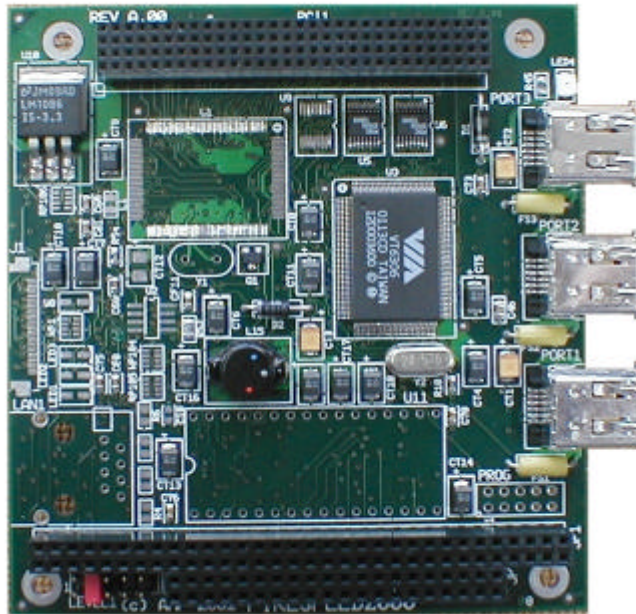




FireSpeed2000 IEEE-1394 FireWire Controller for PC/104+



General Description

The **FireSpeed2000** is a high performance Controller providing 3 serial ports conforming to the IEEE-1394 OHCI specification - popularly known as FireWire. The FireSpeed2000 provides an ideal interface for attaching high speed Audio, Video and Storage peripherals to an embedded system. Automatic detection and configuration of devices (without the need for on-board jumpers) ensures robust system operations and high reliability. The FireSpeed2000 provides a distinct advantage over other communications and interfacing controllers by allowing multiple devices to be attached simultaneously on the high speed serial bus. Three serial ports are provided enabling up to 63 devices to be connected with cable lengths of over 4M. The FireSpeed2000 is supported by a suite of drivers for Windows98/NT/CE/2000 and Linux. The FireSpeed2000 is an ideal solution for solid-state video recording, machine vision, digital image capture and processing and hot-pluggable storage peripheral interfacing.

Features

- Meets IEEE-1394 Fire Wire Standard
- Three high speed Serial Interface
- Speeds of 100/200/400 MBits/sec
- Link up to 63 devices together
- Video/Audio/Mass Storage auto-detection
- Hot pluggable connections
- Multiple FireSpeed2000 cards per system
- High Performance PC/104+ Bus Master
- Drivers for Win95/98/NT/2000, Linux
- Compact 3.6 x 3.8in PC/104+ form factor

Applications

- Solid-State Digital Video Recorder
- Digital Camera Interfacing
- Hot-pluggable Disk Storage
- Portable and mobile data storage
- Remote Video Surveillance
- Medical and Industrial imaging
- Robotic systems and OCR
- Disc based Video Recorder
- Video Acquisition and Analysis
- 400MBit "Ethernet" for Cluster Computing



FireSpeed2000

IEEE-1394 FireWire Controller for PC/104+

PC104+ Bus Interface

Compliant with PCI Rev 2.1
132MBytes/sec bandwidth at 33.33 MHz bus speed
PCI Bus Master supporting DMA
PCI Slave for access to internal registers
PCI Power Management compliant

IEEE 1394 Link Layer

Performs function of all IEEE-1394 Cycle Master
IEEE-1394 transfer rates of 100/200/400Mbits/sec

Physical Layer Interface

Supports provisions for IEEE-1394 high performance serial bus
Up to 3 High Speed Serial ports supported
Data rates of 100, 200 or 400Mbits/sec
Up to 63 devices on the IEEE-1394 bus
Hot-pluggable attachment of devices
Cable length up to 4.2M supported at up to 400Mbits/sec rate
Standard 6-way IEEE-1394 Connectors for self-powered or non-powered devices

Miscellaneous

Single +5V at less than 600mA
Routes +12V from PC/104+ bus to power the FireWire Cable
Operating Temp of 0 to 60degC (Extended Temp option)
Standard 3.6 x 3.8in PC/104+ form factor

Software

Drivers for Windows95/98/NT/2000, Linux
Sample video capture application in C/C++ source code
Other Operating Systems such as QNX, PharLap, pSOS, etc
can be supported on request

Ordering Information

Order as FireSpeed2000