, low cost commercial and industrial applications where stability and reliability (no moving parts) are essential. **Flash Disk and Memory not included.**

Specifications

SBC Type:

Single Board Computers < 1 GHz

Processor

Processor:

AMD Geode LX800 Fanless

Clock Speed:

500 MHz

Real Time Clock:

Processor Misc.:

Chipset: AMD LX800 + CS5536

Memory

BIOS/ Bootloader:

Phoenix-Award PnP Flash BIOS

Primary Flash:

1x CompactFlash™ socket supports Type I

Memory Misc.:

SDRAM Memory: 1x 200-pin SODIMM Socket accomodates up to 1GB DDR SDRAM

Primary I/O

Disk Interface:

1x 44-pin Ultra DMA 33

Video Out:

AMD Geode LX800 integrated VGA graphic controller with 2d engine.

Ethernet:

10/100 Base-T Ethernet

USB:

4x USB 2.0

Serial Ports:

2x High Speed COM

1x RS-232

1x RS-232/422/485

1x Parallel SPP/EPP/ECP

Watchdog:

Primary I/O Misc.:

Floppy Interface: 1x floppy disk drive connector

10/100 Base-T Ethernet: PFM-540i-A -Realtek RTL8139DL

10/100 Base-T Ethernet: PFM-540i-B- Intel 82551ER

Serial Ports:

- 540I-A: 2x High Speed COM, 1x RS-232, 1x RS-232/422/485
- 540I-B: 4x High Speed COM, 3x RS-232, 1x RS-232/422/485

Secondary I/O

LPT Port:

Keypad:

PS/2:

Analog on

A/D:

D/A:

Dimensions

Dimensions:

3.5 × 3.8 in

Weight:

110 g

Form Factor:

PC/104

Power Requirements

Typical Current:

1.9 A

Typical Voltage:

5 V

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

90%

Environmental Misc.:

Optional Temperature: -40 to 175°F (-40 to 85°C)

Pricing

PFM-540I-A

AMD LX800 PC/104 SBC W/ 2x COM, 1x Ethernet

$269.00

Parent Product:

PFM-540I-B

AMD LX800 PC/104 SBC W/ 4x COM, 1x Ethernet (Partial Cable Kit)

$999.00

Parent Product:

PFM-540I-BC

AMD LX800 PC/104 SBC w/ 4x COM, 1x Ethernet (Full Cable Kit)

$999.00

Parent Product:

Memory:

SKU: PER-RAM-00099-R

PER-RAM-00099-R

$0.00
Product State:
Spec Ready
RAM types:
DDR SODIMM
Variations:
SODIMM 200P PC2700 DDR 512MB
Status: Active
Call for Price:

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