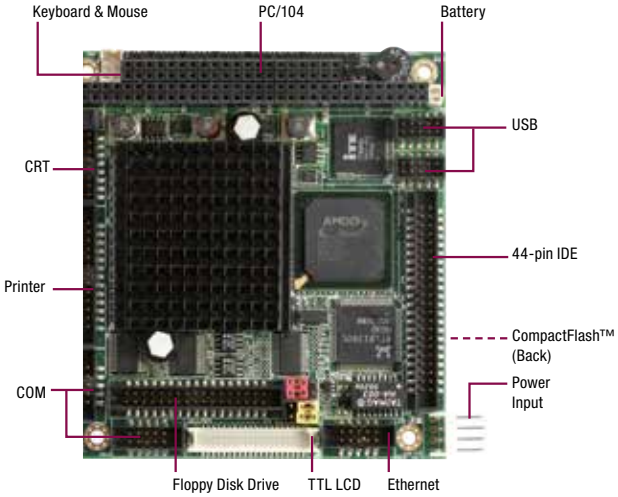
PFM-540I Rev. A

PC/104 Module with AMD Geode™ LX Processor



Features

- Onboard AMD Geode™ LX800 Processor
- AMD Geode™ LX800 + CS5536
- DDR 333 MHz SODIMM x 1, Up to 1 GB or DDR 400 MHz SODIMM x 1, Up to 512 MB
- 10/100Base-TX Ethernet x 1
- 18/24-bit TTL LCD Support
- EIDE x 1, CompactFlash™ x 1
- USB2.0 x 4, COM x 2, and Parallel x 1
- PC/104 Expansion
- +5V Only Operation, AT Power Type
- Low Power Consumption

Specifications

System	
Form Factor	PC/104
Processor	Onboard AMD Geode™ LX800 (500 MHz) Processor
System Memory	200-pin DDR 333 MHz SODIMM x 1, up to 512 MB (Only supports memory chips on upper side, not both sides)
Chipset	AMD Geode™ LX800 + CS5536
I/O Chipset	ITE IT8712F-A
Ethernet	Realtek RTL 8139DL, 10/100Base-TX x 1
BIOS	Award 512 KB FLASH ROM
Watchdog Timer	Generates a time-out system reset
H/W Status Monitoring	Supports power supply voltages and temperature monitoring
Expansion Interface	PC/104 socket x 1
Power Requirement	+5V/AT
Power Consumption (Typical)	AMD Geode™ LX800 500 MHz, DDR 400 512 MB 1.53A@+5V
Battery	Lithium battery
Board Size	3.55" (L) x 3.775" (W) (90mm x 96mm)
Gross Weight	0.25 lb (0.11 kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	100,000
Display	Supports CRT/ LCD simultaneous display
Chipset	AMD Geode™ LX800
Memory	Shared system memory up to 254 MB
Resolutions	Up to 1600 x 1200 @ 32bpp for CRT Up to 1024 x 768 @ 24bpp for LCD
LCD Interface	18/24-bit TTL TFT LCD
I/O	
Storage	EIDE x 1 (UDMA 33 for one device), Type 1 CompactFlash™ x 1, Floppy Disk Drive x 1
Serial Port	RS-232 x 1, RS-232/422/485 x 1
Parallel Port	SPP/ EPP/ ECP mode
USB	USB2.0 x 4
PS/2 Port	Keyboard + Mouse x 1
IrDA	One IrDA Tx/Rx header

Packing List

- **9681540I00**
  Cable Kit for PFM-540I Rev.A

1701100207	RS-232 Cable x 2
1701440350	44-pin IDE Cable x 1
1700060152	Keyboard & Mouse Cable x 1
1700100200	LAN Cable x 1
1709100201	USB Cable x 2
1701260201	Printer Port Cable x 1
1700160201	VGA Cable, Length 20cm

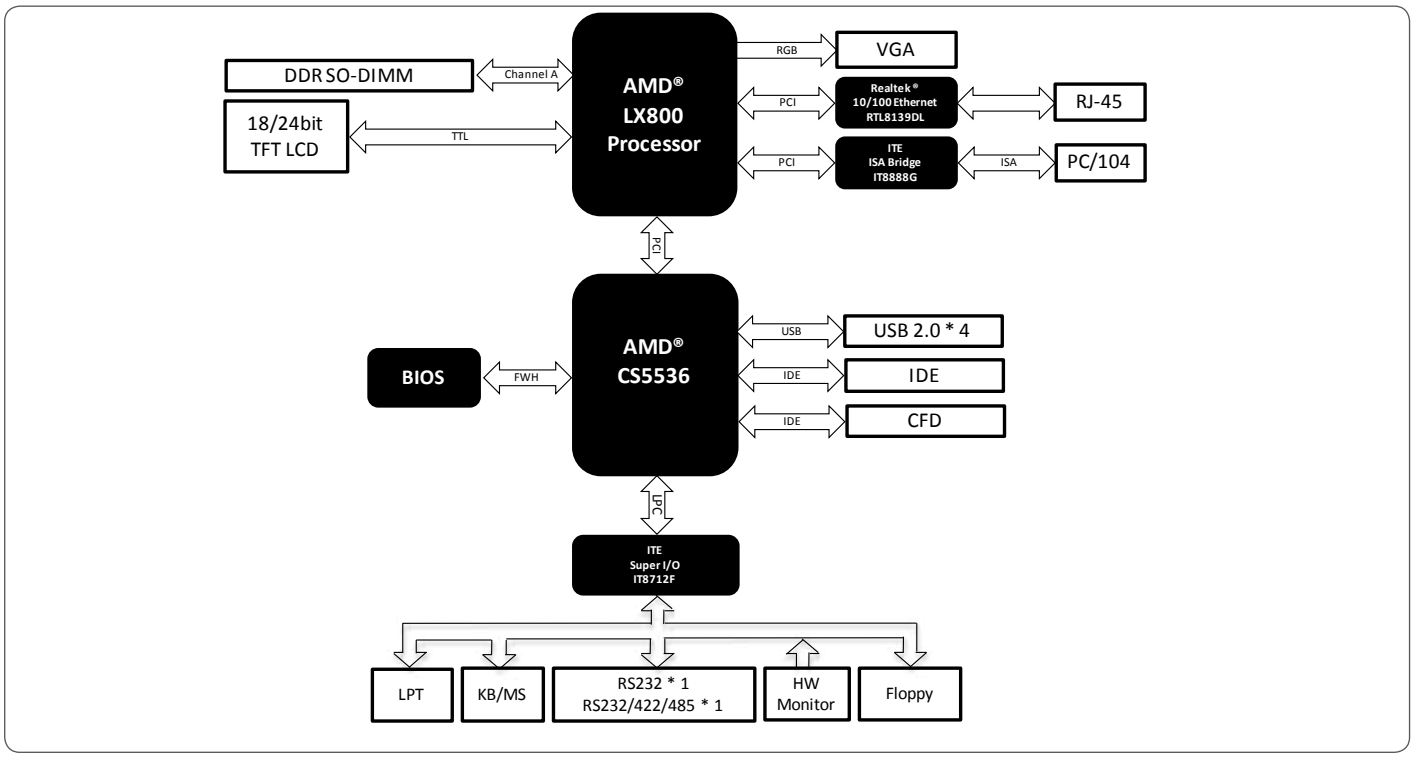
- **Product CD**
- **PFM-540I Rev. A**

Optional Accessories

- **PCM-3538T-A10**
  TTL to LVDS Transmitter Module Rev. A1.0

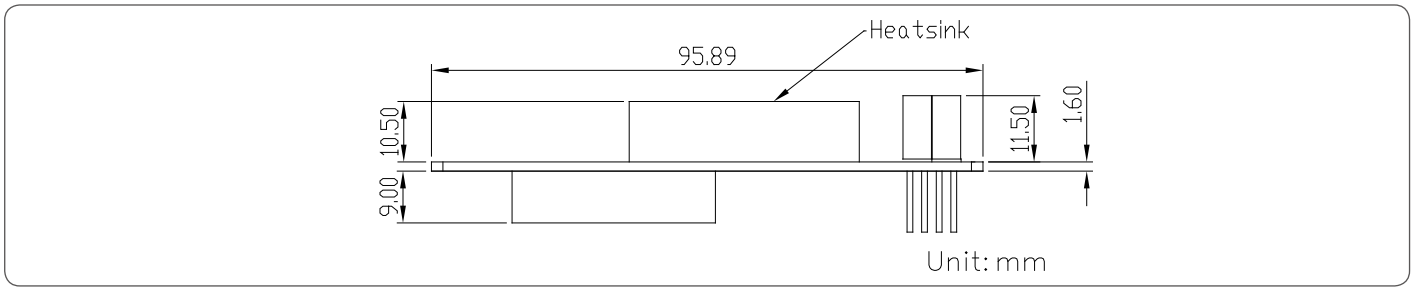
PFM-540I Rev. A

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	Fan/ Fanless	Storage	Display	LVDS	LAN	USB	RS-232	RS-232/422/485	Parallel	Expansion Slot	Power	Temp.
TF-PFM-540I-A10	AMD Geode™ LX800	SODIMM	Fanless	EIDE x 1, CompactFlash™ x 1 FDD x 1	CRT + TTL	18/24b, 1CH	FE x 1	4	1	1	1	PC/104	+5V/AT	0°C ~ 60°C